Independent Statistics & Analysis
U.S. Energy Information Administration

# Electric Power Monthly
## with Data for April 2018

June 2018

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This issue of the *Electric Power Monthly* includes a new Chapter 8 with data for the Commonwealth of Puerto Rico. The chapter currently includes data on electricity sales to ultimate consumers. Coverage will eventually be expanded to include power plant characteristics, operations, and generation data. Note that the data for Puerto Rico is not included in the other tables in the EPM, which continue to show data for the 50 states and the District of Columbia.

Also, Table 7.1 electicity exports and imports to/from Mexico for 2016 were revised from the May 2018 issue.

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# Preface

The Electric Power Monthly (EPM) presents monthly electricity statistics for a wide audience including Congress, Federal and State agencies, the electric power industry, and the general public. The purpose of this publication is to provide energy decision makers with accurate and timely information that may be used in forming various perspectives on electric issues that lie ahead. In order to provide an integrated view of the electric power industry, data in this report have been separated into two major categories: electric power sector and combined heat and power producers. The U.S. Energy Information Administration (EIA) collected the information in this report to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93 275) as amended.

## Background

The Office of Electricity, Renewables & Uranium Statistics, U.S. EIA, U.S. Department of Energy, prepares the EPM. This publication provides monthly statistics at the State (lowest level of aggregation), Census Division, and U.S. levels for net generation, fossil fuel consumption and stocks, cost, quantity, and quality of fossil fuels received, sales of electricity to ultimate consumers, associated revenue, and average price of electricity sold. In addition, the report contains rolling 12-month totals in the national overviews, as appropriate.

## Data sources

The EPM contains information from the following data sources: Form EIA-923, "Power Plant Operations Report;" Form EIA-826, "Monthly Electric Sales and Revenue With State Distributions Report;" Form EIA-860, "Annual Electric Generator Report;" Form EIA-860M, "Monthly Update to the Annual Electric Generator Report;" and Form EIA-861, "Annual Electric Power Industry Report." Forms and their instructions may be obtained from: http://www.eia.gov/survey/#electricity. A detailed description of these forms and associated algorithms are found in Appendix C, “Technical Notes.”

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| Net Generation and Consumption of Fuels for April | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total (All Sectors) | | | Electric Power Sector | | | | Commercial | | Industrial | | Residential | |
| | | | | | Electric Utilities | | Independent Power Producers | | | | | | | |
| Fuel | Facility Type | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Net Generation (Thousand Megawatthours) | | | | | | | | | | | | | | |
| Coal | Utility Scale Facilities | 73,489 | 81,533 | -9.9% | 55,421 | 59,111 | 17,448 | 21,810 | 21 | 19 | 599 | 593 | 0 | 0 |
| Petroleum Liquids | Utility Scale Facilities | 864 | 884 | -2.2% | 632 | 665 | 190 | 179 | 9 | 6 | 33 | 34 | 0 | 0 |
| Petroleum Coke | Utility Scale Facilities | 582 | 404 | 44.0% | 477 | 260 | 39 | 95 | 0 | 0 | 65 | 48 | 0 | 0 |
| Natural Gas | Utility Scale Facilities | 100,004 | 86,178 | 16.0% | 47,442 | 41,953 | 44,759 | 36,522 | 591 | 532 | 7,211 | 7,171 | 0 | 0 |
| Other Gas | Utility Scale Facilities | 976 | 1,157 | -15.6% | 28 | 19 | 306 | 281 | 0 | 0 | 642 | 857 | 0 | 0 |
| Nuclear | Utility Scale Facilities | 59,087 | 56,743 | 4.1% | 30,534 | 30,217 | 28,553 | 26,526 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydroelectric Conventional | Utility Scale Facilities | 27,615 | 29,320 | -5.8% | 25,374 | 27,067 | 2,095 | 2,103 | NM | NM | 121 | 124 | 0 | 0 |
| Renewable Sources Excluding Hydroelectric | Utility Scale Facilities | 38,952 | 36,928 | 5.5% | 4,407 | 4,489 | 31,933 | 29,820 | 273 | 264 | 2,339 | 2,356 | 0 | 0 |
| ... Wind | Utility Scale Facilities | 26,757 | 25,753 | 3.9% | 3,482 | 3,743 | 23,251 | 21,988 | 15 | 15 | 8 | 7 | 0 | 0 |
| ... Solar Thermal and Photovoltaic | Utility Scale Facilities | 6,111 | 4,774 | 28.0% | 520 | 303 | 5,525 | 4,418 | 58 | 50 | 8 | NM | 0 | 0 |
| ... Wood and Wood-Derived Fuels | Utility Scale Facilities | 3,163 | 3,373 | -6.2% | 214 | 234 | 706 | 872 | 2 | 5 | 2,241 | 2,261 | 0 | 0 |
| ... Other Biomass | Utility Scale Facilities | 1,709 | 1,671 | 2.3% | 116 | 117 | 1,315 | 1,276 | 197 | 194 | 82 | 85 | 0 | 0 |
| ... Geothermal | Utility Scale Facilities | 1,212 | 1,357 | -10.7% | 76 | 92 | 1,136 | 1,266 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydroelectric Pumped Storage | Utility Scale Facilities | -377 | -439 | -14.1% | -295 | -368 | -82 | -71 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Energy Sources | Utility Scale Facilities | 1,038 | 1,044 | -0.6% | 37 | 38 | 534 | 506 | 82 | 87 | 384 | 413 | 0 | 0 |
| All Energy Sources | Utility Scale Facilities | 302,229 | 293,752 | 2.9% | 164,058 | 163,451 | 125,774 | 117,771 | 1,003 | 934 | 11,394 | 11,596 | 0 | 0 |
| | | | | | | | | | | | | | | |
| Estimated Small Scale Solar Photovoltaic | Small Scale Facilities | 2,721 | 2,211 | 23.1% | 0 | 0 | 0 | 0 | 863 | 700 | 263 | 227 | 1,596 | 1,284 |
| Estimated Total Solar Photovoltaic | All Facilities | 8,518 | 6,674 | 27.6% | 512 | 303 | 5,219 | 4,108 | 921 | 750 | 270 | NM | 1,596 | 1,284 |
| Estimated Total Solar | All Facilities | 8,833 | 6,985 | 26.5% | 520 | 303 | 5,525 | 4,418 | 921 | 750 | 270 | NM | 1,596 | 1,284 |
| Consumption of Fossil Fuels for Electricity Generation | | | | | | | | | | | | | | |
| Coal (1000 tons) | Utility Scale Facilities | 40,607 | 44,216 | -8.2% | 30,411 | 31,501 | 9,973 | 12,507 | 6 | 5 | 217 | 202 | 0 | 0 |
| Petroleum Liquids (1000 barrels) | Utility Scale Facilities | 1,518 | 1,519 | -0.1% | 1,128 | 1,188 | 337 | 285 | 16 | 10 | 36 | 36 | 0 | 0 |
| Petroleum Coke (1000 tons) | Utility Scale Facilities | 224 | 153 | 46.4% | 193 | 110 | 14 | 29 | 0 | 0 | 16 | 13 | 0 | 0 |
| Natural Gas (1000 Mcf) | Utility Scale Facilities | 724,622 | 640,489 | 13.1% | 362,210 | 326,706 | 315,874 | 268,102 | 3,508 | 3,158 | 43,029 | 42,523 | 0 | 0 |
| Consumption of Fossil Fuels for Useful Thermal Output | | | | | | | | | | | | | | |
| Coal (1000 tons) | Utility Scale Facilities | 1,132 | 1,216 | -6.9% | 183 | 212 | 85 | 103 | 39 | 35 | 826 | 866 | 0 | 0 |
| Petroleum Liquids (1000 barrels) | Utility Scale Facilities | 140 | 137 | 2.2% | 4 | 3 | 13 | 11 | 22 | 16 | 102 | 107 | 0 | 0 |
| Petroleum Coke (1000 tons) | Utility Scale Facilities | 72 | 70 | 3.8% | 1 | 0 | 10 | 10 | 1 | 1 | 61 | 59 | 0 | 0 |
| Natural Gas (1000 Mcf) | Utility Scale Facilities | 95,206 | 90,079 | 5.7% | 3,041 | 3,049 | 26,992 | 26,033 | 6,163 | 5,446 | 59,010 | 55,552 | 0 | 0 |
| Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output | | | | | | | | | | | | | | |
| Coal (1000 tons) | Utility Scale Facilities | 41,740 | 45,432 | -8.1% | 30,593 | 31,713 | 10,058 | 12,611 | 45 | 40 | 1,043 | 1,068 | 0 | 0 |
| Petroleum Liquids (1000 barrels) | Utility Scale Facilities | 1,658 | 1,656 | 0.1% | 1,132 | 1,190 | 350 | 296 | 38 | 26 | 138 | 143 | 0 | 0 |
| Petroleum Coke (1000 tons) | Utility Scale Facilities | 296 | 222 | 33.1% | 195 | 110 | 24 | 39 | 1 | 1 | 76 | 72 | 0 | 0 |
| Natural Gas (1000 Mcf) | Utility Scale Facilities | 819,828 | 730,568 | 12.2% | 365,251 | 329,755 | 342,866 | 294,135 | 9,671 | 8,603 | 102,039 | 98,075 | 0 | 0 |
| Fuel Stocks (end-of-month) | | | | | | | | | | | | | | |
| Coal (1000 tons) | Utility Scale Facilities | 129,648 | 164,624 | -21.2% | 108,171 | 130,307 | 20,809 | 33,416 | 69 | 107 | 599 | 794 | 0 | 0 |
| Petroleum Liquids (1000 barrels) | Utility Scale Facilities | 28,673 | 33,393 | -14.1% | 18,893 | 21,030 | 8,032 | 10,295 | 355 | 444 | 1,393 | 1,624 | 0 | 0 |
| Petroleum Coke (1000 tons) | Utility Scale Facilities | 1,262 | 1,073 | 17.6% | W | W | W | W | W | W | W | W | 0 | 0 |

| Sales, Revenue, and Average Price of Electricity to Ultimate Customers for April | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total U.S. Electric Power Industry | | | | | | | | |
| | Sales of Electricity to Ultimate Customers (million kWh) | | | Revenue from Sales of Electricity to Ultimate Customers (million dollars) | | | Average Price of Electricity to Ultimate Customers (cents/kWh) | | |
| Sector | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | Percentage Change |
| Residential | 95,132 | 90,966 | 4.6% | 12,263 | 11,542 | 6.2% | 12.89 | 12.69 | 1.6% |
| Commercial | 102,941 | 101,796 | 1.1% | 10,745 | 10,584 | 1.5% | 10.44 | 10.40 | 0.4% |
| Industrial | 75,342 | 75,917 | -0.8% | 4,955 | 5,021 | -1.3% | 6.58 | 6.61 | -0.5% |
| Transportation | 608 | 590 | 3.1% | 58 | 56 | 4.0% | 9.53 | 9.44 | 1.0% |
| All Sectors | 274,023 | 269,269 | 1.8% | 28,021 | 27,203 | 3.0% | 10.23 | 10.10 | 1.3% |

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.
Sales of electricity to ultimate customers 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 sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

## Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2018 and 2017

| Net Generation and Consumption of Fuels for January through April | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total (All Sectors) | | | Electric Power Sector | | | | Commercial | | Industrial | | Residential | |
| | | | | | Electric Utilities | | Independent Power Producers | | | | | | | |
| Fuel | Facility Type | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| Net Generation (Thousand Megawatthours) | | | | | | | | | | | | | | |
| Coal | Utility Scale Facilities | 354,926 | 373,334 | -4.9% | 263,549 | 276,240 | 88,560 | 94,290 | 119 | 124 | 2,698 | 2,681 | 0 | 0 |
| Petroleum Liquids | Utility Scale Facilities | 7,696 | 3,924 | 96.1% | 4,217 | 2,941 | 3,235 | 801 | 63 | 37 | 181 | 145 | 0 | 0 |
| Petroleum Coke | Utility Scale Facilities | 2,808 | 2,716 | 3.4% | 2,313 | 2,078 | 268 | 395 | 4 | 3 | 223 | 240 | 0 | 0 |
| Natural Gas | Utility Scale Facilities | 409,806 | 353,373 | 16.0% | 197,154 | 171,236 | 180,817 | 150,372 | 2,429 | 2,384 | 29,406 | 29,381 | 0 | 0 |
| Other Gas | Utility Scale Facilities | 4,322 | 4,725 | -8.5% | 90 | 70 | 1,258 | 1,290 | 0 | 0 | 2,974 | 3,366 | 0 | 0 |
| Nuclear | Utility Scale Facilities | 265,559 | 258,518 | 2.7% | 139,104 | 137,246 | 126,455 | 121,271 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydroelectric Conventional | Utility Scale Facilities | 104,518 | 111,935 | -6.6% | 96,518 | 103,445 | 7,434 | 7,911 | 94 | 94 | 472 | 486 | 0 | 0 |
| Renewable Sources Excluding Hydroelectric | Utility Scale Facilities | 149,652 | 135,066 | 10.8% | 17,905 | 16,598 | 121,014 | 107,839 | 1,027 | 1,012 | 9,704 | 9,617 | 0 | 0 |
| ... Wind | Utility Scale Facilities | 104,801 | 94,862 | 10.5% | 14,318 | 13,784 | 90,390 | 81,000 | 59 | 54 | 34 | 24 | 0 | 0 |
| ... Solar Thermal and Photovoltaic | Utility Scale Facilities | 18,510 | 13,855 | 33.6% | 1,605 | 903 | 16,710 | 12,797 | 172 | 147 | 23 | 8 | 0 | 0 |
| ... Wood and Wood-Derived Fuels | Utility Scale Facilities | 14,100 | 14,029 | 0.5% | 1,179 | 1,089 | 3,584 | 3,681 | 22 | 23 | 9,315 | 9,236 | 0 | 0 |
| ... Other Biomass | Utility Scale Facilities | 6,968 | 6,941 | 0.4% | 473 | 474 | 5,389 | 5,331 | 774 | 788 | 332 | 348 | 0 | 0 |
| ... Geothermal | Utility Scale Facilities | 5,272 | 5,378 | -2.0% | 330 | 347 | 4,942 | 5,031 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydroelectric Pumped Storage | Utility Scale Facilities | -1,729 | -1,903 | -9.1% | -1,404 | -1,586 | -325 | -317 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Energy Sources | Utility Scale Facilities | 4,262 | 4,171 | 2.2% | 153 | 142 | 2,235 | 2,116 | 325 | 338 | 1,548 | 1,576 | 0 | 0 |
| All Energy Sources | Utility Scale Facilities | 1,301,817 | 1,245,858 | 4.5% | 719,598 | 708,407 | 530,953 | 485,968 | 4,060 | 3,991 | 47,206 | 47,492 | 0 | 0 |
| | | | | | | | | | | | | | | |
| Estimated Small Scale Solar Photovoltaic | Small Scale Facilities | 8,565 | 6,824 | 25.5% | 0 | 0 | 0 | 0 | 2,775 | 2,198 | 840 | 716 | 4,949 | 3,910 |
| Estimated Total Solar Photovoltaic | All Facilities | 26,184 | 19,847 | 31.9% | 1,584 | 903 | 15,841 | 11,964 | 2,947 | 2,345 | 863 | 724 | 4,949 | 3,910 |
| Estimated Total Solar | All Facilities | 27,075 | 20,679 | 30.9% | 1,605 | 903 | 16,710 | 12,797 | 2,947 | 2,345 | 863 | 724 | 4,949 | 3,910 |
| Consumption of Fossil Fuels for Electricity Generation | | | | | | | | | | | | | | |
| Coal (1000 tons) | Utility Scale Facilities | 195,346 | 204,188 | -4.3% | 144,484 | 149,503 | 49,840 | 53,712 | 33 | 36 | 988 | 938 | 0 | 0 |
| Petroleum Liquids (1000 barrels) | Utility Scale Facilities | 13,286 | 6,739 | 97.2% | 7,613 | 5,145 | 5,381 | 1,377 | 102 | 59 | 189 | 157 | 0 | 0 |
| Petroleum Coke (1000 tons) | Utility Scale Facilities | 1,066 | 1,043 | 2.2% | 921 | 843 | 95 | 142 | 1 | 1 | 49 | 58 | 0 | 0 |
| Natural Gas (1000 Mcf) | Utility Scale Facilities | 2,975,183 | 2,571,137 | 15.7% | 1,497,847 | 1,289,696 | 1,289,591 | 1,093,246 | 14,603 | 14,290 | 173,142 | 173,906 | 0 | 0 |
| Consumption of Fossil Fuels for Useful Thermal Output | | | | | | | | | | | | | | |
| Coal (1000 tons) | Utility Scale Facilities | 5,106 | 5,310 | -3.9% | 832 | 935 | 464 | 512 | 184 | 183 | 3,625 | 3,680 | 0 | 0 |
| Petroleum Liquids (1000 barrels) | Utility Scale Facilities | 1,094 | 618 | 77.2% | 61 | 27 | 158 | 79 | 215 | 113 | 659 | 399 | 0 | 0 |
| Petroleum Coke (1000 tons) | Utility Scale Facilities | 260 | 291 | -10.7% | 5 | 1 | 36 | 39 | 5 | 5 | 214 | 244 | 0 | 0 |
| Natural Gas (1000 Mcf) | Utility Scale Facilities | 399,785 | 382,468 | 4.5% | 13,402 | 13,448 | 114,733 | 112,571 | 27,036 | 26,135 | 244,613 | 230,313 | 0 | 0 |
| Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output | | | | | | | | | | | | | | |
| Coal (1000 tons) | Utility Scale Facilities | 200,452 | 209,499 | -4.3% | 145,316 | 150,439 | 50,304 | 54,224 | 218 | 219 | 4,613 | 4,618 | 0 | 0 |
| Petroleum Liquids (1000 barrels) | Utility Scale Facilities | 14,380 | 7,356 | 95.5% | 7,675 | 5,172 | 5,540 | 1,456 | 318 | 172 | 849 | 556 | 0 | 0 |
| Petroleum Coke (1000 tons) | Utility Scale Facilities | 1,325 | 1,334 | -0.6% | 926 | 844 | 130 | 181 | 6 | 6 | 263 | 302 | 0 | 0 |
| Natural Gas (1000 Mcf) | Utility Scale Facilities | 3,374,968 | 2,953,605 | 14.3% | 1,511,249 | 1,303,144 | 1,404,324 | 1,205,817 | 41,639 | 40,425 | 417,755 | 404,219 | 0 | 0 |

| Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through April | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total U.S. Electric Power Industry | | | | | | | | |
| | Sales of Electricity to Ultimate Customers (million kWh) | | | Revenue from Sales of Electricity to Ultimate Customers (million dollars) | | | Average Price of Electricity to Ultimate Customers (cents/kWh) | | |
| Sector | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | Percentage Change |
| Residential | 463,512 | 425,003 | 9.1% | 58,563 | 53,609 | 9.2% | 12.63 | 12.61 | 0.2% |
| Commercial | 426,229 | 417,987 | 2.0% | 44,727 | 43,437 | 3.0% | 10.49 | 10.39 | 1.0% |
| Industrial | 300,070 | 301,277 | -0.4% | 20,205 | 19,997 | 1.0% | 6.73 | 6.64 | 1.4% |
| Transportation | 2,619 | 2,536 | 3.3% | 249 | 239 | 4.1% | 9.51 | 9.44 | 0.7% |
| All Sectors | 1,192,430 | 1,146,803 | 4.0% | 123,744 | 117,283 | 5.5% | 10.38 | 10.23 | 1.5% |

YTD = Year-to-Date

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.

Sales of electricity to ultimate customers 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 sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

## Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2018 and 2017

| Total (All Sectors) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Physical Units) | | (Dollars / Physical Unit) | | Number of Plants | | (Physical Units) | | (Dollars / Physical Unit) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal (1000 tons) | 42,660 | 46,168 | 39.76 | 40.85 | 247 | 257 | 186,367 | 205,902 | 39.43 | 40.15 |
| Petroleum Liquids (1000 barrels) | 1,020 | 1,033 | 83.21 | 69.85 | 111 | 120 | 8,975 | 5,612 | 81.13 | 70.10 |
| Petroleum Coke (1000 tons) | 232 | 208 | 72.38 | 55.96 | 6 | 6 | 1,038 | 1,039 | 69.65 | 57.45 |
| Natural Gas (1000 Mcf) | 684,139 | 557,617 | 3.23 | 3.49 | 534 | 480 | 2,829,047 | 2,255,365 | 3.89 | 3.74 |

| Electric Utilities | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Physical Units) | | (Dollars / Physical Unit) | | Number of Plants | | (Physical Units) | | (Dollars / Physical Unit) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal (1000 tons) | 31,464 | 33,094 | 40.91 | 41.91 | 172 | 173 | 137,483 | 148,628 | 40.26 | 41.22 |
| Petroleum Liquids (1000 barrels) | 826 | 774 | 83.01 | 68.84 | 75 | 81 | 5,052 | 4,356 | 81.00 | 68.69 |
| Petroleum Coke (1000 tons) | 232 | 208 | 72.38 | 55.96 | 6 | 6 | 1,038 | 1,039 | 69.65 | 57.45 |
| Natural Gas (1000 Mcf) | 325,388 | 272,348 | 3.41 | 3.63 | 278 | 254 | 1,351,420 | 1,081,736 | 4.11 | 3.94 |

| Independent Power Producers | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Physical Units) | | (Dollars / Physical Unit) | | Number of Plants | | (Physical Units) | | (Dollars / Physical Unit) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal (1000 tons) | 10,574 | 12,350 | 35.57 | 37.09 | 60 | 63 | 46,137 | 54,318 | 36.20 | 36.45 |
| Petroleum Liquids (1000 barrels) | 170 | 233 | W | W | 27 | 29 | 3,766 | 1,162 | 81.47 | 75.36 |
| Petroleum Coke (1000 tons) | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Natural Gas (1000 Mcf) | 299,510 | 233,602 | 3.03 | 3.30 | 209 | 181 | 1,234,167 | 959,805 | 3.73 | 3.54 |

| Commercial Sector | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Physical Units) | | (Dollars / Physical Unit) | | Number of Plants | | (Physical Units) | | (Dollars / Physical Unit) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal (1000 tons) | 0 | 0 | -- | W | 0 | 1 | 6 | 13 | W | W |
| Petroleum Liquids (1000 barrels) | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Petroleum Coke (1000 tons) | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Natural Gas (1000 Mcf) | 713 | 490 | W | W | 3 | 3 | 2,965 | 2,414 | W | W |

| Industrial Sector | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Physical Units) | | (Dollars / Physical Unit) | | Number of Plants | | (Physical Units) | | (Dollars / Physical Unit) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal (1000 tons) | 622 | 724 | 53.03 | W | 15 | 20 | 2,742 | 2,943 | W | W |
| Petroleum Liquids (1000 barrels) | 24 | 26 | W | W | 9 | 10 | 157 | 94 | 78.29 | 70.97 |
| Petroleum Coke (1000 tons) | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Natural Gas (1000 Mcf) | 58,528 | 51,178 | W | W | 44 | 42 | 240,495 | 211,409 | W | W |

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... A plant using more than one fuel may be counted multiple times.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.

## Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2018 and 2017

| Total (All Sectors) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Billion Btu) | | (Dollars / Million Btu) | | Number of Plants | | (Billion Btu) | | (Dollars / Million Btu) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal | 819,193 | 893,611 | 2.07 | 2.11 | 247 | 257 | 3,561,838 | 3,958,473 | 2.06 | 2.09 |
| Petroleum Liquids | 6,190 | 6,223 | 13.71 | 11.59 | 111 | 120 | 54,084 | 33,639 | 13.42 | 11.69 |
| Petroleum Coke | 6,564 | 5,835 | 2.56 | 2.00 | 6 | 6 | 29,182 | 29,115 | 2.48 | 2.05 |
| Natural Gas | 705,836 | 576,199 | 3.13 | 3.38 | 534 | 480 | 2,921,331 | 2,331,127 | 3.77 | 3.61 |
| Fossil Fuels | 1,537,783 | 1,481,868 | 2.58 | 2.62 | 687 | 642 | 6,566,435 | 6,352,354 | 2.88 | 2.67 |

| Electric Utilities | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Billion Btu) | | (Dollars / Million Btu) | | Number of Plants | | (Billion Btu) | | (Dollars / Million Btu) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal | 606,452 | 646,292 | 2.12 | 2.15 | 172 | 173 | 2,634,997 | 2,873,084 | 2.10 | 2.13 |
| Petroleum Liquids | 5,034 | 4,679 | 13.61 | 11.38 | 75 | 81 | 30,628 | 26,208 | 13.35 | 11.42 |
| Petroleum Coke | 6,564 | 5,835 | 2.56 | 2.00 | 6 | 6 | 29,182 | 29,115 | 2.48 | 2.05 |
| Natural Gas | 335,447 | 281,420 | 3.31 | 3.52 | 278 | 254 | 1,394,853 | 1,118,072 | 3.98 | 3.81 |
| Fossil Fuels | 953,497 | 938,227 | 2.60 | 2.60 | 386 | 365 | 4,089,661 | 4,046,479 | 2.83 | 2.65 |

| Independent Power Producers | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Billion Btu) | | (Dollars / Million Btu) | | Number of Plants | | (Billion Btu) | | (Dollars / Million Btu) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal | 199,704 | 231,929 | 1.88 | 1.97 | 60 | 63 | 869,484 | 1,022,756 | 1.92 | 1.93 |
| Petroleum Liquids | 1,003 | 1,383 | W | W | 27 | 29 | 22,473 | 6,844 | 13.57 | 12.79 |
| Petroleum Coke | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Natural Gas | 309,434 | 241,451 | 2.93 | 3.19 | 209 | 181 | 1,275,674 | 992,252 | 3.61 | 3.43 |
| Fossil Fuels | 510,141 | 474,763 | W | W | 252 | 230 | 2,167,632 | 2,021,853 | 2.95 | 2.63 |

| Commercial Sector | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Billion Btu) | | (Dollars / Million Btu) | | Number of Plants | | (Billion Btu) | | (Dollars / Million Btu) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal | 0 | 1 | -- | W | 0 | 1 | 130 | 308 | W | W |
| Petroleum Liquids | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Petroleum Coke | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Natural Gas | 732 | 502 | W | W | 3 | 3 | 3,053 | 2,490 | W | W |
| Fossil Fuels | 732 | 503 | W | W | 3 | 3 | 3,183 | 2,797 | W | W |

| Industrial Sector | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Year-to-Date | | | |
| | Receipts | | Cost | | | | Receipts | | Cost | |
| | (Billion Btu) | | (Dollars / Million Btu) | | Number of Plants | | (Billion Btu) | | (Dollars / Million Btu) | |
| Fuel | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| Coal | 13,037 | 15,389 | 2.53 | W | 15 | 20 | 57,226 | 62,325 | W | W |
| Petroleum Liquids | 153 | 160 | W | W | 9 | 10 | 982 | 586 | 12.48 | 11.37 |
| Petroleum Coke | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | -- | -- |
| Natural Gas | 60,223 | 52,826 | W | W | 44 | 42 | 247,750 | 218,314 | W | W |
| Fossil Fuels | 73,413 | 68,375 | W | W | 46 | 44 | 305,959 | 281,225 | W | W |

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... The total number of fossil fuel plants is not the sum of the figures above it because a plant that receives two or more different fuels is only counted once.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

**Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2008-April 2018**
**(Thousand Megawatthours)**

| | Generation at Utility Scale Facilities | | | | | | | | | | | | Small Scale Generation | Net Generation From Utility and Small Scale Facilities | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Solar | Renewable Sources Excluding Hydroelectric and Solar | Hydroelectric Pumped Storage | Other | Total Generation at Utility Scale Facilities | Estimated Solar Photovoltaic | Estimated Total Solar Photovoltaic | Estimated Total Solar |
| Annual Totals | | | | | | | | | | | | | | | |
| 2008 | 1,985,801 | 31,917 | 14,325 | 882,981 | 11,707 | 806,208 | 254,831 | 864 | 125,237 | -6,288 | 11,804 | 4,119,388 | N/A | N/A | N/A |
| 2009 | 1,755,904 | 25,972 | 12,964 | 920,979 | 10,632 | 798,855 | 273,445 | 891 | 143,388 | -4,627 | 11,928 | 3,950,331 | N/A | N/A | N/A |
| 2010 | 1,847,290 | 23,337 | 13,724 | 987,697 | 11,313 | 806,968 | 260,203 | 1,212 | 165,961 | -5,501 | 12,855 | 4,125,060 | N/A | N/A | N/A |
| 2011 | 1,733,430 | 16,086 | 14,096 | 1,013,689 | 11,566 | 790,204 | 319,355 | 1,818 | 192,163 | -6,421 | 14,154 | 4,100,141 | N/A | N/A | N/A |
| 2012 | 1,514,043 | 13,403 | 9,787 | 1,225,894 | 11,898 | 769,331 | 276,240 | 4,327 | 214,006 | -4,950 | 13,787 | 4,047,765 | N/A | N/A | N/A |
| 2013 | 1,581,115 | 13,820 | 13,344 | 1,124,836 | 12,853 | 789,016 | 268,565 | 9,036 | 244,472 | -4,681 | 13,588 | 4,065,964 | N/A | N/A | N/A |
| 2014 | 1,581,710 | 18,276 | 11,955 | 1,126,609 | 12,022 | 797,166 | 259,367 | 17,691 | 261,522 | -6,174 | 13,461 | 4,093,606 | 11,233 | 26,482 | 28,924 |
| 2015 | 1,352,398 | 17,372 | 10,877 | 1,333,482 | 13,117 | 797,178 | 249,080 | 24,893 | 270,268 | -5,091 | 14,028 | 4,077,601 | 14,139 | 35,805 | 39,032 |
| 2016 | 1,239,149 | 13,008 | 11,197 | 1,378,307 | 12,807 | 805,694 | 267,812 | 36,054 | 305,579 | -6,686 | 13,754 | 4,076,675 | 18,812 | 51,483 | 54,866 |
| 2017 | 1,207,901 | 12,583 | 8,508 | 1,272,864 | 14,159 | 804,950 | 300,045 | 52,958 | 334,287 | -6,495 | 13,045 | 4,014,804 | 24,139 | 73,828 | 77,097 |
| Year 2016 | | | | | | | | | | | | | | | |
| January | 113,459 | 1,396 | 966 | 110,044 | 1,195 | 72,525 | 25,615 | 1,486 | 25,193 | -312 | 1,153 | 352,719 | 980 | 2,380 | 2,465 |
| February | 92,705 | 1,299 | 910 | 98,552 | 1,062 | 65,638 | 24,139 | 2,242 | 26,496 | -399 | 1,041 | 313,685 | 1,145 | 3,145 | 3,386 |
| March | 72,173 | 874 | 927 | 103,890 | 1,197 | 66,149 | 27,390 | 2,617 | 28,467 | -384 | 1,090 | 304,390 | 1,525 | 3,885 | 4,143 |
| April | 72,113 | 833 | 1,006 | 98,876 | 1,132 | 62,732 | 25,878 | 2,880 | 26,787 | -452 | 1,109 | 292,894 | 1,703 | 4,309 | 4,583 |
| May | 81,695 | 984 | 974 | 110,430 | 1,053 | 66,576 | 25,486 | 3,425 | 25,286 | -321 | 1,195 | 316,784 | 1,879 | 4,916 | 5,304 |
| June | 116,034 | 972 | 1,005 | 131,395 | 1,043 | 67,175 | 23,237 | 3,473 | 22,763 | -497 | 1,180 | 367,781 | 1,928 | 4,990 | 5,401 |
| July | 136,316 | 1,273 | 1,049 | 151,554 | 1,077 | 70,349 | 21,455 | 3,945 | 24,428 | -784 | 1,225 | 411,887 | 2,000 | 5,474 | 5,945 |
| August | 135,635 | 1,258 | 1,078 | 154,760 | 1,064 | 71,526 | 19,570 | 3,969 | 20,496 | -902 | 1,248 | 409,701 | 1,942 | 5,543 | 5,911 |
| Sept | 114,138 | 946 | 980 | 125,603 | 1,020 | 65,448 | 16,368 | 3,635 | 22,894 | -715 | 1,168 | 351,484 | 1,735 | 5,007 | 5,370 |
| October | 99,194 | 937 | 635 | 102,898 | 913 | 60,733 | 17,339 | 3,191 | 26,558 | -561 | 1,108 | 312,945 | 1,552 | 4,495 | 4,743 |
| November | 86,940 | 1,070 | 799 | 93,942 | 1,013 | 65,179 | 18,808 | 2,767 | 26,052 | -607 | 1,098 | 297,062 | 1,257 | 3,840 | 4,024 |
| December | 118,747 | 1,166 | 869 | 96,364 | 1,037 | 71,662 | 22,528 | 2,424 | 30,159 | -753 | 1,139 | 345,343 | 1,167 | 3,500 | 3,591 |
| Year 2017 | | | | | | | | | | | | | | | |
| January | 115,501 | 1,156 | 917 | 91,447 | 1,120 | 73,121 | 27,853 | 2,152 | 27,600 | -435 | 1,085 | 341,518 | 1,244 | 3,306 | 3,396 |
| February | 86,873 | 905 | 687 | 81,040 | 1,191 | 63,560 | 24,542 | 2,497 | 28,521 | -508 | 990 | 290,297 | 1,383 | 3,744 | 3,880 |
| March | 89,427 | 979 | 707 | 94,708 | 1,257 | 65,093 | 30,221 | 4,433 | 32,934 | -521 | 1,052 | 320,291 | 1,987 | 6,123 | 6,419 |
| April | 81,533 | 884 | 404 | 86,178 | 1,157 | 56,743 | 29,320 | 4,774 | 32,154 | -439 | 1,044 | 293,752 | 2,211 | 6,674 | 6,985 |
| May | 92,881 | 1,002 | 772 | 96,777 | 1,182 | 61,313 | 32,177 | 5,766 | 29,118 | -423 | 1,081 | 321,645 | 2,440 | 7,805 | 8,207 |
| June | 107,728 | 1,006 | 873 | 116,061 | 1,211 | 67,011 | 30,424 | 6,252 | 26,296 | -568 | 1,096 | 357,390 | 2,503 | 8,290 | 8,755 |
| July | 127,959 | 940 | 807 | 144,720 | 1,261 | 71,314 | 25,745 | 5,505 | 22,814 | -759 | 1,205 | 401,510 | 2,578 | 7,771 | 8,083 |
| August | 119,780 | 997 | 727 | 139,610 | 1,321 | 72,384 | 21,241 | 5,401 | 20,101 | -638 | 1,217 | 382,140 | 2,501 | 7,562 | 7,903 |
| Sept | 98,404 | 987 | 678 | 116,728 | 1,120 | 68,098 | 18,965 | 5,168 | 23,647 | -606 | 1,030 | 334,219 | 2,240 | 7,059 | 7,408 |
| October | 90,087 | 999 | 535 | 106,867 | 1,014 | 65,995 | 17,211 | 4,830 | 31,344 | -463 | 1,025 | 319,443 | 2,002 | 6,518 | 6,832 |
| November | 91,151 | 922 | 693 | 92,585 | 1,198 | 66,618 | 19,840 | 3,120 | 29,935 | -478 | 1,075 | 306,660 | 1,574 | 4,563 | 4,694 |
| December | 106,578 | 1,805 | 708 | 106,144 | 1,127 | 73,700 | 22,507 | 3,059 | 29,822 | -656 | 1,145 | 345,939 | 1,476 | 4,413 | 4,536 |
| Year 2018 | | | | | | | | | | | | | | | |
| January | 118,696 | 5,220 | 915 | 109,601 | 1,060 | 74,649 | 25,422 | 3,262 | 33,821 | -547 | 1,115 | 373,213 | 1,655 | 4,789 | 4,917 |
| February | 82,051 | 792 | 718 | 96,317 | 1,092 | 64,790 | 25,593 | 4,037 | 30,385 | -315 | 999 | 306,458 | 1,774 | 5,621 | 5,812 |
| March | 80,691 | 820 | 593 | 103,884 | 1,193 | 67,033 | 25,887 | 5,099 | 34,096 | -490 | 1,111 | 319,917 | 2,414 | 7,256 | 7,513 |
| April | 73,489 | 864 | 582 | 100,004 | 976 | 59,087 | 27,615 | 6,111 | 32,841 | -377 | 1,038 | 302,229 | 2,721 | 8,518 | 8,833 |
| Year to Date | | | | | | | | | | | | | | | |
| 2016 | 350,450 | 4,402 | 3,809 | 411,362 | 4,586 | 267,044 | 103,021 | 9,224 | 106,943 | -1,546 | 4,393 | 1,263,688 | 5,352 | 13,719 | 14,577 |
| 2017 | 373,334 | 3,924 | 2,716 | 353,373 | 4,725 | 258,518 | 111,935 | 13,855 | 121,210 | -1,903 | 4,171 | 1,245,858 | 6,824 | 19,847 | 20,679 |
| 2018 | 354,926 | 7,696 | 2,808 | 409,806 | 4,322 | 265,559 | 104,518 | 18,510 | 131,142 | -1,729 | 4,262 | 1,301,817 | 8,565 | 26,184 | 27,075 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | | | | |
| 2017 | 1,262,033 | 12,530 | 10,104 | 1,320,318 | 12,947 | 797,168 | 276,726 | 40,685 | 319,846 | -7,043 | 13,532 | 4,058,846 | 20,284 | 57,611 | 60,969 |
| 2018 | 1,189,493 | 16,355 | 8,600 | 1,329,297 | 13,755 | 811,991 | 292,627 | 57,612 | 344,218 | -6,321 | 13,135 | 4,070,764 | 25,880 | 80,165 | 83,492 |

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, 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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

**Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2008-April 2018**
**(Thousand Megawatthours)**

| | Generation at Utility Scale Facilities | | | | | | | | | | Small Scale Generation | Generation From Utility and Small Scale Facilities | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 Generation at Utility Scale Facilities | Estimated Solar Photovoltaic | Estimated Total Solar Photovoltaic | Estimated Total Solar |
| Annual Totals | | | | | | | | | | | | | |
| 2008 | 55,363 | 76 | 788 | 37,300 | 7,156 | 8,097 | 2,481 | 14,840 | 254,831 | 380,932 | N/A | N/A | N/A |
| 2009 | 73,886 | 157 | 735 | 36,050 | 7,924 | 8,058 | 2,461 | 15,009 | 273,445 | 417,724 | N/A | N/A | N/A |
| 2010 | 94,652 | 423 | 789 | 37,172 | 8,377 | 7,927 | 2,613 | 15,219 | 260,203 | 427,376 | N/A | N/A | N/A |
| 2011 | 120,177 | 1,012 | 806 | 37,449 | 9,044 | 7,354 | 2,824 | 15,316 | 319,355 | 513,336 | N/A | N/A | N/A |
| 2012 | 140,822 | 3,451 | 876 | 37,799 | 9,803 | 7,320 | 2,700 | 15,562 | 276,240 | 494,573 | N/A | N/A | N/A |
| 2013 | 167,840 | 8,121 | 915 | 40,028 | 10,658 | 7,186 | 2,986 | 15,775 | 268,565 | 522,073 | N/A | N/A | N/A |
| 2014 | 181,655 | 15,250 | 2,441 | 42,340 | 11,220 | 7,228 | 3,202 | 15,877 | 259,367 | 538,579 | 11,233 | 26,482 | 28,924 |
| 2015 | 190,719 | 21,666 | 3,227 | 41,929 | 11,291 | 7,211 | 3,201 | 15,918 | 249,080 | 544,241 | 14,139 | 35,805 | 39,032 |
| 2016 | 226,993 | 32,670 | 3,384 | 40,947 | 11,218 | 7,265 | 3,331 | 15,826 | 267,812 | 609,445 | 18,812 | 51,483 | 54,866 |
| 2017 | 254,254 | 49,688 | 3,269 | 43,284 | 10,876 | 6,964 | 2,933 | 15,976 | 300,045 | 687,289 | 24,139 | 73,828 | 77,097 |
| Year 2016 | | | | | | | | | | | | | |
| January | 18,466 | 1,400 | 86 | 3,600 | 915 | 603 | 277 | 1,332 | 25,615 | 52,294 | 980 | 2,380 | 2,465 |
| February | 20,138 | 2,000 | 241 | 3,406 | 886 | 537 | 285 | 1,243 | 24,139 | 52,877 | 1,145 | 3,145 | 3,386 |
| March | 21,939 | 2,360 | 257 | 3,403 | 949 | 579 | 281 | 1,315 | 27,390 | 58,474 | 1,525 | 3,885 | 4,143 |
| April | 20,799 | 2,606 | 273 | 2,967 | 932 | 593 | 287 | 1,209 | 25,878 | 55,544 | 1,703 | 4,309 | 4,583 |
| May | 18,848 | 3,037 | 388 | 3,187 | 980 | 649 | 280 | 1,342 | 25,486 | 54,197 | 1,879 | 4,916 | 5,304 |
| June | 16,303 | 3,062 | 412 | 3,414 | 934 | 614 | 247 | 1,251 | 23,237 | 49,473 | 1,928 | 4,990 | 5,401 |
| July | 17,618 | 3,473 | 471 | 3,658 | 943 | 635 | 262 | 1,311 | 21,455 | 49,828 | 2,000 | 5,474 | 5,945 |
| August | 13,589 | 3,602 | 368 | 3,722 | 942 | 634 | 285 | 1,324 | 19,570 | 44,035 | 1,942 | 5,543 | 5,911 |
| Sept | 16,404 | 3,272 | 363 | 3,407 | 895 | 589 | 272 | 1,327 | 16,368 | 42,897 | 1,735 | 5,007 | 5,370 |
| October | 20,335 | 2,942 | 249 | 3,176 | 839 | 589 | 265 | 1,353 | 17,339 | 47,088 | 1,552 | 4,495 | 4,743 |
| November | 19,406 | 2,583 | 184 | 3,391 | 993 | 602 | 296 | 1,364 | 18,808 | 47,627 | 1,257 | 3,840 | 4,024 |
| December | 23,146 | 2,333 | 91 | 3,615 | 1,011 | 640 | 293 | 1,454 | 22,528 | 55,111 | 1,167 | 3,500 | 3,591 |
| Year 2017 | | | | | | | | | | | | | |
| January | 20,749 | 2,062 | 90 | 3,589 | 972 | 619 | 272 | 1,399 | 27,853 | 57,605 | 1,244 | 3,306 | 3,396 |
| February | 22,228 | 2,361 | 136 | 3,405 | 866 | 529 | 252 | 1,241 | 24,542 | 55,559 | 1,383 | 3,744 | 3,880 |
| March | 26,133 | 4,136 | 297 | 3,662 | 927 | 558 | 275 | 1,380 | 30,221 | 67,588 | 1,987 | 6,123 | 6,419 |
| April | 25,753 | 4,464 | 310 | 3,373 | 881 | 546 | 244 | 1,357 | 29,320 | 66,248 | 2,211 | 6,674 | 6,985 |
| May | 22,642 | 5,364 | 402 | 3,438 | 907 | 604 | 232 | 1,295 | 32,177 | 67,061 | 2,440 | 7,805 | 8,207 |
| June | 19,711 | 5,788 | 465 | 3,625 | 883 | 589 | 224 | 1,265 | 30,424 | 62,972 | 2,503 | 8,290 | 8,755 |
| July | 15,765 | 5,193 | 311 | 3,922 | 916 | 604 | 240 | 1,368 | 25,745 | 54,064 | 2,578 | 7,771 | 8,083 |
| August | 13,089 | 5,060 | 341 | 3,880 | 925 | 617 | 233 | 1,357 | 21,241 | 46,743 | 2,501 | 7,562 | 7,903 |
| Sept | 17,268 | 4,818 | 349 | 3,404 | 878 | 558 | 214 | 1,325 | 18,965 | 47,779 | 2,240 | 7,059 | 7,408 |
| October | 24,821 | 4,516 | 314 | 3,569 | 885 | 559 | 248 | 1,261 | 17,211 | 53,385 | 2,002 | 6,518 | 6,832 |
| November | 23,320 | 2,989 | 131 | 3,560 | 904 | 572 | 245 | 1,334 | 19,840 | 52,896 | 1,574 | 4,563 | 4,694 |
| December | 22,776 | 2,937 | 123 | 3,859 | 932 | 608 | 255 | 1,393 | 22,507 | 55,388 | 1,476 | 4,413 | 4,536 |
| Year 2018 | | | | | | | | | | | | | |
| January | 26,834 | 3,134 | 128 | 3,847 | 925 | 590 | 252 | 1,373 | 25,422 | 62,505 | 1,655 | 4,789 | 4,917 |
| February | 23,936 | 3,846 | 191 | 3,461 | 883 | 561 | 241 | 1,303 | 25,593 | 60,015 | 1,774 | 5,621 | 5,812 |
| March | 27,275 | 4,842 | 258 | 3,630 | 941 | 599 | 267 | 1,385 | 25,887 | 65,082 | 2,414 | 7,256 | 7,513 |
| April | 26,757 | 5,797 | 314 | 3,163 | 889 | 570 | 251 | 1,212 | 27,615 | 66,567 | 2,721 | 8,518 | 8,833 |
| Year to Date | | | | | | | | | | | | | |
| 2016 | 81,343 | 8,367 | 858 | 13,376 | 3,682 | 2,312 | 1,130 | 5,100 | 103,021 | 219,189 | 5,352 | 13,719 | 14,577 |
| 2017 | 94,862 | 13,023 | 833 | 14,029 | 3,646 | 2,252 | 1,043 | 5,378 | 111,935 | 247,001 | 6,824 | 19,847 | 20,679 |
| 2018 | 104,801 | 17,619 | 891 | 14,100 | 3,638 | 2,319 | 1,011 | 5,272 | 104,518 | 254,169 | 8,565 | 26,184 | 27,075 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | | |
| 2017 | 240,512 | 37,327 | 3,358 | 41,599 | 11,183 | 7,204 | 3,244 | 16,104 | 276,726 | 637,257 | 20,284 | 57,611 | 60,969 |
| 2018 | 264,193 | 54,285 | 3,328 | 43,356 | 10,867 | 7,031 | 2,901 | 15,871 | 292,627 | 694,457 | 25,880 | 80,165 | 83,492 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

**Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2008-April 2018**
**(Thousand Megawatthours)**

| | Generation at Utility Scale Facilities | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Solar | Renewable Sources Excluding Hydroelectric and Solar | Hydroelectric Pumped Storage | Other | Total |
| Annual Totals | | | | | | | | | | | | |
| 2008 | 1,466,395 | 22,206 | 5,918 | 320,190 | 46 | 424,256 | 229,645 | 17 | 11,291 | -5,143 | 545 | 2,475,367 |
| 2009 | 1,322,092 | 18,035 | 7,182 | 349,166 | 96 | 417,275 | 247,198 | 28 | 14,589 | -3,369 | 483 | 2,372,776 |
| 2010 | 1,378,028 | 17,258 | 8,807 | 392,616 | 52 | 424,843 | 236,104 | 101 | 17,826 | -4,466 | 462 | 2,471,632 |
| 2011 | 1,301,107 | 11,688 | 9,428 | 414,843 | 29 | 415,298 | 291,413 | 216 | 21,717 | -5,492 | 604 | 2,460,851 |
| 2012 | 1,146,480 | 9,892 | 5,664 | 504,958 | 0 | 394,823 | 252,936 | 639 | 27,378 | -4,202 | 603 | 2,339,172 |
| 2013 | 1,188,452 | 9,446 | 9,522 | 501,427 | 798 | 406,114 | 243,040 | 943 | 31,474 | -3,773 | 615 | 2,388,058 |
| 2014 | 1,173,073 | 10,696 | 9,147 | 501,414 | 112 | 419,871 | 238,185 | 1,218 | 33,278 | -5,144 | 622 | 2,382,473 |
| 2015 | 998,385 | 10,386 | 8,278 | 617,817 | 199 | 416,680 | 229,640 | 1,494 | 35,992 | -4,105 | 558 | 2,315,323 |
| 2016 | 922,399 | 9,069 | 8,881 | 654,780 | 154 | 424,400 | 247,787 | 1,995 | 40,666 | -5,629 | 421 | 2,304,923 |
| 2017 | 895,095 | 8,805 | 6,711 | 617,725 | 164 | 424,485 | 276,804 | 3,512 | 42,618 | -5,448 | 473 | 2,270,945 |
| Year 2016 | | | | | | | | | | | | |
| January | 84,012 | 965 | 832 | 52,818 | 3 | 37,974 | 23,579 | 95 | 3,303 | -230 | 34 | 203,384 |
| February | 69,852 | 830 | 734 | 48,009 | 4 | 34,281 | 22,015 | 135 | 3,624 | -332 | 30 | 179,182 |
| March | 56,982 | 623 | 724 | 49,949 | 5 | 34,445 | 25,125 | 151 | 3,696 | -291 | 42 | 171,452 |
| April | 53,542 | 602 | 858 | 46,425 | 7 | 34,036 | 23,742 | 169 | 3,887 | -367 | 34 | 162,936 |
| May | 62,093 | 695 | 763 | 52,908 | 10 | 36,531 | 23,508 | 187 | 3,098 | -257 | 33 | 179,569 |
| June | 86,611 | 710 | 793 | 63,858 | 16 | 37,000 | 21,716 | 188 | 3,034 | -409 | 40 | 213,557 |
| July | 100,856 | 926 | 833 | 71,913 | 21 | 37,919 | 20,030 | 197 | 2,837 | -678 | 34 | 234,890 |
| August | 100,156 | 905 | 856 | 72,293 | 13 | 37,927 | 18,241 | 207 | 2,432 | -787 | 33 | 232,277 |
| Sept | 83,223 | 644 | 807 | 58,392 | 23 | 33,919 | 15,283 | 190 | 3,215 | -626 | 35 | 195,105 |
| October | 72,950 | 658 | 418 | 47,710 | 7 | 30,016 | 16,149 | 182 | 3,479 | -471 | 36 | 171,134 |
| November | 64,830 | 700 | 596 | 44,171 | 22 | 33,082 | 17,599 | 154 | 3,635 | -522 | 35 | 164,301 |
| December | 87,293 | 811 | 667 | 46,333 | 22 | 37,268 | 20,799 | 139 | 4,425 | -657 | 36 | 197,136 |
| Year 2017 | | | | | | | | | | | | |
| January | 86,110 | 838 | 743 | 44,020 | 14 | 38,425 | 25,700 | 148 | 3,310 | -346 | 37 | 198,999 |
| February | 64,900 | 658 | 540 | 39,303 | 19 | 33,911 | 22,668 | 172 | 3,771 | -418 | 31 | 165,556 |
| March | 66,119 | 779 | 535 | 45,959 | 17 | 34,693 | 28,009 | 281 | 4,428 | -455 | 35 | 180,401 |
| April | 59,111 | 665 | 260 | 41,953 | 19 | 30,217 | 27,067 | 303 | 4,186 | -368 | 38 | 163,451 |
| May | 69,189 | 730 | 654 | 47,955 | 6 | 31,728 | 29,772 | 368 | 3,690 | -350 | 35 | 183,780 |
| June | 81,393 | 719 | 698 | 56,424 | 12 | 35,022 | 28,303 | 382 | 3,400 | -474 | 38 | 205,918 |
| July | 96,931 | 671 | 673 | 70,858 | 21 | 37,874 | 23,736 | 358 | 2,627 | -646 | 43 | 233,146 |
| August | 90,678 | 722 | 540 | 68,465 | NM | 38,667 | 19,464 | 352 | 2,252 | -531 | 46 | 220,659 |
| Sept | 71,951 | 705 | 523 | 56,671 | NM | 35,496 | 17,450 | 338 | 2,848 | -522 | 42 | 185,504 |
| October | 66,669 | 752 | 405 | 51,469 | 10 | 35,038 | 15,750 | 320 | 4,224 | -388 | 41 | 174,289 |
| November | 65,099 | 654 | 583 | 44,546 | 17 | 34,541 | 18,048 | 241 | 3,978 | -394 | 42 | 167,355 |
| December | 76,945 | 911 | 556 | 50,102 | 25 | 38,871 | 20,836 | 251 | 3,904 | -557 | 43 | 191,887 |
| Year 2018 | | | | | | | | | | | | |
| January | 88,381 | 2,364 | 770 | 54,200 | 26 | 39,366 | 23,621 | 257 | 4,401 | -475 | 37 | 212,947 |
| February | 61,125 | 624 | 575 | 46,364 | 18 | 33,941 | 23,653 | 354 | 3,803 | -226 | 35 | 170,268 |
| March | 58,622 | 598 | 491 | 49,147 | 17 | 35,262 | 23,870 | 473 | 4,209 | -408 | 44 | 172,325 |
| April | 55,421 | 632 | 477 | 47,442 | 28 | 30,534 | 25,374 | 520 | 3,887 | -295 | 37 | 164,058 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 264,388 | 3,020 | 3,148 | 197,201 | 19 | 140,737 | 94,462 | 550 | 14,510 | -1,221 | 140 | 716,954 |
| 2017 | 276,240 | 2,941 | 2,078 | 171,236 | 70 | 137,246 | 103,445 | 903 | 15,695 | -1,586 | 142 | 708,407 |
| 2018 | 263,549 | 4,217 | 2,313 | 197,154 | 90 | 139,104 | 96,518 | 1,605 | 16,300 | -1,404 | 153 | 719,598 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 934,251 | 8,990 | 7,811 | 628,814 | 204 | 420,909 | 256,770 | 2,348 | 41,850 | -5,994 | 423 | 2,296,376 |
| 2018 | 882,404 | 10,082 | 6,946 | 643,643 | NM | 426,342 | 269,877 | 4,214 | 43,224 | -5,266 | 484 | 2,282,136 |

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, 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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 1.2.B Net Generation by Energy Source: Independent Power Producers, 2008-April 2018**
**(Thousand Megawatthours)**

| | Generation at Utility Scale Facilities | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Solar | Renewable Sources Excluding Hydroelectric and Solar | Hydroelectric Pumped Storage | Other | Total |
| Annual Totals | | | | | | | | | | | | |
| 2008 | 502,442 | 8,021 | 6,737 | 482,182 | 3,154 | 381,952 | 23,451 | 847 | 84,928 | -1,145 | 6,414 | 1,498,982 |
| 2009 | 419,031 | 6,306 | 4,288 | 491,839 | 2,962 | 381,579 | 24,308 | 863 | 100,997 | -1,259 | 6,146 | 1,437,061 |
| 2010 | 449,709 | 5,117 | 3,497 | 508,774 | 2,915 | 382,126 | 22,351 | 1,105 | 119,851 | -1,035 | 6,345 | 1,500,754 |
| 2011 | 416,783 | 3,655 | 3,431 | 511,447 | 2,911 | 374,906 | 26,117 | 1,511 | 140,442 | -928 | 7,059 | 1,487,335 |
| 2012 | 354,076 | 2,757 | 1,758 | 627,833 | 2,984 | 374,509 | 20,923 | 3,525 | 156,539 | -748 | 7,030 | 1,551,186 |
| 2013 | 379,270 | 3,761 | 1,780 | 527,522 | 3,524 | 382,902 | 22,018 | 7,782 | 181,263 | -908 | 6,742 | 1,515,657 |
| 2014 | 395,701 | 6,789 | 1,410 | 531,758 | 3,246 | 377,295 | 19,861 | 16,086 | 196,723 | -1,030 | 6,690 | 1,554,530 |
| 2015 | 342,608 | 6,240 | 1,601 | 619,839 | 3,517 | 380,498 | 17,996 | 22,962 | 202,858 | -987 | 6,838 | 1,603,971 |
| 2016 | 307,263 | 3,360 | 1,401 | 624,600 | 3,758 | 381,294 | 18,539 | 33,502 | 233,553 | -1,057 | 6,941 | 1,613,156 |
| 2017 | 304,398 | 3,235 | 1,013 | 558,439 | 4,013 | 380,465 | 21,585 | 48,814 | 259,889 | -1,047 | 6,509 | 1,587,313 |
| Year 2016 | | | | | | | | | | | | |
| January | 28,612 | 379 | 42 | 48,969 | 341 | 34,551 | 1,884 | 1,363 | 19,168 | -82 | 589 | 135,816 |
| February | 22,057 | 416 | 99 | 42,840 | 295 | 31,357 | 1,991 | 2,065 | 20,345 | -66 | 540 | 121,939 |
| March | 14,363 | 210 | 138 | 45,900 | 355 | 31,704 | 2,100 | 2,420 | 22,164 | -93 | 549 | 119,810 |
| April | 17,877 | 188 | 97 | 44,832 | 311 | 28,696 | 1,993 | 2,662 | 20,487 | -84 | 554 | 117,612 |
| May | 18,842 | 233 | 124 | 49,574 | 303 | 30,046 | 1,847 | 3,188 | 19,608 | -64 | 610 | 124,310 |
| June | 28,585 | 214 | 131 | 59,185 | 335 | 30,175 | 1,410 | 3,229 | 17,117 | -88 | 595 | 140,888 |
| July | 34,564 | 291 | 136 | 70,645 | 324 | 32,430 | 1,306 | 3,690 | 18,856 | -106 | 610 | 162,745 |
| August | 34,607 | 309 | 140 | 73,317 | 319 | 33,599 | 1,217 | 3,701 | 15,341 | -115 | 617 | 163,051 |
| Sept | 30,124 | 258 | 113 | 58,805 | 323 | 31,529 | 996 | 3,394 | 17,145 | -89 | 557 | 143,155 |
| October | 25,524 | 232 | 141 | 47,044 | 228 | 30,717 | 1,080 | 2,965 | 20,549 | -90 | 549 | 128,939 |
| November | 21,446 | 325 | 116 | 41,736 | 330 | 32,097 | 1,122 | 2,576 | 19,760 | -85 | 560 | 119,981 |
| December | 30,661 | 307 | 124 | 41,755 | 296 | 34,394 | 1,591 | 2,250 | 23,013 | -96 | 613 | 134,908 |
| Year 2017 | | | | | | | | | | | | |
| January | 28,593 | 264 | 116 | 38,893 | 337 | 34,695 | 2,008 | 1,981 | 21,600 | -90 | 580 | 128,978 |
| February | 21,279 | 203 | 92 | 34,219 | 317 | 29,650 | 1,741 | 2,297 | 22,205 | -90 | 513 | 112,426 |
| March | 22,607 | 155 | 92 | 40,738 | 355 | 30,400 | 2,059 | 4,101 | 25,836 | -66 | 517 | 126,794 |
| April | 21,810 | 179 | 95 | 36,522 | 281 | 26,526 | 2,103 | 4,418 | 25,402 | -71 | 506 | 117,771 |
| May | 23,035 | 229 | 41 | 40,987 | 340 | 29,585 | 2,243 | 5,330 | 22,880 | -73 | 544 | 125,140 |
| June | 25,605 | 246 | 100 | 51,504 | 331 | 31,988 | 1,972 | 5,792 | 20,276 | -93 | 549 | 138,270 |
| July | 30,301 | 227 | 47 | 65,181 | 356 | 33,440 | 1,867 | 5,077 | 17,361 | -114 | 571 | 154,316 |
| August | 28,374 | 232 | 113 | 62,813 | 366 | 33,717 | 1,652 | 4,982 | 15,031 | -107 | 580 | 147,754 |
| Sept | 25,775 | 243 | 97 | 52,413 | 332 | 32,602 | 1,402 | 4,764 | 18,304 | -84 | 508 | 136,355 |
| October | 22,715 | 203 | 84 | 47,683 | 306 | 30,957 | 1,346 | 4,451 | 24,554 | -75 | 518 | 132,743 |
| November | 25,391 | 222 | 35 | 40,082 | 348 | 32,077 | 1,657 | 2,845 | 23,363 | -84 | 537 | 126,473 |
| December | 28,912 | 832 | 100 | 47,404 | 343 | 34,828 | 1,534 | 2,776 | 23,076 | -99 | 586 | 140,293 |
| Year 2018 | | | | | | | | | | | | |
| January | 29,517 | 2,753 | 92 | 46,793 | 304 | 35,283 | 1,665 | 2,972 | 26,648 | -72 | 582 | 146,536 |
| February | 20,233 | 119 | 95 | 42,294 | 313 | 30,849 | 1,804 | 3,639 | 24,057 | -89 | 550 | 123,864 |
| March | 21,362 | 174 | 41 | 46,971 | 337 | 31,770 | 1,870 | 4,574 | 27,192 | -82 | 569 | 134,779 |
| April | 17,448 | 190 | 39 | 44,759 | 306 | 28,553 | 2,095 | 5,525 | 26,408 | -82 | 534 | 125,774 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 82,910 | 1,192 | 377 | 182,540 | 1,301 | 126,307 | 7,969 | 8,510 | 82,165 | -325 | 2,231 | 495,177 |
| 2017 | 94,290 | 801 | 395 | 150,372 | 1,290 | 121,271 | 7,911 | 12,797 | 95,043 | -317 | 2,116 | 485,968 |
| 2018 | 88,560 | 3,235 | 268 | 180,817 | 1,258 | 126,455 | 7,434 | 16,710 | 104,304 | -325 | 2,235 | 530,953 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 318,643 | 2,968 | 1,419 | 592,432 | 3,747 | 376,259 | 18,481 | 37,789 | 246,432 | -1,049 | 6,826 | 1,603,947 |
| 2018 | 298,668 | 5,670 | 886 | 588,885 | 3,981 | 385,648 | 21,108 | 52,727 | 269,150 | -1,055 | 6,629 | 1,632,297 |

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, 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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 1.2.C. Net Generation by Energy Source: Commercial Sector, 2008-April 2018**
**(Thousand Megawatthours)**

| | Generation at Utility Scale Facilities | | | | | | | | | | | | Small Scale Generation | Net Generation From Utility and Small Scale Facilities | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Solar | Renewable Sources Excluding Hydroelectric and Solar | Hydroelectric Pumped Storage | Other | Total Generation at Utility Scale Facilities | Estimated Solar Photovoltaic | Estimated Total Solar Photovoltaic | Estimated Total Solar |
| Annual Totals | | | | | | | | | | | | | | | |
| 2008 | 1,261 | 136 | 6 | 4,188 | 0 | 0 | 60 | 0 | 1,555 | 0 | 720 | 7,926 | N/A | N/A | N/A |
| 2009 | 1,096 | 157 | 5 | 4,225 | 0 | 0 | 71 | 0 | 1,769 | 0 | 842 | 8,165 | N/A | N/A | N/A |
| 2010 | 1,111 | 117 | 7 | 4,725 | 3 | 0 | 80 | 5 | 1,709 | 0 | 834 | 8,592 | N/A | N/A | N/A |
| 2011 | 1,049 | 86 | 3 | 5,487 | 3 | 0 | 26 | 84 | 2,392 | 0 | 950 | 10,080 | N/A | N/A | N/A |
| 2012 | 883 | 191 | 6 | 6,603 | 0 | 0 | 28 | 148 | 2,397 | 0 | 1,046 | 11,301 | N/A | N/A | N/A |
| 2013 | 839 | 118 | 5 | 7,154 | 0 | 0 | 44 | 294 | 2,662 | 0 | 1,118 | 12,234 | N/A | N/A | N/A |
| 2014 | 595 | 247 | 9 | 7,227 | 0 | 0 | 38 | 371 | 2,862 | 0 | 1,171 | 12,520 | 5,146 | 5,516 | 5,516 |
| 2015 | 509 | 183 | 8 | 7,471 | 0 | 0 | 35 | 416 | 2,803 | 0 | 1,170 | 12,595 | 5,689 | 6,106 | 6,106 |
| 2016 | 383 | 77 | 6 | 7,730 | 0 | 0 | 217 | 529 | 2,697 | 0 | 1,068 | 12,706 | 6,158 | 6,687 | 6,687 |
| 2017 | 335 | 106 | 8 | 7,512 | 0 | 0 | 243 | 578 | 2,642 | 0 | 1,095 | 12,518 | 7,700 | 8,277 | 8,277 |
| Year 2016 | | | | | | | | | | | | | | | |
| January | 43 | 8 | 1 | 605 | 0 | 0 | 21 | 26 | 230 | 0 | 89 | 1,022 | 346 | 373 | 373 |
| February | 45 | 8 | 1 | 570 | 0 | 0 | 18 | 39 | 210 | 0 | 75 | 967 | 398 | 437 | 437 |
| March | 46 | 3 | 1 | 579 | 0 | 0 | 22 | 44 | 225 | 0 | 90 | 1,011 | 520 | 564 | 564 |
| April | 24 | 6 | 0 | 551 | 0 | 0 | 15 | 46 | 221 | 0 | 97 | 961 | 566 | 612 | 612 |
| May | 20 | 6 | 0 | 607 | 0 | 0 | 12 | 48 | 230 | 0 | 96 | 1,019 | 616 | 663 | 663 |
| June | 23 | 5 | 0 | 692 | 0 | 0 | 13 | 53 | 220 | 0 | 83 | 1,089 | 623 | 676 | 676 |
| July | 24 | 8 | 1 | 831 | 0 | 0 | 15 | 55 | 234 | 0 | 96 | 1,263 | 640 | 696 | 696 |
| August | 26 | 7 | 0 | 859 | 0 | 0 | 19 | 58 | 234 | 0 | 95 | 1,298 | 620 | 677 | 677 |
| Sept | 29 | 4 | 0 | 700 | 0 | 0 | 23 | 48 | 223 | 0 | 87 | 1,114 | 556 | 605 | 605 |
| October | 27 | 5 | 0 | 617 | 0 | 0 | 21 | 42 | 218 | 0 | 90 | 1,021 | 493 | 536 | 536 |
| November | 35 | 8 | 0 | 521 | 0 | 0 | 17 | 36 | 224 | 0 | 85 | 927 | 393 | 428 | 428 |
| December | 42 | 8 | 1 | 598 | 0 | 0 | 21 | 33 | 228 | 0 | 85 | 1,015 | 387 | 420 | 420 |
| Year 2017 | | | | | | | | | | | | | | | |
| January | 41 | 14 | 1 | 648 | 0 | 0 | 23 | 22 | 224 | 0 | 85 | 1,057 | 414 | 436 | 436 |
| February | 32 | 8 | 1 | 566 | 0 | 0 | NM | 26 | 203 | 0 | 78 | 934 | 454 | 480 | 480 |
| March | 32 | 10 | 1 | 638 | 0 | 0 | NM | 48 | 224 | 0 | 87 | 1,066 | 630 | 679 | 679 |
| April | 19 | 6 | 0 | 532 | 0 | 0 | NM | 50 | 214 | 0 | 87 | 934 | 700 | 750 | 750 |
| May | 19 | 7 | 0 | 583 | 0 | 0 | NM | 65 | 233 | 0 | 101 | 1,036 | 774 | 838 | 838 |
| June | 23 | 6 | 0 | 645 | 0 | 0 | NM | 71 | 215 | 0 | 90 | 1,075 | 781 | 852 | 852 |
| July | 29 | 8 | 0 | 703 | 0 | 0 | NM | 63 | 226 | 0 | 100 | 1,150 | 818 | 881 | 881 |
| August | 27 | 9 | 1 | 698 | 0 | 0 | NM | 60 | 225 | 0 | 101 | 1,137 | 798 | 858 | 858 |
| Sept | 27 | 8 | 1 | 651 | 0 | 0 | 14 | 58 | 208 | 0 | 90 | 1,058 | 713 | 772 | 772 |
| October | 24 | 7 | 1 | 627 | 0 | 0 | NM | 53 | 219 | 0 | 95 | 1,039 | 633 | 686 | 686 |
| November | 27 | 8 | 1 | 595 | 0 | 0 | NM | 31 | 221 | 0 | 88 | 986 | 501 | 532 | 532 |
| December | 36 | NM | 1 | 626 | 0 | 0 | NM | 29 | 229 | 0 | 92 | 1,046 | 485 | 514 | 514 |
| Year 2018 | | | | | | | | | | | | | | | |
| January | 42 | NM | 1 | 640 | 0 | 0 | NM | 29 | 221 | 0 | 85 | 1,078 | 540 | 569 | 569 |
| February | 30 | 8 | 1 | 588 | 0 | 0 | NM | 39 | 198 | 0 | 73 | 959 | 594 | 632 | 632 |
| March | 25 | 9 | 1 | 610 | 0 | 0 | NM | 46 | 222 | 0 | 84 | 1,021 | 779 | 825 | 825 |
| April | 21 | 9 | 0 | 591 | 0 | 0 | NM | 58 | 214 | 0 | 82 | 1,003 | 863 | 921 | 921 |
| Year to Date | | | | | | | | | | | | | | | |
| 2016 | 157 | 25 | 4 | 2,306 | 0 | 0 | 76 | 156 | 886 | 0 | 351 | 3,961 | 1,830 | 1,986 | 1,986 |
| 2017 | 124 | 37 | 3 | 2,384 | 0 | 0 | 94 | 147 | 865 | 0 | 338 | 3,991 | 2,198 | 2,345 | 2,345 |
| 2018 | 119 | 63 | 4 | 2,429 | 0 | 0 | 94 | 172 | 855 | 0 | 325 | 4,060 | 2,775 | 2,947 | 2,947 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | | | | |
| 2017 | 350 | 89 | 5 | 7,808 | 0 | 0 | NM | 521 | 2,675 | 0 | 1,054 | 12,737 | 6,525 | 7,046 | 7,046 |
| 2018 | 330 | NM | 9 | 7,557 | 0 | 0 | NM | 603 | 2,632 | 0 | 1,082 | 12,588 | 8,277 | 8,880 | 8,880 |

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, 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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

**Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2008-April 2018**
**(Thousand Megawatthours)**

| | Generation at Utility Scale Facilities | | | | | | | | | | | | Small Scale Generation | Net Generation From Utility and Small Scale Facilities | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Period | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gas | Nuclear | Hydroelectric Conventional | Solar | Renewable Sources Excluding Hydroelectric and Solar | Hydroelectric Pumped Storage | Other | Total Generation at Utility Scale Facilities | Estimated Solar Photovoltaic | Estimated Total Solar Photovoltaic | Estimated Total Solar |
| Annual Totals | | | | | | | | | | | | | | | |
| 2008 | 15,703 | 1,555 | 1,664 | 76,421 | 8,507 | 0 | 1,676 | 0 | 27,462 | 0 | 4,125 | 137,113 | N/A | N/A | N/A |
| 2009 | 13,686 | 1,474 | 1,489 | 75,748 | 7,574 | 0 | 1,868 | 0 | 26,033 | 0 | 4,457 | 132,329 | N/A | N/A | N/A |
| 2010 | 18,441 | 844 | 1,414 | 81,583 | 8,343 | 0 | 1,668 | 2 | 26,574 | 0 | 5,214 | 144,082 | N/A | N/A | N/A |
| 2011 | 14,490 | 657 | 1,234 | 81,911 | 8,624 | 0 | 1,799 | 7 | 27,612 | 0 | 5,541 | 141,875 | N/A | N/A | N/A |
| 2012 | 12,603 | 563 | 2,359 | 86,500 | 8,913 | 0 | 2,353 | 14 | 27,693 | 0 | 5,108 | 146,107 | N/A | N/A | N/A |
| 2013 | 12,554 | 495 | 2,036 | 88,733 | 8,531 | 0 | 3,463 | 17 | 29,074 | 0 | 5,113 | 150,015 | N/A | N/A | N/A |
| 2014 | 12,341 | 544 | 1,389 | 86,209 | 8,664 | 0 | 1,282 | 16 | 28,659 | 0 | 4,978 | 144,083 | 1,139 | 1,156 | 1,156 |
| 2015 | 10,896 | 563 | 990 | 88,355 | 9,401 | 0 | 1,410 | 21 | 28,614 | 0 | 5,462 | 145,712 | 1,451 | 1,472 | 1,472 |
| 2016 | 9,103 | 503 | 909 | 91,197 | 8,895 | 0 | 1,269 | 27 | 28,663 | 0 | 5,324 | 145,890 | 2,060 | 2,087 | 2,087 |
| 2017 | 8,074 | 437 | 776 | 89,188 | 9,982 | 0 | 1,413 | 54 | 29,138 | 0 | 4,968 | 144,028 | 2,518 | 2,572 | 2,572 |
| Year 2016 | | | | | | | | | | | | | | | |
| January | 793 | 45 | 91 | 7,653 | 851 | 0 | 130 | 1 | 2,492 | 0 | 442 | 12,497 | 113 | 115 | 115 |
| February | 750 | 45 | 76 | 7,133 | 763 | 0 | 115 | 2 | 2,317 | 0 | 396 | 11,597 | 124 | 126 | 126 |
| March | 781 | 39 | 63 | 7,462 | 837 | 0 | 142 | 2 | 2,381 | 0 | 409 | 12,117 | 171 | 173 | 173 |
| April | 670 | 37 | 50 | 7,067 | 815 | 0 | 128 | 2 | 2,192 | 0 | 424 | 11,386 | 186 | 189 | 189 |
| May | 740 | 51 | 87 | 7,341 | 740 | 0 | 119 | 3 | 2,350 | 0 | 456 | 11,886 | 206 | 208 | 208 |
| June | 814 | 44 | 81 | 7,661 | 692 | 0 | 99 | 3 | 2,391 | 0 | 463 | 12,248 | 206 | 209 | 209 |
| July | 873 | 48 | 79 | 8,165 | 731 | 0 | 104 | 3 | 2,501 | 0 | 486 | 12,989 | 214 | 217 | 217 |
| August | 847 | 37 | 81 | 8,291 | 732 | 0 | 92 | 3 | 2,489 | 0 | 503 | 13,075 | 209 | 212 | 212 |
| Sept | 762 | 41 | 60 | 7,706 | 674 | 0 | 65 | 2 | 2,312 | 0 | 489 | 12,111 | 190 | 192 | 192 |
| October | 693 | 41 | 75 | 7,527 | 679 | 0 | 88 | 2 | 2,312 | 0 | 433 | 11,851 | 174 | 176 | 176 |
| November | 630 | 37 | 87 | 7,514 | 662 | 0 | 69 | 2 | 2,433 | 0 | 418 | 11,852 | 139 | 140 | 140 |
| December | 750 | 40 | 78 | 7,678 | 720 | 0 | 117 | 1 | 2,493 | 0 | 405 | 12,283 | 128 | 129 | 129 |
| Year 2017 | | | | | | | | | | | | | | | |
| January | 757 | 41 | 57 | 7,885 | 769 | 0 | 123 | NM | 2,467 | 0 | 383 | 12,484 | 133 | NM | NM |
| February | 662 | 35 | 55 | 6,952 | 855 | 0 | 112 | NM | 2,342 | 0 | 367 | 11,381 | 147 | NM | NM |
| March | 669 | 35 | 79 | 7,372 | 885 | 0 | 127 | NM | 2,446 | 0 | 413 | 12,030 | 209 | NM | NM |
| April | 593 | 34 | 48 | 7,171 | 857 | 0 | 124 | NM | 2,353 | 0 | 413 | 11,596 | 227 | NM | NM |
| May | 637 | 35 | 76 | 7,252 | 835 | 0 | 135 | 4 | 2,315 | 0 | 400 | 11,689 | 252 | 256 | 256 |
| June | 706 | 35 | 75 | 7,489 | 867 | 0 | 124 | 8 | 2,404 | 0 | 419 | 12,127 | 254 | 262 | 262 |
| July | 699 | 34 | 87 | 7,977 | 884 | 0 | 121 | 7 | 2,600 | 0 | 490 | 12,897 | 264 | 272 | 272 |
| August | 700 | 34 | 72 | 7,634 | 951 | 0 | 109 | 7 | 2,593 | 0 | 489 | 12,590 | 258 | 265 | 265 |
| Sept | 652 | 32 | 56 | 6,993 | 787 | 0 | 98 | 6 | 2,287 | 0 | 390 | 11,301 | 235 | 241 | 241 |
| October | 680 | 37 | 45 | 7,087 | 698 | 0 | 102 | 6 | 2,346 | 0 | 372 | 11,373 | 214 | 220 | 220 |
| November | 634 | 38 | 74 | 7,362 | 834 | 0 | 120 | 4 | 2,373 | 0 | 408 | 11,846 | 170 | 174 | 174 |
| December | 685 | 47 | 51 | 8,013 | 759 | 0 | 119 | NM | 2,613 | 0 | 423 | 12,714 | 155 | NM | NM |
| Year 2018 | | | | | | | | | | | | | | | |
| January | 756 | 67 | 52 | 7,968 | 730 | 0 | 113 | NM | 2,552 | 0 | 411 | 12,652 | 164 | NM | NM |
| February | 662 | 40 | 46 | 7,071 | 762 | 0 | 114 | 5 | 2,327 | 0 | 340 | 11,368 | 172 | 178 | 178 |
| March | 681 | 40 | 60 | 7,156 | 839 | 0 | 124 | 6 | 2,472 | 0 | 413 | 11,792 | 241 | 247 | 247 |
| April | 599 | 33 | 65 | 7,211 | 642 | 0 | 121 | 8 | 2,331 | 0 | 384 | 11,394 | 263 | 270 | 270 |
| Year to Date | | | | | | | | | | | | | | | |
| 2016 | 2,994 | 165 | 281 | 29,314 | 3,265 | 0 | 516 | 8 | 9,382 | 0 | 1,671 | 47,596 | 595 | 603 | 603 |
| 2017 | 2,681 | 145 | 240 | 29,381 | 3,366 | 0 | 486 | 8 | 9,608 | 0 | 1,576 | 47,492 | 716 | 724 | 724 |
| 2018 | 2,698 | 181 | 223 | 29,406 | 2,974 | 0 | 472 | 23 | 9,682 | 0 | 1,548 | 47,206 | 840 | 863 | 863 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | | | | |
| 2017 | 8,789 | 483 | 868 | 91,264 | 8,996 | 0 | 1,240 | NM | 28,889 | 0 | 5,229 | 145,786 | 2,181 | NM | NM |
| 2018 | 8,091 | 472 | 759 | 89,213 | 9,590 | 0 | 1,399 | NM | 29,212 | 0 | 4,940 | 143,743 | 2,642 | NM | NM |

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, 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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

## Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-April 2018 (Thousand Megawatthours)

| | Small Scale Generation |
|---|---|
| **Period** | **Estimated Small Scale Solar Photovoltaic Generation** |
| Annual Totals | |
| 2014 | 4,947 |
| 2015 | 6,999 |
| 2016 | 10,595 |
| 2017 | 13,922 |
| Year 2016 | |
| January | 520 |
| February | 622 |
| March | 835 |
| April | 951 |
| May | 1,058 |
| June | 1,099 |
| July | 1,146 |
| August | 1,113 |
| Sept | 989 |
| October | 884 |
| November | 726 |
| December | 653 |
| Year 2017 | |
| January | 697 |
| February | 783 |
| March | 1,147 |
| April | 1,284 |
| May | 1,415 |
| June | 1,468 |
| July | 1,495 |
| August | 1,446 |
| Sept | 1,292 |
| October | 1,156 |
| November | 903 |
| December | 837 |
| Year 2018 | |
| January | 951 |
| February | 1,008 |
| March | 1,395 |
| April | 1,596 |
| Year to Date | |
| 2016 | 2,927 |
| 2017 | 3,910 |
| 2018 | 4,949 |
| Rolling 12 Months Ending in April | |
| 2017 | 11,578 |
| 2018 | 14,961 |

See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
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:
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

**Table 1.3.A. Utility Scale Facility Net Generation by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 7,577 | 6,621 | 14.4% | 248 | 146 | 6,997 | 6,158 | 103 | 86 | 230 | 231 |
| Connecticut | 3,015 | 2,073 | 45.4% | 8 | 8 | 2,932 | 2,002 | 34 | 26 | 41 | 37 |
| Maine | 910 | 915 | -0.5% | 0 | 0 | 738 | 728 | 11 | 18 | 162 | 169 |
| Massachusetts | 1,634 | 2,317 | -29.5% | 48 | NM | 1,515 | 2,230 | 47 | 36 | 24 | 22 |
| New Hampshire | 1,341 | 777 | 72.6% | 112 | 31 | 1,220 | 742 | 6 | 1 | 3 | 3 |
| Rhode Island | 487 | 362 | 34.4% | 0 | 1 | 482 | 358 | 5 | 4 | 0 | 0 |
| Vermont | 190 | 176 | 7.8% | 79 | 77 | 110 | 99 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 30,673 | 28,637 | 7.1% | 2,726 | 2,600 | 27,405 | 25,537 | 184 | 169 | 358 | 330 |
| New Jersey | 5,850 | 5,562 | 5.2% | 20 | 10 | 5,719 | 5,442 | 58 | 53 | 53 | 57 |
| New York | 9,610 | 9,147 | 5.1% | 2,693 | 2,578 | 6,744 | 6,416 | 98 | 83 | 76 | 70 |
| Pennsylvania | 15,213 | 13,929 | 9.2% | 14 | 12 | 14,942 | 13,680 | 28 | 33 | 229 | 204 |
| East North Central | 43,854 | 42,927 | 2.2% | 17,311 | 17,586 | 25,551 | 24,292 | 142 | 131 | 849 | 918 |
| Illinois | 13,719 | 14,164 | -3.1% | 360 | 301 | 13,104 | 13,603 | 30 | 24 | 225 | 237 |
| Indiana | 8,411 | 6,797 | 23.7% | 6,385 | 5,659 | 1,684 | 726 | 21 | 19 | 321 | 394 |
| Michigan | 8,252 | 8,625 | -4.3% | 5,192 | 6,510 | 2,884 | 1,956 | 64 | 59 | 111 | 100 |
| Ohio | 8,868 | 9,285 | -4.5% | 2,051 | 2,003 | 6,738 | 7,200 | 18 | 19 | 61 | 62 |
| Wisconsin | 4,605 | 4,056 | 13.5% | 3,323 | 3,113 | 1,141 | 808 | 10 | 10 | 130 | 125 |
| West North Central | 26,881 | 24,708 | 8.8% | 20,820 | 18,940 | 5,688 | 5,443 | 50 | 47 | 322 | 277 |
| Iowa | 5,023 | 4,536 | 10.7% | 3,671 | 3,214 | 1,169 | 1,175 | 18 | 17 | 165 | 130 |
| Kansas | 3,504 | 3,674 | -4.6% | 1,804 | 1,948 | 1,695 | 1,723 | NM | NM | NM | NM |
| Minnesota | 4,931 | 3,757 | 31.3% | 3,671 | 2,624 | 1,140 | 1,006 | 15 | 13 | 105 | 113 |
| Missouri | 6,139 | 6,387 | -3.9% | 5,654 | 6,074 | 467 | 296 | 14 | 14 | 4 | 4 |
| Nebraska | 2,828 | 2,363 | 19.7% | 2,357 | 1,881 | 439 | 458 | 2 | 2 | 31 | 21 |
| North Dakota | 3,596 | 3,084 | 16.6% | 2,985 | 2,500 | 597 | 577 | 0 | 0 | 14 | NM |
| South Dakota | 860 | 907 | -5.2% | 679 | 698 | 181 | 209 | NM | NM | 0 | 0 |
| South Atlantic | 57,631 | 59,106 | -2.5% | 45,810 | 48,644 | 10,204 | 8,794 | 105 | 99 | 1,512 | 1,569 |
| Delaware | 548 | 519 | 5.6% | NM | NM | 483 | 411 | 1 | NM | 63 | 107 |
| District of Columbia | 10 | 4 | 146.9% | 0 | 0 | 0 | 4 | 10 | 0 | 0 | 0 |
| Florida | 18,468 | 18,792 | -1.7% | 17,038 | 17,132 | 987 | 1,205 | 6 | 6 | 437 | 448 |
| Georgia | 8,679 | 9,501 | -8.7% | 6,915 | 8,093 | 1,329 | 991 | NM | NM | 434 | 417 |
| Maryland | 3,578 | 2,450 | 46.1% | 401 | NM | 3,114 | 2,390 | 37 | 38 | 26 | 21 |
| North Carolina | 8,951 | 8,921 | 0.3% | 7,738 | 7,783 | 1,041 | 987 | 15 | 15 | 158 | 136 |
| South Carolina | 6,826 | 7,466 | -8.6% | 6,422 | 7,086 | 250 | 215 | 0 | 0 | 153 | 165 |
| Virginia | 6,144 | 6,600 | -6.9% | 4,154 | 5,259 | 1,773 | 1,105 | 37 | 38 | 181 | 197 |
| West Virginia | 4,427 | 4,853 | -8.8% | 3,142 | 3,290 | 1,225 | 1,486 | 0 | 0 | 60 | 77 |
| East South Central | 25,910 | 25,072 | 3.3% | 21,679 | 21,314 | 3,519 | 3,007 | 17 | 13 | 695 | 739 |
| Alabama | 10,893 | 11,056 | -1.5% | 7,726 | 8,165 | 2,838 | 2,533 | 0 | 0 | 329 | 358 |
| Kentucky | 5,017 | 4,856 | 3.3% | 4,881 | 4,802 | 93 | 9 | 0 | 0 | 42 | 45 |
| Mississippi | 4,608 | 4,208 | 9.5% | 3,888 | 3,607 | 558 | 440 | 1 | 0 | 161 | 161 |
| Tennessee | 5,393 | 4,952 | 8.9% | 5,184 | 4,741 | 30 | 25 | 16 | 13 | 163 | 174 |
| West South Central | 52,629 | 50,191 | 4.9% | 16,179 | 14,091 | 30,495 | 29,996 | 59 | 54 | 5,896 | 6,050 |
| Arkansas | 4,933 | 4,155 | 18.7% | 3,657 | 2,927 | 1,131 | 1,088 | 0 | 1 | 145 | 140 |
| Louisiana | 7,235 | 6,852 | 5.6% | 4,507 | 3,355 | 362 | 987 | 12 | NM | 2,354 | 2,505 |
| Oklahoma | 6,820 | 5,710 | 19.4% | 2,661 | 2,477 | 4,081 | 3,166 | 0 | 0 | 77 | 68 |
| Texas | 33,641 | 33,473 | 0.5% | 5,353 | 5,332 | 24,921 | 24,755 | 47 | 49 | 3,320 | 3,337 |
| Mountain | 25,453 | 24,704 | 3.0% | 18,845 | 18,496 | 6,303 | 5,920 | 47 | 48 | 259 | 240 |
| Arizona | 7,282 | 7,007 | 3.9% | 6,319 | 6,049 | 950 | 945 | 13 | 13 | 0 | 0 |
| Colorado | 4,111 | 4,024 | 2.1% | 2,877 | 2,846 | 1,225 | 1,171 | NM | NM | 6 | 5 |
| Idaho | 1,377 | 1,477 | -6.7% | 869 | 951 | 454 | 475 | 3 | 4 | 50 | 47 |
| Montana | 2,125 | 2,143 | -0.9% | 1,041 | 1,101 | 1,082 | 1,040 | 0 | 0 | 2 | 2 |
| Nevada | 2,763 | 2,518 | 9.7% | 1,818 | 1,568 | 913 | 921 | 11 | 11 | 21 | 18 |
| New Mexico | 2,499 | 2,492 | 0.3% | 1,384 | 1,738 | 1,107 | 745 | 9 | 9 | 0 | 0 |
| Utah | 2,172 | 2,081 | 4.4% | 1,809 | 1,702 | 308 | 322 | 7 | 8 | 48 | 49 |
| Wyoming | 3,125 | 2,962 | 5.5% | 2,728 | 2,541 | 264 | 302 | 0 | 0 | 133 | 119 |
| Pacific Contiguous | 30,358 | 30,544 | -0.6% | 19,611 | 20,844 | 9,276 | 8,261 | 231 | 231 | 1,241 | 1,209 |
| California | 15,034 | 15,308 | -1.8% | 6,338 | 7,232 | 7,416 | 6,807 | 220 | 221 | 1,061 | 1,049 |
| Oregon | 5,116 | 4,679 | 9.3% | 3,941 | 3,776 | 1,117 | 845 | 7 | 7 | 50 | 51 |
| Washington | 10,208 | 10,557 | -3.3% | 9,332 | 9,836 | 743 | 609 | 3 | 3 | 130 | 109 |
| Pacific Noncontiguous | 1,263 | 1,243 | 1.6% | 829 | 791 | 337 | 362 | 65 | 57 | 32 | 33 |
| Alaska | 480 | 433 | 10.7% | 418 | 377 | 22 | 18 | 30 | NM | 9 | 9 |
| Hawaii | 783 | 809 | -3.3% | 411 | 413 | 315 | 344 | 34 | 29 | 23 | 24 |
| U.S. Total | 302,229 | 293,752 | 2.9% | 164,058 | 163,451 | 125,774 | 117,771 | 1,003 | 934 | 11,394 | 11,596 |

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 preliminary. 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 1.3.B. Utility Scale Facility Net Generation

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 33,280 | 32,164 | 3.5% | 1,273 | 750 | 30,645 | 30,059 | 413 | 399 | 948 | 957 |
| Connecticut | 12,462 | 10,949 | 13.8% | 32 | 28 | 12,141 | 10,639 | 124 | 120 | 165 | 162 |
| Maine | 3,911 | 3,712 | 5.4% | 0 | 0 | 3,175 | 2,953 | 60 | 64 | 676 | 695 |
| Massachusetts | 8,778 | 10,523 | -16.6% | 185 | 112 | 8,314 | 10,149 | 183 | 173 | 96 | 90 |
| New Hampshire | 5,644 | 4,958 | 13.8% | 713 | 293 | 4,895 | 4,633 | 27 | 23 | 10 | 10 |
| Rhode Island | 1,714 | 1,323 | 29.6% | 0 | 3 | 1,696 | 1,302 | 18 | 17 | 0 | 0 |
| Vermont | 770 | 699 | 10.2% | 344 | 315 | 425 | 383 | 1 | 1 | 0 | 0 |
| Middle Atlantic | 133,655 | 126,398 | 5.7% | 11,485 | 10,895 | 119,962 | 113,294 | 728 | 701 | 1,480 | 1,507 |
| New Jersey | 24,307 | 24,003 | 1.3% | 39 | 28 | 23,810 | 23,513 | 221 | 212 | 236 | 250 |
| New York | 41,219 | 39,298 | 4.9% | 11,399 | 10,823 | 29,141 | 27,807 | 371 | 360 | 307 | 308 |
| Pennsylvania | 68,130 | 63,097 | 8.0% | 47 | 44 | 67,011 | 61,975 | 135 | 129 | 936 | 949 |
| East North Central | 197,954 | 185,653 | 6.6% | 79,469 | 77,887 | 114,181 | 103,408 | 599 | 578 | 3,705 | 3,780 |
| Illinois | 60,907 | 58,822 | 3.5% | 1,542 | 1,728 | 58,267 | 56,010 | 132 | 115 | 967 | 969 |
| Indiana | 36,315 | 32,130 | 13.0% | 27,968 | 27,095 | 6,803 | 3,382 | 82 | 76 | 1,461 | 1,576 |
| Michigan | 37,979 | 36,106 | 5.2% | 25,358 | 26,275 | 11,863 | 9,138 | 278 | 257 | 479 | 437 |
| Ohio | 41,072 | 39,122 | 5.0% | 7,832 | 7,591 | 32,941 | 31,199 | 69 | 86 | 230 | 246 |
| Wisconsin | 21,680 | 19,474 | 11.3% | 16,768 | 15,198 | 4,307 | 3,678 | 37 | 45 | 568 | 553 |
| West North Central | 117,032 | 109,484 | 6.9% | 92,443 | 87,411 | 22,907 | 20,558 | 210 | 198 | 1,471 | 1,316 |
| Iowa | 20,538 | 17,920 | 14.6% | 14,966 | 12,730 | 4,814 | 4,549 | 81 | 68 | 678 | 573 |
| Kansas | 16,675 | 16,110 | 3.5% | 10,114 | 9,951 | 6,524 | 6,142 | NM | NM | 32 | 12 |
| Minnesota | 21,463 | 18,960 | 13.2% | 16,262 | 14,418 | 4,582 | 3,920 | 65 | 64 | 554 | 558 |
| Missouri | 27,464 | 27,427 | 0.1% | 25,649 | 26,330 | 1,744 | 1,024 | 52 | 54 | 18 | 19 |
| Nebraska | 12,218 | 11,636 | 5.0% | 10,118 | 9,595 | 1,966 | 1,927 | 6 | 7 | 128 | 107 |
| North Dakota | 14,780 | 13,705 | 7.8% | 12,239 | 11,510 | 2,481 | 2,148 | 0 | 0 | 60 | 47 |
| South Dakota | 3,892 | 3,725 | 4.5% | 3,096 | 2,877 | 796 | 848 | NM | NM | 0 | 0 |
| South Atlantic | 251,404 | 242,020 | 3.9% | 205,290 | 202,579 | 39,439 | 32,656 | 414 | 405 | 6,262 | 6,380 |
| Delaware | 2,102 | 2,196 | -4.3% | 8 | NM | 1,813 | 1,714 | 3 | 2 | 278 | 477 |
| District of Columbia | 33 | 28 | 17.7% | 0 | 0 | 15 | 18 | 18 | 10 | 0 | 0 |
| Florida | 71,614 | 70,056 | 2.2% | 66,168 | 64,349 | 3,677 | 3,945 | 25 | 27 | 1,744 | 1,734 |
| Georgia | 38,994 | 38,062 | 2.4% | 32,773 | 32,154 | 4,444 | 4,216 | 4 | NM | 1,774 | 1,690 |
| Maryland | 13,808 | 9,764 | 41.4% | 972 | NM | 12,563 | 9,503 | 174 | 160 | 99 | 98 |
| North Carolina | 41,918 | 39,395 | 6.4% | 37,050 | 35,209 | 4,135 | 3,529 | 63 | 61 | 671 | 596 |
| South Carolina | 30,622 | 29,900 | 2.4% | 28,834 | 28,472 | 1,135 | 760 | 1 | 1 | 652 | 667 |
| Virginia | 30,747 | 29,651 | 3.7% | 23,622 | 24,766 | 6,245 | 3,969 | 126 | 141 | 754 | 775 |
| West Virginia | 21,565 | 22,968 | -6.1% | 15,863 | 17,623 | 5,412 | 5,002 | 0 | 0 | 290 | 343 |
| East South Central | 114,037 | 107,731 | 5.9% | 97,361 | 92,934 | 13,725 | 11,793 | 71 | 63 | 2,881 | 2,941 |
| Alabama | 44,178 | 42,712 | 3.4% | 31,938 | 31,839 | 10,845 | 9,453 | 0 | 0 | 1,394 | 1,419 |
| Kentucky | 23,170 | 22,859 | 1.4% | 22,692 | 22,572 | 287 | 92 | 0 | 0 | 192 | 196 |
| Mississippi | 20,548 | 17,852 | 15.1% | 17,451 | 15,046 | 2,493 | 2,173 | 6 | 3 | 599 | 630 |
| Tennessee | 26,141 | 24,308 | 7.5% | 25,279 | 23,478 | 100 | 74 | 65 | 60 | 696 | 696 |
| West South Central | 217,807 | 203,144 | 7.2% | 67,222 | 62,614 | 126,236 | 115,749 | 238 | 268 | 24,112 | 24,513 |
| Arkansas | 20,801 | 18,273 | 13.8% | 14,337 | 14,036 | 5,864 | 3,664 | 2 | 2 | 598 | 571 |
| Louisiana | 29,969 | 29,305 | 2.3% | 17,667 | 15,799 | 2,638 | 3,555 | 49 | 50 | 9,615 | 9,901 |
| Oklahoma | 26,494 | 23,275 | 13.8% | 11,119 | 11,377 | 15,071 | 11,614 | 0 | 0 | 305 | 284 |
| Texas | 140,543 | 132,291 | 6.2% | 24,099 | 21,402 | 102,663 | 96,916 | 186 | 215 | 13,595 | 13,758 |
| Mountain | 109,533 | 108,976 | 0.5% | 83,443 | 85,386 | 24,828 | 22,410 | 185 | 178 | 1,077 | 1,002 |
| Arizona | 30,743 | 28,806 | 6.7% | 28,052 | 26,207 | 2,638 | 2,550 | 53 | 49 | 0 | 0 |
| Colorado | 17,567 | 17,542 | 0.1% | 12,849 | 13,103 | 4,685 | 4,406 | 8 | 9 | 25 | 25 |
| Idaho | 5,682 | 5,627 | 1.0% | 3,611 | 3,723 | 1,847 | 1,692 | 17 | 17 | 206 | 195 |
| Montana | 10,256 | 9,698 | 5.8% | 4,355 | 4,293 | 5,891 | 5,394 | 0 | 0 | 10 | 11 |
| Nevada | 10,998 | 10,735 | 2.5% | 7,361 | 7,384 | 3,497 | 3,244 | 39 | 37 | 101 | 69 |
| New Mexico | 8,673 | 11,119 | -22.0% | 4,673 | 8,292 | 3,959 | 2,790 | 37 | 36 | 3 | 1 |
| Utah | 10,577 | 10,596 | -0.2% | 9,191 | 9,158 | 1,156 | 1,197 | 31 | 30 | 199 | 210 |
| Wyoming | 15,037 | 14,855 | 1.2% | 13,350 | 13,227 | 1,154 | 1,137 | 0 | 0 | 533 | 490 |
| Pacific Contiguous | 121,884 | 125,162 | -2.6% | 78,066 | 84,474 | 37,727 | 34,774 | 949 | 958 | 5,142 | 4,956 |
| California | 56,640 | 63,203 | -10.4% | 22,378 | 30,361 | 28,953 | 27,654 | 908 | 920 | 4,401 | 4,267 |
| Oregon | 22,456 | 20,693 | 8.5% | 17,184 | 16,559 | 5,033 | 3,906 | 27 | 24 | 213 | 204 |
| Washington | 42,788 | 41,267 | 3.7% | 38,504 | 37,554 | 3,741 | 3,214 | 15 | 14 | 528 | 485 |
| Pacific Noncontiguous | 5,232 | 5,127 | 2.0% | 3,547 | 3,477 | 1,302 | 1,268 | 254 | 243 | 128 | 138 |
| Alaska | 2,126 | 1,950 | 9.0% | 1,868 | 1,706 | 89 | 77 | 133 | 124 | 36 | 43 |
| Hawaii | 3,105 | 3,177 | -2.2% | 1,679 | 1,771 | 1,213 | 1,191 | 122 | 120 | 92 | 96 |
| U.S. Total | 1,301,817 | 1,245,858 | 4.5% | 719,598 | 708,407 | 530,953 | 485,968 | 4,060 | 3,991 | 47,206 | 47,492 |

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 preliminary. 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 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 135 | 55 | 145.3% | 84 | 1 | 50 | 53 | 0 | 0 | NM | NM |
| Connecticut | 45 | -2 | NM | 0 | 0 | 45 | -2 | 0 | 0 | 0 | 0 |
| Maine | 5 | NM | NM | 0 | 0 | 4 | 3 | 0 | 0 | NM | NM |
| Massachusetts | 0 | 52 | -100.0% | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| New Hampshire | 84 | 1 | NM | 84 | 1 | 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 | 3,675 | 3,451 | 6.5% | 0 | 0 | 3,654 | 3,408 | 0 | 0 | 21 | 43 |
| New Jersey | 98 | 72 | 37.5% | 0 | 0 | 98 | 72 | 0 | 0 | 0 | 0 |
| New York | 0 | 44 | -100.0% | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 22 |
| Pennsylvania | 3,577 | 3,335 | 7.3% | 0 | 0 | 3,556 | 3,314 | 0 | 0 | 21 | 21 |
| East North Central | 18,336 | 20,658 | -11.2% | 12,111 | 12,261 | 6,039 | 8,215 | 6 | NM | 180 | 178 |
| Illinois | 3,679 | 4,181 | -12.0% | 224 | 243 | 3,314 | 3,794 | NM | NM | 139 | 142 |
| Indiana | 5,790 | 4,716 | 22.8% | 5,503 | 4,623 | 282 | 91 | 4 | 1 | 0 | 0 |
| Michigan | 2,805 | 3,740 | -25.0% | 2,762 | 3,700 | 39 | 37 | 0 | 0 | NM | NM |
| Ohio | 3,728 | 5,832 | -36.1% | 1,324 | 1,538 | 2,404 | 4,293 | 0 | 0 | NM | NM |
| Wisconsin | 2,335 | 2,189 | 6.7% | 2,298 | 2,158 | 0 | 0 | 0 | 0 | 37 | 31 |
| West North Central | 12,950 | 11,405 | 13.5% | 12,749 | 11,233 | 0 | 0 | 6 | 6 | 194 | 166 |
| Iowa | 1,802 | 1,684 | 7.0% | 1,678 | 1,584 | 0 | 0 | 6 | 5 | 118 | 95 |
| Kansas | 1,321 | 689 | 91.7% | 1,321 | 689 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 1,416 | 1,136 | 24.6% | 1,379 | 1,093 | 0 | 0 | 0 | 0 | 37 | 43 |
| Missouri | 4,393 | 4,868 | -9.8% | 4,393 | 4,867 | 0 | 0 | 0 | 1 | 0 | 0 |
| Nebraska | 1,570 | 1,130 | 39.0% | 1,539 | 1,109 | 0 | 0 | 0 | 0 | 31 | 21 |
| North Dakota | 2,340 | 1,813 | 29.1% | 2,332 | 1,807 | 0 | 0 | 0 | 0 | NM | NM |
| South Dakota | 107 | 85 | 26.2% | 107 | 85 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 11,726 | 15,624 | -25.0% | 9,974 | 14,131 | 1,690 | 1,431 | 1 | 3 | 61 | 59 |
| Delaware | 0 | 8 | -100.0% | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 1,973 | 3,240 | -39.1% | 1,962 | 3,228 | 0 | 0 | 0 | 0 | NM | 11 |
| Georgia | 1,486 | 2,766 | -46.3% | 1,470 | 2,754 | 0 | 0 | 0 | 0 | NM | 13 |
| Maryland | 727 | 155 | 369.9% | 0 | 0 | 720 | 150 | 0 | 0 | 7 | 5 |
| North Carolina | 1,774 | 2,595 | -31.6% | 1,754 | 2,570 | 8 | 8 | 0 | 1 | 12 | 16 |
| South Carolina | 1,106 | 1,647 | -32.8% | 1,106 | 1,646 | 0 | 0 | 0 | 0 | 0 | 1 |
| Virginia | 711 | 757 | -6.1% | 661 | 726 | 35 | 16 | 1 | 2 | 15 | 13 |
| West Virginia | 3,948 | 4,456 | -11.4% | 3,021 | 3,207 | 927 | 1,250 | 0 | 0 | 0 | 0 |
| East South Central | 7,362 | 7,992 | -7.9% | 7,116 | 7,719 | 184 | 208 | 0 | 0 | 62 | 65 |
| Alabama | 2,213 | 2,192 | 1.0% | 2,205 | 2,188 | 0 | 0 | 0 | 0 | NM | 4 |
| Kentucky | 3,681 | 3,650 | 0.8% | 3,681 | 3,650 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 222 | 377 | -41.0% | 38 | 169 | 184 | 208 | 0 | 0 | 0 | 0 |
| Tennessee | 1,245 | 1,774 | -29.8% | 1,192 | 1,712 | 0 | 0 | 0 | 0 | 53 | 62 |
| West South Central | 10,047 | 12,622 | -20.4% | 5,219 | 5,127 | 4,809 | 7,466 | 0 | 0 | 19 | 29 |
| Arkansas | 1,808 | 1,597 | 13.2% | 1,638 | 1,593 | 166 | 0 | 0 | 0 | 4 | 3 |
| Louisiana | 344 | 536 | -35.9% | 315 | 155 | 29 | 381 | 0 | 0 | 0 | 0 |
| Oklahoma | 768 | 778 | -1.3% | 653 | 634 | 100 | 118 | 0 | 0 | 15 | 26 |
| Texas | 7,127 | 9,711 | -26.6% | 2,613 | 2,744 | 4,514 | 6,966 | 0 | 0 | 0 | 0 |
| Mountain | 9,085 | 9,555 | -4.9% | 8,150 | 8,617 | 898 | 909 | 0 | 0 | 36 | 30 |
| Arizona | 1,873 | 1,828 | 2.5% | 1,873 | 1,828 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 1,766 | 1,822 | -3.0% | 1,765 | 1,821 | 0 | 0 | 0 | 0 | 1 | 1 |
| Idaho | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| Montana | 821 | 781 | 5.1% | 0 | 18 | 821 | 763 | 0 | 0 | 0 | 0 |
| Nevada | 15 | 70 | -78.3% | -2 | -2 | 18 | 72 | 0 | 0 | 0 | 0 |
| New Mexico | 803 | 1,400 | -42.6% | 803 | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 1,295 | 1,344 | -3.7% | 1,277 | 1,329 | 18 | 15 | 0 | 0 | 0 | 0 |
| Wyoming | 2,509 | 2,309 | 8.7% | 2,434 | 2,222 | 42 | 59 | 0 | 0 | 33 | 27 |
| Pacific Contiguous | 25 | 22 | 11.7% | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 22 |
| California | 22 | 19 | 12.9% | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 19 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 3 | 3 | 3.4% | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Pacific Noncontiguous | 149 | 149 | 0.1% | NM | NM | 124 | 120 | 9 | NM | 0 | 0 |
| Alaska | NM | NM | NM | NM | NM | 16 | NM | 9 | NM | 0 | 0 |
| Hawaii | 108 | 108 | 0.0% | 0 | 0 | 108 | 108 | 0 | 0 | 0 | 0 |
| U.S. Total | 73,489 | 81,533 | -9.9% | 55,421 | 59,111 | 17,448 | 21,810 | 21 | 19 | 599 | 593 |

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 preliminary. 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 1.4.B. Utility Scale Facility Net Generation from Coal

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 707 | 1,295 | -45.4% | 446 | 102 | 255 | 1,187 | 0 | 0 | NM | NM |
| Connecticut | 230 | 76 | 202.0% | 0 | 0 | 230 | 76 | 0 | 0 | 0 | 0 |
| Maine | 32 | 33 | -4.4% | 0 | 0 | 25 | 26 | 0 | 0 | NM | NM |
| Massachusetts | 0 | 1,084 | -100.0% | 0 | 0 | 0 | 1,084 | 0 | 0 | 0 | 0 |
| New Hampshire | 446 | 102 | 338.4% | 446 | 102 | 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 | 16,548 | 16,066 | 3.0% | 0 | 0 | 16,444 | 15,860 | 0 | 0 | 104 | 206 |
| New Jersey | 473 | 412 | 15.0% | 0 | 0 | 473 | 412 | 0 | 0 | 0 | 0 |
| New York | 384 | 317 | 21.2% | 0 | 0 | 373 | 211 | 0 | 0 | 11 | 106 |
| Pennsylvania | 15,691 | 15,338 | 2.3% | 0 | 0 | 15,598 | 15,238 | 0 | 0 | 93 | 100 |
| East North Central | 89,430 | 91,024 | -1.8% | 53,996 | 53,695 | 34,597 | 36,543 | 26 | 18 | 811 | 767 |
| Illinois | 19,481 | 18,678 | 4.3% | 1,244 | 1,407 | 17,617 | 16,667 | 14 | 13 | 606 | 591 |
| Indiana | 25,324 | 22,998 | 10.1% | 24,056 | 22,225 | 1,256 | 768 | 12 | 6 | 0 | 0 |
| Michigan | 13,176 | 13,944 | -5.5% | 12,998 | 13,775 | 148 | 153 | 0 | 0 | 29 | 16 |
| Ohio | 20,637 | 24,327 | -15.2% | 5,056 | 5,367 | 15,576 | 18,956 | 0 | 0 | 4 | NM |
| Wisconsin | 10,813 | 11,076 | -2.4% | 10,642 | 10,921 | 0 | 0 | 0 | 0 | 171 | 155 |
| West North Central | 59,017 | 56,995 | 3.5% | 58,082 | 56,123 | 0 | 1 | 32 | 46 | 902 | 827 |
| Iowa | 7,883 | 7,055 | 11.7% | 7,341 | 6,567 | 0 | 0 | 27 | 30 | 516 | 458 |
| Kansas | 5,936 | 5,322 | 11.5% | 5,936 | 5,322 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 7,433 | 7,096 | 4.8% | 7,212 | 6,864 | 0 | 0 | 0 | 1 | 221 | 231 |
| Missouri | 20,229 | 21,608 | -6.4% | 20,224 | 21,593 | 0 | 1 | 5 | 15 | 0 | 0 |
| Nebraska | 7,197 | 6,554 | 9.8% | 7,068 | 6,447 | 0 | 0 | 0 | 0 | 128 | 107 |
| North Dakota | 9,491 | 8,733 | 8.7% | 9,455 | 8,702 | 0 | 0 | 0 | 0 | 37 | 31 |
| South Dakota | 847 | 627 | 34.9% | 847 | 627 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 60,472 | 64,200 | -5.8% | 51,319 | 57,745 | 8,864 | 6,167 | 20 | 24 | 269 | 264 |
| Delaware | 82 | 64 | 27.8% | 0 | 0 | 82 | 64 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 8,585 | 12,393 | -30.7% | 8,545 | 12,350 | 0 | 0 | 0 | 0 | 40 | 43 |
| Georgia | 8,458 | 9,100 | -7.0% | 8,393 | 9,049 | 0 | 0 | 0 | 0 | 65 | 50 |
| Maryland | 4,159 | 1,760 | 136.3% | 0 | 0 | 4,130 | 1,733 | 0 | 0 | 29 | 26 |
| North Carolina | 10,411 | 9,926 | 4.9% | 10,311 | 9,805 | 30 | 38 | 15 | 18 | 55 | 66 |
| South Carolina | 5,485 | 5,809 | -5.6% | 5,476 | 5,801 | 0 | 0 | 0 | 0 | 10 | 8 |
| Virginia | 3,425 | 3,686 | -7.1% | 3,141 | 3,472 | 209 | 137 | 5 | 7 | 70 | 70 |
| West Virginia | 19,866 | 21,463 | -7.4% | 15,453 | 17,268 | 4,412 | 4,195 | 0 | 0 | 0 | 0 |
| East South Central | 35,761 | 37,175 | -3.8% | 34,687 | 36,067 | 821 | 852 | 0 | 0 | 254 | 255 |
| Alabama | 10,633 | 9,715 | 9.4% | 10,612 | 9,699 | 0 | 0 | 0 | 0 | 21 | 15 |
| Kentucky | 16,835 | 18,553 | -9.3% | 16,835 | 18,553 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 1,213 | 1,530 | -20.7% | 392 | 678 | 821 | 852 | 0 | 0 | 0 | 0 |
| Tennessee | 7,081 | 7,377 | -4.0% | 6,848 | 7,137 | 0 | 0 | 0 | 0 | 233 | 240 |
| West South Central | 46,422 | 54,521 | -14.9% | 25,384 | 26,966 | 20,940 | 27,434 | 0 | 0 | 98 | 122 |
| Arkansas | 7,863 | 7,779 | 1.1% | 6,345 | 7,191 | 1,500 | 571 | 0 | 0 | 18 | 17 |
| Louisiana | 2,939 | 3,555 | -17.3% | 1,838 | 1,862 | 1,101 | 1,693 | 0 | 0 | 0 | 0 |
| Oklahoma | 4,702 | 5,258 | -10.6% | 4,177 | 4,738 | 445 | 415 | 0 | 0 | 80 | 105 |
| Texas | 30,918 | 37,929 | -18.5% | 13,024 | 13,175 | 17,894 | 24,754 | 0 | 0 | 0 | 0 |
| Mountain | 45,097 | 50,012 | -9.8% | 39,544 | 44,900 | 5,405 | 4,985 | 0 | 0 | 148 | 127 |
| Arizona | 9,339 | 9,264 | 0.8% | 9,339 | 9,264 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 8,010 | 9,441 | -15.2% | 8,005 | 9,437 | 0 | 0 | 0 | 0 | 5 | 4 |
| Idaho | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| Montana | 4,856 | 4,410 | 10.1% | 66 | 96 | 4,788 | 4,312 | 0 | 0 | 2 | 2 |
| Nevada | 259 | 553 | -53.1% | -13 | 241 | 272 | 311 | 0 | 0 | 0 | 0 |
| New Mexico | 2,970 | 6,632 | -55.2% | 2,970 | 6,632 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 7,174 | 7,334 | -2.2% | 7,046 | 7,214 | 129 | 120 | 0 | 0 | 0 | 0 |
| Wyoming | 12,480 | 12,371 | 0.9% | 12,132 | 12,017 | 216 | 242 | 0 | 0 | 132 | 112 |
| Pacific Contiguous | 823 | 1,470 | -44.0% | 0 | 554 | 718 | 810 | 0 | 0 | 105 | 107 |
| California | 97 | 98 | -1.1% | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 98 |
| Oregon | 0 | 554 | -100.0% | 0 | 554 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 726 | 819 | -11.3% | 0 | 0 | 718 | 810 | 0 | 0 | 9 | 9 |
| Pacific Noncontiguous | 649 | 574 | 13.0% | NM | NM | 517 | 450 | 40 | 36 | 0 | 0 |
| Alaska | 198 | 179 | 10.3% | NM | NM | 66 | 55 | 40 | 36 | 0 | 0 |
| Hawaii | 451 | 395 | 14.2% | 0 | 0 | 451 | 395 | 0 | 0 | 0 | 0 |
| U.S. Total | 354,926 | 373,334 | -4.9% | 263,549 | 276,240 | 88,560 | 94,290 | 119 | 124 | 2,698 | 2,681 |

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 preliminary. 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 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 22 | 9 | 143.9% | 2 | 2 | 16 | 3 | 3 | 3 | 1 | NM |
| Connecticut | 2 | 2 | 7.7% | 1 | 0 | 1 | NM | NM | NM | 0 | 0 |
| Maine | 1 | 1 | 42.8% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | NM |
| Massachusetts | 15 | 3 | 438.1% | NM | NM | 13 | 1 | 1 | 2 | 0 | 0 |
| New Hampshire | 2 | 2 | 10.1% | 1 | 1 | NM | NM | 1 | 1 | 0 | 0 |
| Rhode Island | NM | 1 | NM | 0 | 1 | NM | NM | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -19.1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 49 | 26 | 86.2% | 5 | 5 | 37 | 15 | 3 | NM | 3 | 5 |
| New Jersey | 3 | 1 | 318.6% | NM | NM | 1 | 1 | 2 | 0 | 0 | 0 |
| New York | 32 | 14 | 124.1% | 5 | 5 | 23 | 3 | NM | NM | 3 | 5 |
| Pennsylvania | 14 | 11 | 24.3% | 0 | 0 | 13 | 11 | 0 | 0 | NM | NM |
| East North Central | 42 | 36 | 17.7% | 25 | 24 | 15 | 10 | 0 | NM | 2 | 1 |
| Illinois | 5 | 4 | 28.0% | 1 | 0 | 4 | 4 | NM | NM | 0 | 0 |
| Indiana | 6 | 12 | -52.0% | 5 | 12 | 0 | 0 | 0 | 0 | 1 | 1 |
| Michigan | 13 | 6 | 98.6% | 12 | 6 | 0 | 0 | 0 | 0 | 0 | NM |
| Ohio | 15 | 12 | 25.7% | 4 | 5 | 11 | 7 | 0 | 0 | 0 | 0 |
| Wisconsin | 3 | NM | NM | 3 | NM | 0 | 0 | 0 | 0 | NM | NM |
| West North Central | 36 | 35 | 3.9% | 35 | 34 | 1 | NM | 0 | 0 | 0 | 0 |
| Iowa | 22 | 17 | 25.9% | 22 | 17 | NM | 0 | 0 | 0 | 0 | 0 |
| Kansas | 3 | 8 | -55.4% | 3 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 3 | 3 | 0.0% | NM | NM | 1 | NM | 0 | 0 | 0 | 0 |
| Missouri | 4 | 5 | -25.0% | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 3 | 1 | 138.7% | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | NM | NM | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 |
| South Atlantic | 90 | 137 | -34.2% | 70 | 119 | 12 | 11 | 3 | 1 | NM | 6 |
| Delaware | NM | 2 | NM | 0 | 0 | NM | 2 | 0 | 0 | 0 | 0 |
| District of Columbia | NM | 0 | -- | 0 | 0 | 0 | 0 | NM | 0 | 0 | 0 |
| Florida | 29 | 70 | -58.9% | 27 | 68 | 0 | NM | 0 | 0 | NM | NM |
| Georgia | 4 | 11 | -65.0% | 2 | 7 | NM | NM | 0 | 0 | NM | NM |
| Maryland | 5 | 4 | 30.6% | 0 | NM | 5 | 3 | 0 | 0 | 0 | 0 |
| North Carolina | 15 | 16 | -6.6% | 13 | 15 | NM | NM | 0 | 0 | NM | NM |
| South Carolina | 6 | 8 | -20.9% | 5 | 7 | 0 | 0 | 0 | 0 | 1 | 1 |
| Virginia | 22 | 16 | 37.0% | 11 | NM | 7 | 2 | 2 | 1 | NM | NM |
| West Virginia | 11 | 10 | 9.8% | 11 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 12 | 12 | 1.6% | 11 | 11 | NM | 0 | 0 | 0 | NM | NM |
| Alabama | NM | 2 | NM | 1 | 2 | NM | NM | 0 | 0 | NM | NM |
| Kentucky | 5 | 7 | -34.6% | 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 2 | NM | NM | 1 | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 4 | 3 | 37.0% | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 19 | 9 | 113.5% | 13 | 5 | 6 | 3 | 0 | 0 | 0 | 1 |
| Arkansas | 3 | 1 | 126.5% | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 5 | NM | NM | 5 | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 2 | 1 | 147.5% | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 9 | 6 | 37.3% | 5 | 3 | 3 | 3 | 0 | 0 | 0 | 0 |
| Mountain | 16 | 18 | -14.9% | 14 | 17 | 1 | 1 | 0 | 0 | 0 | 0 |
| Arizona | 5 | 4 | 22.3% | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 1 | NM | NM | 1 | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | NM | 1 | NM | NM | NM | 0 | 1 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 21.7% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | NM | 3 | NM | NM | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 5 | 5 | -6.6% | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 3 | 5 | -43.4% | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 4 | 4 | -19.1% | 3 | 3 | 0 | 1 | 0 | 0 | NM | 1 |
| California | 3 | 4 | -21.7% | 3 | 3 | 0 | 1 | 0 | 0 | NM | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | NM | 1 | NM | NM | NM | 0 | 0 | 0 | 0 | NM | NM |
| Pacific Noncontiguous | 575 | 597 | -3.8% | 454 | 444 | 101 | 134 | 0 | 0 | 20 | 19 |
| Alaska | 68 | 58 | 18.3% | 63 | 55 | 0 | 0 | 0 | NM | 5 | 3 |
| Hawaii | 507 | 540 | -6.1% | 390 | 389 | 101 | 134 | 0 | 0 | 15 | 16 |
| U.S. Total | 864 | 884 | -2.2% | 632 | 665 | 190 | 179 | 9 | 6 | 33 | 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.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. 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 1.5.B. Utility Scale Facility Net Generation from Petroleum Liquids

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 956 | 100 | 851.2% | 141 | 11 | 779 | 66 | NM | 20 | NM | 3 |
| Connecticut | 200 | 11 | NM | NM | 2 | 194 | 8 | NM | 1 | 1 | 0 |
| Maine | 160 | 17 | 865.2% | 0 | 0 | 151 | 13 | 1 | 1 | NM | 3 |
| Massachusetts | 389 | 54 | 625.4% | 51 | NM | 324 | 43 | NM | 10 | 1 | 0 |
| New Hampshire | 152 | 11 | NM | 84 | 4 | 59 | NM | 8 | 6 | 0 | 0 |
| Rhode Island | NM | NM | NM | 0 | 3 | NM | NM | 1 | 2 | 0 | 0 |
| Vermont | NM | 1 | NM | NM | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 1,985 | 223 | 791.9% | 609 | 68 | 1,342 | 132 | NM | NM | NM | 19 |
| New Jersey | 217 | 20 | 989.9% | 1 | NM | 210 | 20 | 5 | 0 | 1 | 0 |
| New York | 1,372 | 134 | 924.9% | 606 | 68 | 743 | 45 | NM | NM | NM | 18 |
| Pennsylvania | 397 | 69 | 476.3% | 2 | 0 | 389 | 67 | 2 | 1 | NM | NM |
| East North Central | 230 | 150 | 54.0% | 123 | 92 | 95 | 51 | NM | 1 | 9 | 5 |
| Illinois | 23 | 20 | 15.1% | NM | 3 | 17 | 17 | NM | NM | 0 | 0 |
| Indiana | 41 | 35 | 16.6% | 34 | 32 | 0 | 0 | 0 | 0 | 7 | 3 |
| Michigan | 45 | 26 | 75.3% | 43 | 24 | 0 | 0 | 1 | 1 | 1 | 1 |
| Ohio | 111 | 59 | 87.6% | 33 | 24 | 77 | 35 | 0 | 0 | 1 | 1 |
| Wisconsin | 10 | 10 | 7.4% | NM | 9 | 1 | 0 | NM | 0 | NM | NM |
| West North Central | 179 | 160 | 12.0% | 167 | 158 | NM | NM | 1 | 0 | 0 | 0 |
| Iowa | 90 | 88 | 1.5% | 90 | 88 | NM | 0 | 0 | 0 | 0 | 0 |
| Kansas | NM | 18 | NM | NM | 18 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | NM | 11 | NM | NM | 10 | NM | NM | 1 | 0 | 0 | 0 |
| Missouri | 34 | 21 | 64.7% | 34 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 10 | 17 | -41.9% | 10 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | NM | 2 | NM | NM | 2 | 0 | 0 | NM | NM | 0 | 0 |
| South Atlantic | 1,777 | 550 | 223.0% | 1,126 | 432 | 598 | 92 | 16 | 7 | 37 | 19 |
| Delaware | 133 | NM | NM | 6 | 0 | 127 | NM | 0 | 0 | 0 | 0 |
| District of Columbia | NM | 0 | – | 0 | 0 | 0 | 0 | NM | 0 | 0 | 0 |
| Florida | 232 | 210 | 10.9% | NM | 204 | NM | 1 | 0 | 0 | NM | NM |
| Georgia | NM | 31 | NM | NM | 17 | NM | NM | 3 | 1 | NM | 6 |
| Maryland | 216 | 28 | 669.7% | 2 | 1 | 211 | 27 | 1 | 0 | 2 | 1 |
| North Carolina | 327 | 80 | 306.0% | 303 | 72 | NM | 6 | 0 | 0 | NM | 3 |
| South Carolina | 191 | 33 | 485.4% | NM | 28 | 38 | 0 | 0 | 0 | 5 | 4 |
| Virginia | 501 | 115 | 336.2% | NM | 67 | 119 | 40 | 12 | 6 | NM | 1 |
| West Virginia | 63 | 43 | 48.6% | 55 | 42 | 9 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 117 | 78 | 51.0% | 83 | 72 | 25 | 2 | 0 | 0 | NM | NM |
| Alabama | 44 | 15 | 205.0% | NM | 9 | 24 | 2 | 0 | 0 | NM | NM |
| Kentucky | 30 | 35 | -13.9% | 30 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | NM | 3 | NM | NM | 2 | 0 | 0 | 0 | 0 | 3 | 0 |
| Tennessee | 35 | 26 | 35.2% | 35 | 25 | 0 | 0 | 0 | 0 | 0 | 1 |
| West South Central | NM | 46 | NM | NM | 21 | NM | 24 | 0 | 0 | 3 | 1 |
| Arkansas | NM | 15 | NM | NM | 4 | 3 | 11 | 0 | 0 | 2 | 1 |
| Louisiana | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 6 | 5 | 20.4% | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | NM | 25 | NM | NM | 10 | NM | 14 | 0 | 0 | 1 | 0 |
| Mountain | 58 | 77 | -24.2% | 54 | 70 | 4 | 7 | 0 | 0 | 0 | 0 |
| Arizona | 20 | 20 | 1.2% | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 4 | 2 | 74.1% | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -60.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 3 | 6 | -52.5% | NM | NM | 3 | 6 | 0 | 0 | 0 | 0 |
| Nevada | 1 | 1 | -35.2% | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| New Mexico | NM | 18 | NM | NM | 18 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 14 | 16 | -11.6% | 13 | 15 | 1 | 1 | 0 | 0 | 0 | 0 |
| Wyoming | 11 | 15 | -25.5% | 11 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 22 | 29 | -26.2% | 11 | 15 | 2 | 5 | 0 | 0 | 9 | 9 |
| California | 18 | 18 | -0.6% | 11 | 11 | 1 | 1 | 0 | 0 | 7 | 6 |
| Oregon | 0 | 3 | -100.0% | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 4 | 8 | -56.3% | NM | 2 | NM | 4 | 0 | 0 | NM | 3 |
| Pacific Noncontiguous | 2,308 | 2,511 | -8.1% | 1,854 | 2,003 | 369 | 420 | 4 | 4 | 81 | 84 |
| Alaska | 289 | 342 | -15.6% | 269 | 322 | 0 | 0 | 3 | 3 | 17 | 18 |
| Hawaii | 2,019 | 2,168 | -6.9% | 1,585 | 1,681 | 369 | 420 | 1 | 1 | 64 | 66 |
| U.S. Total | 7,696 | 3,924 | 96.1% | 4,217 | 2,941 | 3,235 | 801 | 63 | 37 | 181 | 145 |

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 preliminary. 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 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| 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 | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| New Jersey | 0 | 7 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| East North Central | 73 | 137 | -46.7% | 65 | 68 | 0 | 62 | 0 | 0 | 8 | 7 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 72 | 75 | -3.2% | 66 | 68 | 0 | 0 | 0 | 0 | 7 | 7 |
| Ohio | 1 | 62 | -98.5% | 0 | 0 | 0 | 62 | 0 | 0 | 1 | 0 |
| Wisconsin | 0 | 0 | -229.7% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 8 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| Iowa | 8 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 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 | 94 | 23 | 318.1% | 74 | 23 | 0 | 0 | 0 | 0 | NM | 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 | 74 | 23 | 226.8% | 74 | 23 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | NM | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | NM | 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 | 48 | -100.0% | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 48 | -100.0% | 0 | 48 | 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 | 362 | 154 | 135.2% | 338 | 121 | 0 | 0 | 0 | 0 | 23 | 33 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 352 | 146 | 142.0% | 338 | 121 | 0 | 0 | 0 | 0 | 14 | 25 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 9 | 8 | 13.6% | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 8 |
| Mountain | 39 | 34 | 16.8% | 0 | 0 | 39 | 34 | 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 | 39 | 34 | 16.8% | 0 | 0 | 39 | 34 | 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 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 582 | 404 | 44.0% | 477 | 260 | 39 | 95 | 0 | 0 | 65 | 48 |

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 preliminary. 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 1.6.B. Utility Scale Facility Net Generation from Petroleum Coke

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| 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 | 39 | 52 | -24.6% | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 52 |
| New Jersey | 14 | 28 | -50.8% | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 28 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| East North Central | 517 | 554 | -6.8% | 387 | 264 | 112 | 256 | 0 | 0 | 18 | 34 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 376 | 288 | 30.6% | 359 | 253 | 0 | 0 | 0 | 0 | 16 | 34 |
| Ohio | 113 | 256 | -55.8% | 0 | 0 | 112 | 256 | 0 | 0 | 1 | 0 |
| Wisconsin | 28 | 11 | 154.2% | 28 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 32 | 18 | 81.3% | 0 | 0 | 0 | 0 | 4 | 3 | 28 | 15 |
| Iowa | 32 | 18 | 81.3% | 0 | 0 | 0 | 0 | 4 | 3 | 28 | 15 |
| 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 | 542 | 255 | 112.6% | 473 | 220 | 0 | 0 | 0 | 0 | 69 | NM |
| 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 | 473 | 220 | 114.5% | 473 | 220 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 69 | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | 69 | NM |
| 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 | 250 | -100.0% | 0 | 250 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 250 | -100.0% | 0 | 250 | 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 | 1,521 | 1,447 | 5.1% | 1,453 | 1,343 | 0 | 0 | 0 | 0 | 69 | 104 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 1,501 | 1,415 | 6.1% | 1,453 | 1,343 | 0 | 0 | 0 | 0 | 48 | 72 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 21 | 33 | -37.3% | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 33 |
| Mountain | 156 | 140 | 12.0% | 0 | 0 | 156 | 140 | 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 | 156 | 140 | 12.0% | 0 | 0 | 156 | 140 | 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 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 2,808 | 2,716 | 3.4% | 2,313 | 2,078 | 268 | 395 | 4 | 3 | 223 | 240 |

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 preliminary. 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 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 3,198 | 3,833 | -16.6% | 25 | NM | 2,997 | 3,676 | 80 | 61 | 95 | 89 |
| Connecticut | 1,349 | 1,034 | 30.4% | 3 | 3 | 1,272 | 968 | 33 | 26 | 41 | 37 |
| Maine | 162 | 148 | 9.5% | 0 | 0 | 131 | NM | 3 | 2 | 28 | 28 |
| Massachusetts | 1,149 | 1,814 | -36.7% | 22 | NM | 1,064 | 1,760 | 40 | 29 | 23 | 21 |
| New Hampshire | 89 | 506 | -82.4% | 0 | 0 | 86 | 504 | 1 | 0 | 3 | 3 |
| Rhode Island | 449 | 331 | 35.8% | 0 | 0 | 445 | 327 | 4 | 3 | 0 | 0 |
| Vermont | 0 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 11,885 | 9,353 | 27.1% | 650 | 641 | 10,945 | 8,510 | 86 | 73 | 204 | 129 |
| New Jersey | 3,031 | 2,699 | 12.3% | NM | NM | 2,968 | 2,643 | 12 | 15 | 34 | 25 |
| New York | 3,575 | 3,188 | 12.1% | 633 | 625 | 2,830 | 2,496 | 63 | 47 | 50 | 21 |
| Pennsylvania | 5,279 | 3,466 | 52.3% | 0 | 0 | 5,147 | 3,371 | 11 | 11 | 120 | 83 |
| East North Central | 9,734 | 5,966 | 63.2% | 3,159 | 2,527 | 6,204 | 3,110 | 106 | 98 | 265 | 231 |
| Illinois | 1,165 | 785 | 48.5% | 126 | NM | 958 | 659 | 27 | 21 | 54 | 51 |
| Indiana | 1,830 | 1,199 | 52.6% | 797 | 951 | 896 | 132 | 13 | 14 | 124 | 103 |
| Michigan | 2,694 | 1,693 | 59.2% | 894 | 523 | 1,713 | 1,097 | 45 | 39 | 42 | 34 |
| Ohio | 3,225 | 1,588 | 103.1% | 689 | 427 | 2,502 | 1,126 | 17 | 18 | 18 | 17 |
| Wisconsin | 819 | 701 | 16.9% | 652 | 574 | 136 | 96 | 4 | 5 | 27 | 26 |
| West North Central | 2,346 | 1,073 | 118.6% | 1,987 | 860 | 276 | 148 | 28 | 23 | 55 | 43 |
| Iowa | 644 | 216 | 197.9% | 599 | 178 | NM | 0 | 8 | 8 | 37 | 30 |
| Kansas | 297 | 175 | 69.6% | 294 | 174 | 0 | 0 | 0 | 0 | NM | NM |
| Minnesota | 799 | 315 | 153.3% | 675 | 255 | 106 | 46 | 8 | 6 | 10 | NM |
| Missouri | 400 | 270 | 48.3% | 214 | 156 | 171 | NM | 12 | 9 | 4 | 4 |
| Nebraska | NM | 22 | NM | NM | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 70 | 50 | 39.4% | 69 | 50 | 0 | 0 | 0 | 0 | 1 | 0 |
| South Dakota | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 24,879 | 23,636 | 5.3% | 19,653 | 19,171 | 4,850 | 4,058 | 43 | 39 | 332 | 368 |
| Delaware | 524 | 456 | 14.9% | 0 | 0 | 476 | 393 | 0 | 0 | 47 | 63 |
| District of Columbia | NM | 0 | NM | 0 | 0 | 0 | 0 | NM | 0 | 0 | 0 |
| Florida | 13,157 | 12,590 | 4.5% | 12,420 | 11,639 | 608 | 822 | 2 | 2 | 126 | 126 |
| Georgia | 3,372 | 3,384 | -0.4% | 2,215 | 2,547 | 1,105 | 776 | 0 | 0 | 52 | 60 |
| Maryland | 1,103 | 550 | 100.6% | 400 | 0 | 660 | 507 | 35 | 36 | 8 | 7 |
| North Carolina | 2,658 | 2,502 | 6.2% | 2,441 | 2,134 | 205 | 359 | 0 | 1 | NM | NM |
| South Carolina | 1,055 | 1,363 | -22.6% | 883 | 1,174 | 159 | 175 | 0 | 0 | 13 | 13 |
| Virginia | 2,870 | 2,730 | 5.1% | 1,256 | 1,672 | 1,549 | 997 | 1 | 0 | 63 | 60 |
| West Virginia | 136 | 61 | 122.2% | 38 | 4 | 88 | NM | 0 | 0 | 11 | 29 |
| East South Central | 10,317 | 9,054 | 14.0% | 6,898 | 6,117 | 3,216 | 2,735 | 17 | 12 | 187 | 190 |
| Alabama | 4,592 | 4,054 | 13.3% | 1,719 | 1,460 | 2,784 | 2,495 | 0 | 0 | 90 | 99 |
| Kentucky | 935 | 755 | 24.0% | 830 | 730 | 91 | 7 | 0 | 0 | 14 | 17 |
| Mississippi | 4,032 | 3,345 | 20.5% | 3,659 | 3,078 | 339 | 231 | 1 | 0 | 33 | 36 |
| Tennessee | 758 | 900 | -15.8% | 691 | 849 | 2 | 2 | 16 | 12 | 50 | 37 |
| West South Central | 24,639 | 22,628 | 8.9% | 7,356 | 6,293 | 12,096 | 11,089 | 51 | 45 | 5,137 | 5,201 |
| Arkansas | 1,862 | 1,541 | 20.8% | 908 | 446 | 930 | 1,072 | 0 | 0 | 23 | 23 |
| Louisiana | 4,476 | 4,540 | -1.4% | 2,293 | 2,009 | 221 | 498 | 12 | NM | 1,949 | 2,028 |
| Oklahoma | 2,882 | 2,228 | 29.3% | 1,609 | 1,433 | 1,240 | 776 | 0 | 0 | 32 | 19 |
| Texas | 15,420 | 14,319 | 7.7% | 2,545 | 2,404 | 9,704 | 8,743 | 39 | 40 | 3,132 | 3,131 |
| Mountain | 6,665 | 5,540 | 20.3% | 5,323 | 4,303 | 1,189 | 1,082 | 34 | 35 | 119 | 119 |
| Arizona | 2,242 | 1,888 | 18.8% | 1,760 | 1,423 | 471 | 454 | 11 | 11 | 0 | 0 |
| Colorado | 1,044 | 950 | 9.8% | 931 | 825 | 111 | 124 | 0 | 0 | 2 | 2 |
| Idaho | 124 | 152 | -18.2% | NM | 77 | 84 | 62 | 3 | 3 | NM | 10 |
| Montana | NM | 27 | NM | NM | 23 | NM | 4 | 0 | 0 | 0 | 0 |
| Nevada | 1,783 | 1,598 | 11.6% | 1,597 | 1,403 | 161 | 172 | 5 | 5 | 21 | 18 |
| New Mexico | 894 | 543 | 64.5% | 532 | 285 | 353 | 250 | 8 | 9 | 0 | 0 |
| Utah | 475 | 320 | 48.5% | 431 | 261 | 6 | 16 | 6 | 7 | 32 | 36 |
| Wyoming | 74 | 61 | 21.7% | NM | 6 | 0 | 0 | 0 | 0 | 57 | 54 |
| Pacific Contiguous | 6,160 | 4,960 | 24.2% | 2,214 | 1,906 | 2,986 | 2,113 | 146 | 145 | 813 | 796 |
| California | 4,867 | 4,225 | 15.2% | 1,651 | 1,472 | 2,280 | 1,830 | 140 | 140 | 797 | 784 |
| Oregon | 740 | 285 | 159.8% | 328 | 145 | 401 | 129 | 4 | 4 | 7 | NM |
| Washington | 553 | 450 | 22.9% | 235 | 288 | 305 | 154 | 2 | 2 | 10 | NM |
| Pacific Noncontiguous | 182 | 135 | 34.4% | 177 | 129 | 0 | 0 | 0 | 1 | 4 | 6 |
| Alaska | 182 | 135 | 34.4% | 177 | 129 | 0 | 0 | 0 | 1 | 4 | 6 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 100,004 | 86,178 | 16.0% | 47,442 | 41,953 | 44,759 | 36,522 | 591 | 532 | 7,211 | 7,171 |

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 preliminary. 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 1.7.B. Utility Scale Facility Net Generation from Natural Gas

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 13,936 | 14,500 | -3.9% | 56 | NM | 13,204 | 13,793 | 296 | 287 | 380 | 385 |
| Connecticut | 5,486 | 4,916 | 11.6% | 13 | 15 | 5,186 | 4,620 | 122 | 119 | 164 | 162 |
| Maine | 592 | 626 | -5.4% | 0 | 0 | 468 | 491 | 9 | 9 | 114 | 126 |
| Massachusetts | 6,061 | 6,781 | -10.6% | NM | NM | 5,779 | 6,534 | 148 | 142 | 91 | 87 |
| New Hampshire | 281 | 987 | -71.5% | 0 | 0 | 267 | 972 | 3 | 5 | 10 | 10 |
| Rhode Island | 1,517 | 1,189 | 27.6% | 0 | 0 | 1,503 | 1,177 | 13 | 12 | 0 | 0 |
| Vermont | 1 | 1 | -3.7% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 46,180 | 42,435 | 8.8% | 2,782 | 2,968 | 42,298 | 38,515 | 346 | 341 | 754 | 611 |
| New Jersey | 11,190 | 11,134 | 0.5% | NM | NM | 10,946 | 10,890 | 59 | 66 | 137 | 121 |
| New York | 13,417 | 14,387 | -6.7% | 2,730 | 2,911 | 10,269 | 11,159 | 233 | 227 | 184 | 91 |
| Pennsylvania | 21,573 | 16,915 | 27.5% | 4 | 1 | 21,084 | 16,466 | 54 | 48 | 432 | 399 |
| East North Central | 39,790 | 28,625 | 39.0% | 14,006 | 11,990 | 24,250 | 15,208 | 455 | 440 | 1,078 | 986 |
| Illinois | 4,009 | 4,079 | -1.7% | 266 | 291 | 3,406 | 3,468 | 114 | 99 | 222 | 221 |
| Indiana | 7,380 | 5,843 | 26.3% | 3,578 | 4,550 | 3,262 | 827 | 56 | 57 | 484 | 410 |
| Michigan | 10,403 | 7,514 | 38.4% | 3,032 | 2,296 | 6,980 | 4,874 | 202 | 178 | 188 | 166 |
| Ohio | 13,106 | 7,983 | 64.2% | 2,614 | 2,075 | 10,356 | 5,757 | 64 | 80 | 73 | 70 |
| Wisconsin | 4,891 | 3,205 | 52.6% | 4,515 | 2,778 | 246 | 282 | 18 | 25 | 112 | 120 |
| West North Central | 8,260 | 4,469 | 84.8% | 7,042 | 3,633 | 892 | 599 | 99 | 76 | 227 | 161 |
| Iowa | 1,951 | 627 | 211.3% | 1,794 | 522 | NM | 0 | 33 | 20 | 125 | 84 |
| Kansas | 862 | 546 | 57.9% | 831 | 535 | 0 | 0 | 0 | 0 | 31 | 11 |
| Minnesota | 2,878 | 1,668 | 72.5% | 2,465 | 1,354 | 329 | 235 | 34 | 34 | 51 | 46 |
| Missouri | 1,919 | 1,104 | 73.8% | 1,308 | 701 | 563 | 364 | 30 | 22 | 17 | 17 |
| Nebraska | 148 | 131 | 12.7% | 146 | 131 | 0 | 0 | 2 | 1 | 0 | 0 |
| North Dakota | 303 | 235 | 28.8% | 300 | 234 | 0 | 0 | 0 | 0 | 4 | 1 |
| South Dakota | 200 | 157 | 26.8% | 200 | 157 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 103,178 | 95,605 | 7.9% | 84,645 | 79,284 | 16,984 | 14,668 | 193 | 178 | 1,356 | 1,475 |
| Delaware | 1,781 | 1,916 | -7.0% | 0 | 0 | 1,572 | 1,610 | 0 | 0 | 210 | 306 |
| District of Columbia | 12 | 10 | 20.5% | 0 | 0 | 0 | 0 | 12 | 10 | 0 | 0 |
| Florida | 48,877 | 45,401 | 7.7% | 46,328 | 42,507 | 2,056 | 2,402 | 7 | 9 | 486 | 482 |
| Georgia | 15,878 | 15,811 | 0.4% | 12,148 | 12,135 | 3,526 | 3,473 | 0 | 0 | 204 | 203 |
| Maryland | 3,370 | 1,766 | 90.8% | 967 | 0 | 2,207 | 1,583 | 165 | 153 | 32 | 30 |
| North Carolina | 12,922 | 12,364 | 4.5% | 11,390 | 10,781 | 1,479 | 1,544 | 3 | 3 | 51 | 36 |
| South Carolina | 4,766 | 4,628 | 3.0% | 3,947 | 3,990 | 772 | 591 | 0 | 0 | 47 | 46 |
| Virginia | 15,243 | 13,437 | 13.4% | 9,788 | 9,833 | 5,223 | 3,384 | 6 | 2 | 226 | 219 |
| West Virginia | 328 | 272 | 20.7% | 77 | 38 | 151 | 81 | 0 | 0 | 100 | 152 |
| East South Central | 41,436 | 34,718 | 19.3% | 28,121 | 23,187 | 12,487 | 10,718 | 69 | 61 | 759 | 752 |
| Alabama | 16,824 | 15,016 | 12.0% | 5,828 | 5,327 | 10,632 | 9,313 | 0 | 0 | 364 | 376 |
| Kentucky | 4,766 | 2,424 | 96.6% | 4,410 | 2,255 | 281 | 85 | 0 | 0 | 75 | 83 |
| Mississippi | 16,393 | 13,758 | 19.2% | 14,677 | 12,298 | 1,568 | 1,316 | 6 | 3 | 143 | 141 |
| Tennessee | 3,453 | 3,520 | -1.9% | 3,206 | 3,307 | 6 | 3 | 64 | 58 | 177 | 152 |
| West South Central | 99,916 | 83,683 | 19.4% | 27,125 | 22,126 | 51,695 | 40,209 | 203 | 239 | 20,893 | 21,111 |
| Arkansas | 6,388 | 4,642 | 37.6% | 2,029 | 1,516 | 4,249 | 3,024 | 0 | 0 | 110 | 102 |
| Louisiana | 18,252 | 17,512 | 4.2% | 9,242 | 7,994 | 1,100 | 1,432 | 49 | 50 | 7,860 | 8,036 |
| Oklahoma | 9,896 | 7,736 | 27.9% | 5,458 | 5,076 | 4,327 | 2,583 | 0 | 0 | 111 | 77 |
| Texas | 65,379 | 53,794 | 21.5% | 10,395 | 7,540 | 42,019 | 33,170 | 154 | 188 | 12,811 | 12,896 |
| Mountain | 24,797 | 21,040 | 17.9% | 19,957 | 16,735 | 4,172 | 3,665 | 143 | 137 | 524 | 502 |
| Arizona | 6,701 | 4,668 | 43.5% | 5,530 | 3,582 | 1,125 | 1,044 | 46 | 43 | 0 | 0 |
| Colorado | 4,804 | 3,490 | 37.7% | 4,133 | 2,947 | 666 | 537 | 0 | 0 | 6 | 6 |
| Idaho | 580 | 742 | -21.9% | 174 | 396 | 349 | 284 | 14 | 14 | 44 | 49 |
| Montana | 117 | 122 | -3.9% | 99 | 97 | 17 | 23 | 0 | 0 | 1 | 2 |
| Nevada | 7,475 | 7,398 | 1.0% | 6,713 | 6,676 | 642 | 633 | 20 | 20 | 100 | 69 |
| New Mexico | 2,895 | 2,602 | 11.3% | 1,530 | 1,481 | 1,325 | 1,086 | 36 | 35 | 3 | 1 |
| Utah | 1,950 | 1,771 | 10.1% | 1,736 | 1,532 | 48 | 59 | 27 | 26 | 138 | 154 |
| Wyoming | 276 | 247 | 11.7% | 43 | 25 | 1 | 0 | 0 | 0 | 231 | 221 |
| Pacific Contiguous | 31,450 | 27,624 | 13.8% | 12,575 | 10,632 | 14,835 | 12,996 | 623 | 622 | 3,416 | 3,374 |
| California | 24,613 | 22,460 | 9.6% | 9,349 | 8,082 | 11,324 | 10,470 | 598 | 601 | 3,342 | 3,307 |
| Oregon | 4,254 | 2,884 | 47.5% | 1,912 | 1,093 | 2,297 | 1,747 | 16 | 14 | 29 | 30 |
| Washington | 2,582 | 2,280 | 13.3% | 1,314 | 1,456 | 1,214 | 779 | 9 | 8 | 45 | 37 |
| Pacific Noncontiguous | 863 | 673 | 28.2% | 844 | 646 | 0 | 0 | 0 | 2 | 19 | 25 |
| Alaska | 863 | 673 | 28.2% | 844 | 646 | 0 | 0 | 0 | 2 | 19 | 25 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 409,806 | 353,373 | 16.0% | 197,154 | 171,236 | 180,817 | 150,372 | 2,429 | 2,384 | 29,406 | 29,381 |

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 preliminary. 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 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| 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 | 48 | 63 | -23.7% | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 63 |
| New Jersey | 18 | 19 | -1.8% | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 19 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | NM | 44 | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 44 |
| East North Central | 373 | 450 | -17.1% | 28 | 19 | 138 | 141 | 0 | 0 | 206 | 290 |
| Illinois | 16 | 18 | -7.8% | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 18 |
| Indiana | 176 | 256 | -31.0% | NM | NM | 0 | 0 | 0 | 0 | 176 | 254 |
| Michigan | 133 | 106 | 25.2% | 28 | 18 | 106 | 89 | 0 | 0 | 0 | 0 |
| Ohio | 47 | 70 | -32.8% | 0 | 0 | 33 | 52 | 0 | 0 | 14 | 18 |
| Wisconsin | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 4 | 0 | 861.9% | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 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 | 4 | 0 | 861.9% | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 16 | 45 | -65.0% | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 45 |
| Delaware | 15 | 42 | -65.7% | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 42 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 0 | 0 | -36.6% | 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 | 1 | 2 | -55.8% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| East South Central | NM | 4 | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 4 |
| Alabama | NM | 3 | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 3 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 1 | 1 | -24.3% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| West South Central | 342 | 405 | -15.4% | 0 | 0 | 132 | 117 | 0 | 0 | 211 | 288 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 121 | 194 | -37.7% | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 194 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 222 | 211 | 4.9% | 0 | 0 | 132 | 117 | 0 | 0 | 90 | 94 |
| Mountain | 37 | 35 | 4.0% | 0 | 0 | 2 | 1 | 0 | 0 | 35 | 34 |
| 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 | 2 | 1 | 5.6% | 0 | 0 | 2 | 1 | 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 | 1 | -59.9% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Wyoming | 35 | 33 | 4.9% | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 33 |
| Pacific Contiguous | 150 | 151 | -0.5% | 0 | 0 | 34 | 21 | 0 | 0 | 116 | 130 |
| California | 116 | 130 | -10.6% | 0 | 0 | 0 | 0 | 0 | 0 | 116 | 130 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 34 | 21 | 61.6% | 0 | 0 | 34 | 21 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 5 | 4 | 18.4% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 5 | 4 | 18.4% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 |
| U.S. Total | 976 | 1,157 | -15.6% | 28 | 19 | 306 | 281 | 0 | 0 | 642 | 857 |

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 preliminary. 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 1.8.B. Utility Scale Facility Net Generation from Other Gases

### by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| 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 | 245 | 281 | -12.7% | 0 | 0 | 0 | 0 | 0 | 0 | 245 | 281 |
| New Jersey | 75 | 75 | -0.1% | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 75 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | 170 | 205 | -17.3% | 0 | 0 | 0 | 0 | 0 | 0 | 170 | 205 |
| East North Central | 1,713 | 1,980 | -13.5% | 90 | 70 | 665 | 730 | 0 | 0 | 958 | 1,181 |
| Illinois | 52 | 65 | -20.7% | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 65 |
| Indiana | 870 | 1,056 | -17.7% | NM | NM | 0 | 0 | 0 | 0 | 866 | 1,051 |
| Michigan | 572 | 560 | 2.1% | 87 | 64 | 485 | 496 | 0 | 0 | 0 | 0 |
| Ohio | 219 | 299 | -26.5% | 0 | 0 | 180 | 234 | 0 | 0 | 39 | 65 |
| Wisconsin | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 16 | 13 | 28.9% | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 13 |
| 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 | 16 | 13 | 28.9% | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 13 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 72 | 177 | -59.5% | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 177 |
| Delaware | 64 | 166 | -61.7% | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 166 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 1 | 2 | -23.8% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| 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 | 7 | 9 | -26.5% | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 9 |
| East South Central | 5 | 13 | -63.6% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 13 |
| Alabama | NM | 8 | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 8 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 2 | 4 | -44.5% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 |
| West South Central | 1,469 | 1,572 | -6.6% | 0 | 0 | 453 | 451 | 0 | 0 | 1,016 | 1,121 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 643 | 737 | -12.7% | 0 | 0 | 0 | 0 | 0 | 0 | 643 | 737 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 825 | 835 | -1.1% | 0 | 0 | 453 | 451 | 0 | 0 | 372 | 384 |
| Mountain | 145 | 146 | -0.6% | 0 | 0 | 4 | 5 | 0 | 0 | 141 | 141 |
| 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 | 4 | 5 | -20.7% | 0 | 0 | 4 | 5 | 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 | 5 | -96.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Wyoming | 141 | 135 | 4.1% | 0 | 0 | 0 | 0 | 0 | 0 | 141 | 135 |
| Pacific Contiguous | 641 | 528 | 21.4% | 0 | 0 | 135 | 103 | 0 | 0 | 505 | 424 |
| California | 505 | 424 | 19.1% | 0 | 0 | 0 | 0 | 0 | 0 | 505 | 424 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 135 | 103 | 31.0% | 0 | 0 | 135 | 103 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 16 | 16 | 0.1% | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 16 | 16 | 0.1% | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 |
| U.S. Total | 4,322 | 4,725 | -8.5% | 90 | 70 | 1,258 | 1,290 | 0 | 0 | 2,974 | 3,366 |

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 preliminary. 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 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 2,519 | 1,023 | 146.2% | 0 | 0 | 2,519 | 1,023 | 0 | 0 | 0 | 0 |
| Connecticut | 1,504 | 888 | 69.3% | 0 | 0 | 1,504 | 888 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 114 | 135 | -15.2% | 0 | 0 | 114 | 135 | 0 | 0 | 0 | 0 |
| New Hampshire | 901 | 0 | NM | 0 | 0 | 901 | 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 | 10,826 | 11,694 | -7.4% | 0 | 0 | 10,826 | 11,694 | 0 | 0 | 0 | 0 |
| New Jersey | 2,450 | 2,562 | -4.4% | 0 | 0 | 2,450 | 2,562 | 0 | 0 | 0 | 0 |
| New York | 2,865 | 2,880 | -0.5% | 0 | 0 | 2,865 | 2,880 | 0 | 0 | 0 | 0 |
| Pennsylvania | 5,512 | 6,253 | -11.9% | 0 | 0 | 5,512 | 6,253 | 0 | 0 | 0 | 0 |
| East North Central | 11,833 | 12,128 | -2.4% | 1,139 | 1,903 | 10,694 | 10,225 | 0 | 0 | 0 | 0 |
| Illinois | 7,658 | 7,920 | -3.3% | 0 | 0 | 7,658 | 7,920 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 1,729 | 2,150 | -19.6% | 1,139 | 1,903 | 590 | 247 | 0 | 0 | 0 | 0 |
| Ohio | 1,579 | 1,454 | 8.6% | 0 | 0 | 1,579 | 1,454 | 0 | 0 | 0 | 0 |
| Wisconsin | 867 | 605 | 43.3% | 0 | 0 | 867 | 605 | 0 | 0 | 0 | 0 |
| West North Central | 3,146 | 3,655 | -13.9% | 2,711 | 3,217 | 435 | 438 | 0 | 0 | 0 | 0 |
| Iowa | 435 | 438 | -0.7% | 0 | 0 | 435 | 438 | 0 | 0 | 0 | 0 |
| Kansas | -8 | 874 | -100.9% | -8 | 874 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 1,259 | 888 | 41.8% | 1,259 | 888 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 885 | 882 | 0.4% | 885 | 882 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 575 | 573 | 0.4% | 575 | 573 | 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 | 15,700 | 15,190 | 3.4% | 14,412 | 13,896 | 1,287 | 1,294 | 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 | 2,316 | 2,091 | 10.8% | 2,316 | 2,091 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 2,903 | 2,548 | 13.9% | 2,903 | 2,548 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 1,287 | 1,294 | -0.5% | 0 | 0 | 1,287 | 1,294 | 0 | 0 | 0 | 0 |
| North Carolina | 3,030 | 2,593 | 16.8% | 3,030 | 2,593 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 4,133 | 4,016 | 2.9% | 4,133 | 4,016 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 2,031 | 2,647 | -23.3% | 2,031 | 2,647 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 5,662 | 5,529 | 2.4% | 5,662 | 5,529 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 2,874 | 3,653 | -21.3% | 2,874 | 3,653 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 189 | 361 | -47.5% | 189 | 361 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 2,599 | 1,515 | 71.5% | 2,599 | 1,515 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 5,069 | 3,438 | 47.4% | 2,278 | 1,587 | 2,791 | 1,851 | 0 | 0 | 0 | 0 |
| Arkansas | 722 | 518 | 39.6% | 722 | 518 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 1,556 | 1,070 | 45.4% | 1,556 | 1,070 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 2,791 | 1,851 | 50.8% | 0 | 0 | 2,791 | 1,851 | 0 | 0 | 0 | 0 |
| Mountain | 1,963 | 2,122 | -7.5% | 1,963 | 2,122 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 1,963 | 2,122 | -7.5% | 1,963 | 2,122 | 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 | 2,369 | 1,964 | 20.6% | 2,369 | 1,964 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 1,546 | 1,413 | 9.5% | 1,546 | 1,413 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 822 | 551 | 49.2% | 822 | 551 | 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 | 59,087 | 56,743 | 4.1% | 30,534 | 30,217 | 28,553 | 26,526 | 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 preliminary. 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 1.9.B. Utility Scale Facility Net Generation from Nuclear Energy

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 10,679 | 9,572 | 11.6% | 0 | 0 | 10,679 | 9,572 | 0 | 0 | 0 | 0 |
| Connecticut | 6,031 | 5,396 | 11.8% | 0 | 0 | 6,031 | 5,396 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 1,046 | 1,480 | -29.3% | 0 | 0 | 1,046 | 1,480 | 0 | 0 | 0 | 0 |
| New Hampshire | 3,601 | 2,696 | 33.6% | 0 | 0 | 3,601 | 2,696 | 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 | 52,326 | 51,637 | 1.3% | 0 | 0 | 52,326 | 51,637 | 0 | 0 | 0 | 0 |
| New Jersey | 11,486 | 11,578 | -0.8% | 0 | 0 | 11,486 | 11,578 | 0 | 0 | 0 | 0 |
| New York | 13,785 | 12,680 | 8.7% | 0 | 0 | 13,785 | 12,680 | 0 | 0 | 0 | 0 |
| Pennsylvania | 27,055 | 27,379 | -1.2% | 0 | 0 | 27,055 | 27,379 | 0 | 0 | 0 | 0 |
| East North Central | 51,227 | 49,956 | 2.5% | 7,663 | 8,738 | 43,564 | 41,217 | 0 | 0 | 0 | 0 |
| Illinois | 32,119 | 31,320 | 2.6% | 0 | 0 | 32,119 | 31,320 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 9,924 | 10,548 | -5.9% | 7,663 | 8,738 | 2,261 | 1,809 | 0 | 0 | 0 | 0 |
| Ohio | 5,708 | 5,096 | 12.0% | 0 | 0 | 5,708 | 5,096 | 0 | 0 | 0 | 0 |
| Wisconsin | 3,476 | 2,992 | 16.2% | 0 | 0 | 3,476 | 2,992 | 0 | 0 | 0 | 0 |
| West North Central | 15,119 | 15,739 | -3.9% | 13,369 | 13,975 | 1,750 | 1,765 | 0 | 0 | 0 | 0 |
| Iowa | 1,750 | 1,765 | -0.8% | 0 | 0 | 1,750 | 1,765 | 0 | 0 | 0 | 0 |
| Kansas | 2,603 | 3,522 | -26.1% | 2,603 | 3,522 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 5,062 | 4,661 | 8.6% | 5,062 | 4,661 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 3,537 | 3,488 | 1.4% | 3,537 | 3,488 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 2,167 | 2,304 | -5.9% | 2,167 | 2,304 | 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 | 66,660 | 64,808 | 2.9% | 62,094 | 60,115 | 4,566 | 4,694 | 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 | 9,833 | 8,766 | 12.2% | 9,833 | 8,766 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 11,185 | 10,140 | 10.3% | 11,185 | 10,140 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 4,566 | 4,694 | -2.7% | 0 | 0 | 4,566 | 4,694 | 0 | 0 | 0 | 0 |
| North Carolina | 13,285 | 12,834 | 3.5% | 13,285 | 12,834 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 18,246 | 17,760 | 2.7% | 18,246 | 17,760 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 9,545 | 10,615 | -10.1% | 9,545 | 10,615 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 27,233 | 26,030 | 4.6% | 27,233 | 26,030 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 12,163 | 13,476 | -9.7% | 12,163 | 13,476 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 2,377 | 2,068 | 14.9% | 2,377 | 2,068 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 12,693 | 10,486 | 21.0% | 12,693 | 10,486 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 23,254 | 20,926 | 11.1% | 9,684 | 8,540 | 13,570 | 12,386 | 0 | 0 | 0 | 0 |
| Arkansas | 4,562 | 3,941 | 15.8% | 4,562 | 3,941 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 5,121 | 4,599 | 11.4% | 5,121 | 4,599 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 13,570 | 12,386 | 9.6% | 0 | 0 | 13,570 | 12,386 | 0 | 0 | 0 | 0 |
| Mountain | 10,480 | 10,755 | -2.6% | 10,480 | 10,755 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 10,480 | 10,755 | -2.6% | 10,480 | 10,755 | 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 | 8,581 | 9,094 | -5.6% | 8,581 | 9,094 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 5,242 | 6,154 | -14.8% | 5,242 | 6,154 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 3,339 | 2,940 | 13.6% | 3,339 | 2,940 | 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 | 265,559 | 258,518 | 2.7% | 139,104 | 137,246 | 126,455 | 121,271 | 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 preliminary. 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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 656 | 619 | 6.0% | 91 | 86 | 528 | 497 | 0 | 0 | 36 | 35 |
| Connecticut | 29 | 28 | 4.1% | 4 | 4 | 25 | NM | 0 | 0 | 0 | 0 |
| Maine | 299 | 286 | 4.5% | 0 | 0 | 264 | 252 | 0 | 0 | 36 | 34 |
| Massachusetts | 81 | 76 | 5.6% | NM | NM | 61 | 58 | 0 | 0 | 1 | 1 |
| New Hampshire | 132 | 119 | 10.8% | 27 | 26 | 105 | 93 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | 21.7% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 114 | 108 | 5.5% | 41 | 39 | 73 | 70 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 2,760 | 2,622 | 5.2% | 2,100 | 1,997 | 651 | 618 | 1 | 1 | 7 | 7 |
| New Jersey | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| New York | 2,483 | 2,360 | 5.2% | 2,087 | 1,985 | 388 | 368 | 1 | 1 | 7 | 7 |
| Pennsylvania | 271 | 257 | 5.2% | 13 | 12 | 257 | 245 | 0 | 0 | 0 | 0 |
| East North Central | 531 | 518 | 2.5% | 467 | 455 | 48 | 47 | 0 | 0 | 17 | NM |
| Illinois | 12 | NM | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 |
| Indiana | 41 | 40 | 4.5% | 41 | 40 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 155 | 156 | -0.9% | 142 | 143 | NM | NM | 0 | 0 | NM | NM |
| Ohio | 50 | 48 | 4.6% | 32 | 31 | NM | NM | 0 | 0 | 0 | 0 |
| Wisconsin | 273 | 265 | 2.9% | 246 | 240 | NM | NM | 0 | 0 | NM | NM |
| West North Central | 1,113 | 1,186 | -6.2% | 1,081 | 1,149 | NM | NM | 0 | 0 | NM | NM |
| Iowa | 90 | 81 | 10.0% | 89 | 81 | 0 | 1 | 0 | 0 | 0 | 0 |
| Kansas | 1 | 2 | -34.8% | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| Minnesota | 115 | 114 | 1.1% | 85 | 79 | NM | NM | 0 | 0 | NM | NM |
| Missouri | 141 | 131 | 8.1% | 141 | 131 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 154 | 152 | 1.2% | 154 | 152 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 192 | 213 | -9.6% | 192 | 213 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 419 | 493 | -15.1% | 419 | 493 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,699 | 1,632 | 4.1% | 1,301 | 1,230 | 346 | 352 | 2 | 1 | 50 | 48 |
| 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 | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 306 | 295 | 4.0% | 304 | 292 | NM | NM | 0 | 0 | 1 | 1 |
| Maryland | 289 | 297 | -3.0% | 0 | 0 | 289 | 297 | 0 | 0 | 0 | 0 |
| North Carolina | 468 | 445 | 5.3% | 461 | 439 | NM | NM | 1 | 1 | NM | NM |
| South Carolina | 292 | 277 | 5.3% | 285 | 271 | NM | NM | 0 | 0 | 0 | 0 |
| Virginia | 167 | 149 | 12.3% | 160 | 142 | NM | NM | 0 | 0 | 0 | 0 |
| West Virginia | 157 | 151 | 4.4% | 72 | 69 | 38 | 36 | 0 | 0 | 48 | 46 |
| East South Central | 2,011 | 1,921 | 4.7% | 2,010 | 1,920 | NM | NM | 0 | 0 | 0 | 0 |
| Alabama | 924 | 860 | 7.4% | 924 | 860 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 349 | 358 | -2.5% | 348 | 357 | NM | NM | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 738 | 704 | 4.9% | 738 | 704 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 920 | 882 | 4.4% | 806 | 774 | 114 | 108 | NM | NM | 0 | 0 |
| Arkansas | 380 | 367 | 3.5% | 375 | 363 | NM | NM | 0 | 0 | 0 | 0 |
| Louisiana | 105 | 101 | 4.3% | 0 | 0 | 105 | 101 | 0 | 0 | 0 | 0 |
| Oklahoma | 269 | 257 | 4.8% | 269 | 257 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 166 | 157 | 5.8% | 162 | 154 | 3 | 2 | NM | NM | 0 | 0 |
| Mountain | 3,169 | 3,238 | -2.1% | 3,044 | 3,103 | 124 | 135 | 1 | 1 | 0 | 0 |
| Arizona | 638 | 621 | 2.8% | 638 | 621 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 195 | 220 | -11.2% | 172 | 193 | NM | NM | 1 | 1 | 0 | 0 |
| Idaho | 906 | 961 | -5.8% | 823 | 873 | 82 | 88 | 0 | 0 | 0 | 0 |
| Montana | 1,010 | 1,052 | -4.0% | 996 | 1,038 | NM | NM | 0 | 0 | 0 | 0 |
| Nevada | 223 | 165 | 35.0% | 218 | 161 | NM | NM | 0 | 0 | 0 | 0 |
| New Mexico | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 77 | 86 | -11.1% | 76 | 85 | 1 | 1 | 0 | 0 | 0 | 0 |
| Wyoming | 97 | 106 | -8.4% | 97 | 106 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 14,576 | 16,516 | -11.7% | 14,320 | 16,191 | 253 | 321 | NM | 3 | 0 | 0 |
| California | 3,194 | 4,420 | -27.7% | 3,012 | 4,171 | 179 | 246 | NM | 3 | 0 | 0 |
| Oregon | 3,511 | 3,548 | -1.0% | 3,484 | 3,519 | NM | NM | 0 | 0 | 0 | 0 |
| Washington | 7,871 | 8,547 | -7.9% | 7,824 | 8,501 | 46 | NM | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 180 | 186 | -3.2% | 154 | 162 | 6 | 2 | NM | NM | NM | NM |
| Alaska | 170 | 180 | -5.8% | 152 | 162 | 0 | 0 | NM | NM | 0 | 0 |
| Hawaii | 11 | NM | NM | 2 | 1 | 6 | 2 | 0 | 0 | NM | NM |
| U.S. Total | 27,615 | 29,320 | -5.8% | 25,374 | 27,067 | 2,095 | 2,103 | NM | NM | 121 | 124 |

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 preliminary. 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 1.10.B. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power**

**by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 2,409 | 2,386 | 1.0% | 328 | 323 | 1,945 | 1,930 | 1 | 2 | 134 | 131 |
| Connecticut | 101 | 99 | 2.0% | 15 | 10 | 86 | 89 | 0 | 0 | 0 | 0 |
| Maine | 1,131 | 1,120 | 1.0% | 0 | 0 | 1,000 | 993 | 0 | 0 | 131 | 128 |
| Massachusetts | 292 | 292 | 0.0% | 62 | 65 | 225 | 223 | 1 | 2 | 3 | 3 |
| New Hampshire | 465 | 456 | 1.9% | 103 | 102 | 362 | 354 | 0 | 0 | 0 | 0 |
| Rhode Island | 1 | 1 | 42.7% | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Vermont | 419 | 417 | 0.4% | 148 | 146 | 271 | 271 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 10,648 | 10,421 | 2.2% | 8,235 | 8,015 | 2,384 | 2,378 | 3 | 2 | 27 | 26 |
| New Jersey | 18 | NM | NM | 0 | 0 | 18 | NM | 0 | 0 | 0 | 0 |
| New York | 9,664 | 9,430 | 2.5% | 8,194 | 7,972 | 1,441 | 1,430 | 3 | 2 | 27 | 26 |
| Pennsylvania | 966 | 980 | -1.4% | 42 | 43 | 925 | 937 | 0 | 0 | 0 | 0 |
| East North Central | 2,166 | 2,120 | 2.2% | 1,908 | 1,860 | 191 | 188 | 0 | 1 | 68 | 72 |
| Illinois | 44 | 45 | -1.3% | 15 | 15 | 29 | 29 | 0 | 1 | 0 | 0 |
| Indiana | 158 | 156 | 1.0% | 158 | 156 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 642 | 624 | 2.8% | 588 | 571 | 44 | NM | 0 | 0 | 10 | NM |
| Ohio | 188 | 187 | 0.4% | 121 | 120 | 68 | 67 | 0 | 0 | 0 | 0 |
| Wisconsin | 1,135 | 1,108 | 2.5% | 1,026 | 998 | 51 | NM | 0 | 0 | 58 | 62 |
| West North Central | 4,482 | 4,439 | 1.0% | 4,342 | 4,285 | 99 | 99 | 0 | 0 | 42 | 55 |
| Iowa | 377 | 361 | 4.5% | 375 | 358 | 1 | 3 | 0 | 0 | 0 | 0 |
| Kansas | 7 | 9 | -27.5% | 0 | 0 | 7 | 9 | 0 | 0 | 0 | 0 |
| Minnesota | 489 | 485 | 0.9% | 357 | 342 | 91 | 87 | 0 | 0 | 42 | 55 |
| Missouri | 495 | 496 | -0.2% | 495 | 496 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 640 | 620 | 3.3% | 640 | 620 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 785 | 776 | 1.1% | 785 | 776 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 1,689 | 1,693 | -0.2% | 1,689 | 1,693 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 5,888 | 6,043 | -2.6% | 4,589 | 4,676 | 1,104 | 1,174 | 5 | 4 | 190 | 189 |
| 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 | 68 | 68 | -0.4% | 68 | 68 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 1,082 | 1,163 | -7.0% | 1,074 | 1,154 | 4 | NM | 0 | 0 | 4 | 6 |
| Maryland | 893 | 972 | -8.1% | 0 | 0 | 893 | 972 | 0 | 0 | 0 | 0 |
| North Carolina | 1,672 | 1,658 | 0.8% | 1,646 | 1,637 | 19 | 15 | 4 | 3 | NM | NM |
| South Carolina | 997 | 1,025 | -2.8% | 971 | 1,006 | 24 | 19 | 1 | 1 | 0 | 0 |
| Virginia | 579 | 563 | 2.9% | 553 | 537 | 27 | 27 | 0 | 0 | 0 | 0 |
| West Virginia | 597 | 593 | 0.7% | 278 | 274 | 137 | 138 | 0 | 0 | 183 | 181 |
| East South Central | 7,335 | 7,458 | -1.6% | 7,332 | 7,454 | NM | NM | 0 | 0 | 0 | 0 |
| Alabama | 3,311 | 3,325 | -0.4% | 3,311 | 3,325 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 1,358 | 1,437 | -5.5% | 1,354 | 1,433 | NM | NM | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 2,667 | 2,696 | -1.1% | 2,667 | 2,696 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 3,349 | 3,374 | -0.7% | 2,911 | 2,946 | 436 | 425 | NM | NM | 0 | 0 |
| Arkansas | 1,376 | 1,389 | -0.9% | 1,361 | 1,376 | 15 | 13 | 0 | 0 | 0 | 0 |
| Louisiana | 409 | 403 | 1.7% | 0 | 0 | 409 | 403 | 0 | 0 | 0 | 0 |
| Oklahoma | 989 | 993 | -0.4% | 989 | 993 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 574 | 590 | -2.6% | 561 | 577 | 11 | 10 | NM | NM | 0 | 0 |
| Mountain | 12,635 | 12,236 | 3.3% | 12,122 | 11,736 | 511 | 497 | 2 | 2 | 0 | 0 |
| Arizona | 2,496 | 2,464 | 1.3% | 2,496 | 2,464 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 787 | 792 | -0.6% | 693 | 698 | 92 | 91 | 2 | 2 | 0 | 0 |
| Idaho | 3,722 | 3,653 | 1.9% | 3,386 | 3,323 | 336 | 329 | 0 | 0 | 0 | 0 |
| Montana | 4,163 | 4,069 | 2.3% | 4,105 | 4,012 | 58 | 57 | 0 | 0 | 0 | 0 |
| Nevada | 659 | 458 | 43.8% | 639 | 445 | 20 | NM | 0 | 0 | 0 | 0 |
| New Mexico | 95 | 95 | 0.4% | 95 | 95 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 315 | 313 | 0.5% | 310 | 307 | 5 | 6 | 0 | 0 | 0 | 0 |
| Wyoming | 398 | 393 | 1.4% | 398 | 393 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 54,874 | 62,753 | -12.6% | 54,122 | 61,534 | 746 | 1,210 | NM | 10 | 0 | 0 |
| California | 7,788 | 16,359 | -52.4% | 7,343 | 15,438 | 438 | 911 | NM | 10 | 0 | 0 |
| Oregon | 14,960 | 14,726 | 1.6% | 14,846 | 14,614 | 114 | 112 | 0 | 0 | 0 | 0 |
| Washington | 32,126 | 31,668 | 1.4% | 31,933 | 31,481 | 193 | 186 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 731 | 706 | 3.6% | 630 | 615 | 15 | 5 | 74 | 72 | NM | NM |
| Alaska | 697 | 684 | 1.9% | 623 | 612 | 0 | 0 | 74 | 72 | 0 | 0 |
| Hawaii | 34 | 22 | 55.2% | 7 | 3 | 15 | 5 | 0 | 0 | NM | NM |
| U.S. Total | 104,518 | 111,935 | -6.6% | 96,518 | 103,445 | 7,434 | 7,911 | 94 | 94 | 472 | 486 |

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 preliminary. 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 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 952 | 958 | -0.6% | 46 | 50 | 805 | 800 | 15 | 14 | 86 | 95 |
| Connecticut | 57 | 74 | -22.6% | 0 | 0 | 57 | 74 | NM | 0 | NM | 0 |
| Maine | 413 | 443 | -6.6% | 0 | 0 | 323 | 340 | 4 | 8 | 86 | 95 |
| Massachusetts | 240 | 198 | 21.1% | 7 | 8 | 227 | 186 | 6 | 5 | 0 | 0 |
| New Hampshire | 129 | 145 | -10.9% | 0 | 4 | 125 | 141 | 4 | 0 | 0 | 0 |
| Rhode Island | 37 | 30 | 21.2% | 0 | 0 | 36 | 30 | 1 | 1 | 0 | 0 |
| Vermont | 76 | 68 | 11.2% | 38 | 38 | 37 | 30 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 1,343 | 1,344 | -0.1% | 9 | 8 | 1,204 | 1,209 | 60 | 58 | 70 | 69 |
| New Jersey | 203 | 168 | 20.9% | 9 | 8 | 162 | 133 | 31 | 27 | NM | NM |
| New York | 614 | 625 | -1.8% | 0 | 0 | 580 | 592 | 18 | 18 | 16 | 15 |
| Pennsylvania | 526 | 551 | -4.6% | 0 | 0 | 461 | 485 | 11 | 13 | 53 | 53 |
| East North Central | 2,914 | 3,004 | -3.0% | 354 | 373 | 2,405 | 2,477 | 19 | 18 | 136 | 136 |
| Illinois | 1,168 | 1,225 | -4.6% | 3 | 3 | 1,165 | 1,221 | NM | NM | 0 | 0 |
| Indiana | 552 | 544 | 1.5% | 38 | 33 | 506 | 502 | 2 | 2 | 7 | 7 |
| Michigan | 669 | 726 | -7.8% | 188 | 195 | 416 | 468 | 10 | 10 | 55 | 52 |
| Ohio | 222 | 219 | 1.3% | NM | NM | 192 | 190 | 1 | 1 | 26 | 25 |
| Wisconsin | 303 | 291 | 4.1% | 122 | 139 | 126 | 96 | 6 | 5 | 49 | 51 |
| West North Central | 7,231 | 7,282 | -0.7% | 2,225 | 2,398 | 4,946 | 4,820 | 13 | 15 | 47 | 48 |
| Iowa | 2,022 | 2,098 | -3.6% | 1,283 | 1,354 | 733 | 736 | 4 | 4 | 2 | 4 |
| Kansas | 1,889 | 1,926 | -1.9% | 194 | 203 | 1,694 | 1,721 | NM | NM | 0 | 0 |
| Minnesota | 1,311 | 1,266 | 3.5% | 256 | 292 | 1,006 | 925 | 4 | 4 | 45 | 44 |
| Missouri | 302 | 202 | 49.9% | NM | NM | 296 | 194 | 2 | 4 | 0 | 0 |
| Nebraska | 463 | 485 | -4.6% | 23 | 25 | 439 | 458 | 1 | 2 | 0 | 0 |
| North Dakota | 983 | 1,004 | -2.0% | 385 | 427 | 597 | 577 | 0 | 0 | 0 | 0 |
| South Dakota | 261 | 303 | -13.8% | 80 | 94 | 181 | 209 | 0 | 0 | 0 | 0 |
| South Atlantic | 3,168 | 2,675 | 18.4% | 450 | 286 | 1,806 | 1,483 | 42 | 37 | 870 | 868 |
| Delaware | 12 | 11 | 10.1% | NM | NM | 9 | 8 | 1 | NM | NM | NM |
| District of Columbia | 5 | 4 | 34.5% | 0 | 0 | 0 | 4 | 5 | 0 | 0 | 0 |
| Florida | 643 | 504 | 27.4% | 220 | 65 | 247 | 265 | 4 | 4 | 172 | 170 |
| Georgia | 593 | 572 | 3.7% | 30 | 27 | 222 | 212 | NM | NM | 340 | 333 |
| Maryland | 140 | 125 | 12.4% | NM | NM | 127 | 113 | 2 | NM | 11 | 9 |
| North Carolina | 952 | 721 | 32.0% | 38 | 32 | 793 | 592 | 13 | 12 | 108 | 85 |
| South Carolina | 258 | 215 | 20.1% | 37 | 36 | 84 | 33 | 0 | 0 | 136 | 146 |
| Virginia | 391 | 350 | 11.9% | 122 | 125 | 150 | 82 | 17 | 19 | 102 | 124 |
| West Virginia | 174 | 174 | 0.2% | 0 | 0 | 174 | 174 | 0 | 0 | 0 | 0 |
| East South Central | 579 | 551 | 5.2% | 16 | 11 | 118 | 62 | NM | NM | 444 | 477 |
| Alabama | 288 | 292 | -1.4% | 4 | NM | 55 | 38 | 0 | 0 | 229 | 252 |
| Kentucky | 42 | 37 | 11.2% | 12 | 9 | NM | 1 | 0 | 0 | 28 | 28 |
| Mississippi | 163 | 126 | 29.6% | 0 | 0 | 35 | NM | 0 | 0 | 128 | 124 |
| Tennessee | 87 | 96 | -9.1% | 0 | 0 | 28 | 23 | NM | NM | 58 | 72 |
| West South Central | 11,147 | 9,989 | 11.6% | 166 | 191 | 10,542 | 9,355 | 8 | 9 | 431 | 434 |
| Arkansas | 145 | 126 | 14.5% | NM | NM | 27 | 11 | 0 | 1 | 117 | 114 |
| Louisiana | 221 | 231 | -4.5% | NM | 0 | 7 | 7 | 0 | 0 | 214 | 224 |
| Oklahoma | 2,907 | 2,458 | 18.3% | 139 | 164 | 2,739 | 2,270 | 0 | 0 | 30 | 23 |
| Texas | 7,875 | 7,174 | 9.8% | 27 | 26 | 7,769 | 7,067 | 8 | 8 | 71 | 72 |
| Mountain | 4,444 | 4,136 | 7.4% | 371 | 365 | 4,024 | 3,726 | 13 | 13 | 36 | 32 |
| Arizona | 558 | 551 | 1.3% | 77 | 58 | 479 | 491 | NM | NM | 0 | 0 |
| Colorado | 1,124 | 1,053 | 6.7% | 33 | 32 | 1,088 | 1,019 | NM | NM | 0 | 0 |
| Idaho | 338 | 356 | -4.9% | 17 | NM | 288 | 324 | 0 | 1 | 33 | 29 |
| Montana | 202 | 218 | -7.2% | 20 | 22 | 181 | 194 | 0 | 0 | 2 | 2 |
| Nevada | 740 | 683 | 8.4% | 4 | 4 | 729 | 673 | 6 | NM | 0 | 0 |
| New Mexico | 778 | 519 | 49.9% | 24 | 23 | 753 | 495 | NM | NM | 0 | 0 |
| Utah | 305 | 313 | -2.6% | 20 | 23 | 284 | 288 | 1 | 1 | 0 | 0 |
| Wyoming | 399 | 444 | -10.2% | 177 | 201 | 221 | 242 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 7,028 | 6,848 | 2.6% | 750 | 788 | 5,978 | 5,781 | 81 | 82 | 219 | 197 |
| California | 5,247 | 5,029 | 4.3% | 170 | 183 | 4,940 | 4,715 | 77 | 78 | 59 | 53 |
| Oregon | 861 | 842 | 2.2% | 130 | 112 | 685 | 684 | 3 | 3 | 44 | 44 |
| Washington | 921 | 977 | -5.8% | 450 | 494 | 353 | 382 | NM | NM | 116 | 100 |
| Pacific Noncontiguous | 146 | 141 | 3.2% | 19 | 18 | 106 | 105 | 21 | 17 | 0 | NM |
| Alaska | 19 | 20 | -3.0% | 10 | 11 | 5 | 6 | 4 | 3 | 0 | NM |
| Hawaii | 127 | 121 | 4.3% | 9 | 8 | 100 | 99 | 17 | 14 | 0 | 0 |
| U.S. Total | 38,952 | 36,928 | 5.5% | 4,407 | 4,489 | 31,933 | 29,820 | 273 | 264 | 2,339 | 2,356 |

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 preliminary. 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 1.11.B. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric**

**by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 4,159 | 3,868 | 7.5% | 302 | 279 | 3,422 | 3,143 | 65 | 64 | 370 | 382 |
| Connecticut | 271 | 285 | -5.0% | 1 | 1 | 270 | 284 | NM | 0 | NM | 0 |
| Maine | 1,868 | 1,784 | 4.7% | 0 | 0 | 1,474 | 1,374 | 26 | 29 | 369 | 382 |
| Massachusetts | 843 | 702 | 20.2% | 28 | 26 | 794 | 656 | 20 | 20 | 1 | 0 |
| New Hampshire | 685 | 691 | -0.9% | 79 | 84 | 590 | 595 | 15 | 12 | 0 | 0 |
| Rhode Island | 144 | 126 | 14.3% | 0 | 0 | 141 | 123 | 3 | 3 | 0 | 0 |
| Vermont | 348 | 280 | 24.3% | 194 | 168 | 154 | 112 | 1 | 1 | 0 | 0 |
| Middle Atlantic | 5,324 | 4,907 | 8.5% | 27 | 23 | 4,786 | 4,378 | 226 | 215 | 284 | 290 |
| New Jersey | 685 | 601 | 14.0% | 27 | 23 | 548 | 478 | 107 | 97 | NM | NM |
| New York | 2,452 | 2,210 | 10.9% | 0 | 0 | 2,315 | 2,075 | 68 | 67 | 69 | 68 |
| Pennsylvania | 2,187 | 2,095 | 4.4% | 0 | 0 | 1,924 | 1,825 | 51 | 51 | 212 | 219 |
| East North Central | 12,794 | 11,151 | 14.7% | 1,480 | 1,347 | 10,668 | 9,191 | 72 | 74 | 574 | 539 |
| Illinois | 5,098 | 4,533 | 12.5% | 12 | 13 | 5,082 | 4,518 | NM | NM | 0 | 0 |
| Indiana | 2,460 | 1,949 | 26.2% | 140 | 126 | 2,285 | 1,788 | 7 | 7 | 28 | 28 |
| Michigan | 2,944 | 2,698 | 9.1% | 777 | 726 | 1,901 | 1,729 | 38 | 40 | 228 | 204 |
| Ohio | 986 | 915 | 7.7% | 9 | NM | 866 | 801 | 5 | 5 | 107 | 103 |
| Wisconsin | 1,306 | 1,056 | 23.7% | 542 | 475 | 533 | 356 | 19 | 20 | 211 | 205 |
| West North Central | 29,749 | 27,489 | 8.2% | 9,340 | 9,156 | 20,113 | 18,043 | 63 | 62 | 233 | 228 |
| Iowa | 8,455 | 8,006 | 5.6% | 5,366 | 5,195 | 3,062 | 2,782 | 18 | 15 | 8 | 15 |
| Kansas | 7,245 | 6,692 | 8.3% | 722 | 553 | 6,517 | 6,133 | NM | NM | 0 | 0 |
| Minnesota | 5,457 | 4,914 | 11.1% | 1,108 | 1,140 | 4,109 | 3,547 | 20 | 18 | 220 | 209 |
| Missouri | 1,213 | 691 | 75.6% | 14 | 13 | 1,181 | 659 | 17 | 18 | 1 | 1 |
| Nebraska | 2,063 | 2,025 | 1.9% | 93 | 92 | 1,966 | 1,927 | 4 | 7 | 0 | 0 |
| North Dakota | 4,161 | 3,917 | 6.2% | 1,676 | 1,766 | 2,481 | 2,148 | 0 | 0 | 4 | 3 |
| South Dakota | 1,155 | 1,245 | -7.2% | 359 | 397 | 796 | 848 | 0 | 0 | 0 | 0 |
| South Atlantic | 11,905 | 9,931 | 19.9% | 1,661 | 1,069 | 6,486 | 5,141 | 131 | 132 | 3,627 | 3,589 |
| Delaware | 41 | 38 | 8.3% | NM | NM | 31 | 29 | 3 | 2 | 5 | 5 |
| District of Columbia | 20 | 18 | 15.9% | 0 | 0 | 15 | 18 | 5 | 0 | 0 | 0 |
| Florida | 2,516 | 1,975 | 27.4% | 711 | 234 | 1,085 | 1,020 | 18 | 18 | 702 | 703 |
| Georgia | 2,332 | 2,176 | 7.2% | 93 | 85 | 850 | 732 | NM | NM | 1,387 | 1,358 |
| Maryland | 498 | 451 | 10.4% | NM | NM | 450 | 401 | 9 | 7 | 36 | 40 |
| North Carolina | 3,100 | 2,366 | 31.0% | 115 | 80 | 2,484 | 1,848 | 41 | 37 | 459 | 401 |
| South Carolina | 1,037 | 894 | 16.0% | 157 | 150 | 299 | 147 | 0 | 0 | 582 | 597 |
| Virginia | 1,652 | 1,420 | 16.3% | 579 | 515 | 563 | 354 | 55 | 66 | 456 | 485 |
| West Virginia | 708 | 593 | 19.5% | 0 | 0 | 708 | 593 | 0 | 0 | 0 | 0 |
| East South Central | 2,298 | 2,164 | 6.2% | 57 | 37 | 389 | 217 | NM | NM | 1,850 | 1,909 |
| Alabama | 1,201 | 1,157 | 3.8% | 12 | NM | 188 | 138 | 0 | 0 | 1,001 | 1,016 |
| Kentucky | 164 | 150 | 9.1% | 45 | 35 | 2 | 3 | 0 | 0 | 116 | 113 |
| Mississippi | 557 | 492 | 13.2% | 0 | 0 | 104 | 5 | 0 | 0 | 453 | 487 |
| Tennessee | 376 | 365 | 3.2% | 0 | 0 | 95 | 71 | NM | NM | 280 | 292 |
| West South Central | 41,478 | 37,243 | 11.4% | 625 | 697 | 39,086 | 34,783 | 32 | 27 | 1,735 | 1,736 |
| Arkansas | 566 | 499 | 13.3% | NM | NM | 97 | 46 | 2 | 2 | 466 | 450 |
| Louisiana | 891 | 909 | -2.0% | NM | 0 | 28 | 27 | 0 | 0 | 863 | 882 |
| Oklahoma | 10,918 | 9,308 | 17.3% | 523 | 598 | 10,284 | 8,605 | 0 | 0 | 112 | 105 |
| Texas | 29,102 | 26,527 | 9.7% | 101 | 99 | 28,678 | 26,105 | 30 | 25 | 294 | 298 |
| Mountain | 16,065 | 14,476 | 11.0% | 1,423 | 1,321 | 14,466 | 12,992 | 40 | 38 | 137 | 125 |
| Arizona | 1,749 | 1,676 | 4.3% | 229 | 163 | 1,514 | 1,507 | 6 | 6 | 0 | 0 |
| Colorado | 4,048 | 3,899 | 3.8% | 120 | 119 | 3,920 | 3,772 | 6 | 7 | 1 | 1 |
| Idaho | 1,345 | 1,202 | 11.9% | 52 | 4 | 1,163 | 1,079 | 3 | 4 | 128 | 116 |
| Montana | 855 | 834 | 2.5% | 86 | 88 | 762 | 739 | 0 | 0 | 7 | 7 |
| Nevada | 2,594 | 2,314 | 12.1% | 12 | 12 | 2,563 | 2,284 | 19 | 17 | 1 | 1 |
| New Mexico | 2,707 | 1,773 | 52.7% | 72 | 68 | 2,634 | 1,704 | NM | NM | 0 | 0 |
| Utah | 1,064 | 1,105 | -3.8% | 86 | 90 | 974 | 1,011 | 4 | 4 | 0 | 0 |
| Wyoming | 1,703 | 1,672 | 1.8% | 766 | 777 | 937 | 895 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 25,329 | 23,305 | 8.7% | 2,918 | 2,599 | 21,198 | 19,560 | 320 | 326 | 894 | 819 |
| California | 18,269 | 17,361 | 5.2% | 599 | 628 | 17,130 | 16,213 | 303 | 310 | 238 | 210 |
| Oregon | 3,229 | 2,513 | 28.5% | 426 | 295 | 2,608 | 2,034 | 11 | 10 | 184 | 174 |
| Washington | 3,831 | 3,431 | 11.7% | 1,893 | 1,676 | 1,461 | 1,314 | 6 | 6 | 472 | 436 |
| Pacific Noncontiguous | 549 | 532 | 3.2% | 72 | 71 | 400 | 390 | 77 | 72 | 0 | NM |
| Alaska | 80 | 72 | 10.5% | 42 | 39 | 23 | 22 | 16 | 11 | 0 | NM |
| Hawaii | 469 | 460 | 2.0% | 30 | 32 | 378 | 368 | 62 | 60 | 0 | 0 |
| U.S. Total | 149,652 | 135,066 | 10.8% | 17,905 | 16,598 | 121,014 | 107,839 | 1,027 | 1,012 | 9,704 | 9,617 |

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 preliminary. 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 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | -30 | -24 | 24.9% | 0 | 0 | -30 | -24 | 0 | 0 | 0 | 0 |
| Connecticut | 1 | 2 | -60.0% | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | -31 | -26 | 19.5% | 0 | 0 | -31 | -26 | 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 | -90 | -97 | -7.8% | -38 | -51 | -52 | -46 | 0 | 0 | 0 | 0 |
| New Jersey | -6 | -14 | -55.7% | -6 | -14 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York | -32 | -37 | -13.3% | -32 | -37 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | -52 | -46 | 11.1% | 0 | 0 | -52 | -46 | 0 | 0 | 0 | 0 |
| East North Central | -38 | -46 | -17.4% | -38 | -46 | 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 | -38 | -46 | -17.4% | -38 | -46 | 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 | 14 | 31 | -55.1% | 14 | 31 | 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 | 14 | 31 | -55.1% | 14 | 31 | 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 | -125 | -212 | -41.0% | -125 | -212 | 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 | -10 | -82 | -87.6% | -10 | -82 | 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 | -27 | -64 | -57.9% | -27 | -64 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | -88 | -66 | 33.4% | -88 | -66 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | -41 | -42 | -3.1% | -41 | -42 | 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 | -41 | -42 | -3.1% | -41 | -42 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 2 | -7 | -131.0% | 2 | -7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arkansas | 13 | 5 | 143.9% | 13 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | -11 | -12 | -12.6% | -11 | -12 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain | -23 | -33 | -30.0% | -23 | -33 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 1 | -8 | -117.1% | 1 | -8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | -24 | -25 | -3.3% | -24 | -25 | 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 | -46 | -8 | 475.3% | -46 | -8 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | -45 | -9 | 398.7% | -45 | -9 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | -1 | 1 | -155.9% | -1 | 1 | 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 | -377 | -439 | -14.1% | -295 | -368 | -82 | -71 | 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 preliminary. 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 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power**

**by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | -132 | -139 | -5.0% | 0 | 0 | -132 | -139 | 0 | 0 | 0 | 0 |
| Connecticut | -5 | -6 | -5.9% | 0 | 0 | -5 | -6 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | -127 | -134 | -4.9% | 0 | 0 | -127 | -134 | 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 | -361 | -357 | 1.4% | -169 | -179 | -193 | -178 | 0 | 0 | 0 | 0 |
| New Jersey | -37 | -51 | -26.9% | -37 | -51 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York | -131 | -128 | 2.5% | -131 | -128 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | -193 | -178 | 8.6% | 0 | 0 | -193 | -178 | 0 | 0 | 0 | 0 |
| East North Central | -189 | -174 | 8.7% | -189 | -174 | 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 | -189 | -174 | 8.7% | -189 | -174 | 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 | 36 | 18 | 96.9% | 36 | 18 | 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 | 36 | 18 | 96.9% | 36 | 18 | 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 | -617 | -961 | -35.8% | -617 | -961 | 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 | -155 | -426 | -63.6% | -155 | -426 | 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 | -110 | -263 | -58.2% | -110 | -263 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | -352 | -272 | 29.5% | -352 | -272 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | -169 | -173 | -2.3% | -169 | -173 | 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 | -169 | -173 | -2.3% | -169 | -173 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | -8 | -25 | -66.3% | -8 | -25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arkansas | 25 | 6 | 308.2% | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | -33 | -31 | 7.1% | -33 | -31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain | -148 | -141 | 4.3% | -148 | -141 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | -41 | -41 | -0.2% | -41 | -41 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | -106 | -100 | 6.1% | -106 | -100 | 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 | -141 | 49 | -386.3% | -141 | 49 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | -166 | 50 | -430.4% | -166 | 50 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 25 | -1 | NM | 25 | -1 | 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 | -1,729 | -1,903 | -9.1% | -1,404 | -1,586 | -325 | -317 | 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 preliminary. 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 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 127 | 149 | -14.8% | 0 | 0 | 113 | 131 | 4 | 7 | 10 | 11 |
| Connecticut | 27 | 47 | -41.5% | 0 | 0 | 27 | 47 | 0 | 0 | 0 | 0 |
| Maine | 29 | 32 | -9.6% | 0 | 0 | 15 | 14 | 4 | 7 | 10 | 11 |
| Massachusetts | 66 | 65 | 1.1% | 0 | 0 | 66 | 65 | 0 | 0 | 0 | 0 |
| New Hampshire | 4 | 4 | -2.1% | 0 | 0 | 4 | 4 | 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 | 172 | 171 | 0.5% | 0 | 0 | 138 | 129 | 34 | 36 | 0 | 6 |
| New Jersey | 46 | 44 | 3.7% | 0 | 0 | 33 | 27 | 13 | 11 | 0 | 6 |
| New York | 74 | 72 | 1.9% | 0 | 0 | 58 | 55 | 16 | 17 | 0 | 0 |
| Pennsylvania | 53 | 55 | -4.0% | 0 | 0 | 47 | 47 | 5 | 8 | 0 | 0 |
| East North Central | 56 | 77 | -27.3% | 1 | 1 | 9 | 5 | 11 | 11 | 35 | 60 |
| Illinois | 15 | 24 | -38.6% | 0 | 0 | -2 | -2 | 0 | 0 | 16 | 26 |
| Indiana | 15 | 30 | -49.1% | 0 | 0 | 0 | 0 | 2 | 1 | 14 | 29 |
| Michigan | 20 | 19 | 6.7% | 0 | 0 | 10 | 8 | 9 | 10 | 1 | 2 |
| Ohio | 1 | 0 | 438.4% | 0 | 0 | 0 | -1 | 0 | 0 | 1 | 1 |
| Wisconsin | 5 | 4 | 28.4% | 2 | 1 | 0 | 0 | 0 | 0 | NM | NM |
| West North Central | 32 | 39 | -17.3% | 18 | 17 | 7 | 14 | NM | NM | 5 | 5 |
| Iowa | 0 | 1 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Kansas | 0 | 0 | -5.9% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 29 | 35 | -17.6% | 15 | 14 | 7 | 14 | NM | NM | 5 | 4 |
| Missouri | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 3 | NM | NM | 3 | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 385 | 358 | 7.6% | 0 | 0 | 212 | 165 | 15 | 17 | 158 | 176 |
| 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 | 258 | 258 | 0.1% | 0 | 0 | 132 | 118 | 0 | 0 | 126 | 139 |
| Georgia | 5 | 8 | -35.3% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 |
| Maryland | 27 | 25 | 8.3% | 0 | 0 | 27 | 25 | 0 | 0 | 0 | 0 |
| North Carolina | 53 | 48 | 10.0% | 0 | 0 | 29 | 22 | 0 | 0 | 25 | 26 |
| South Carolina | 4 | 4 | -16.4% | 0 | 0 | 1 | 1 | 0 | 0 | 3 | 4 |
| Virginia | 40 | 17 | 136.9% | 0 | 0 | 25 | 0 | 15 | 17 | 0 | 0 |
| West Virginia | -1 | -1 | -11.4% | 0 | 0 | -1 | -1 | 0 | 0 | 0 | 0 |
| East South Central | 6 | 4 | 57.5% | 5 | 1 | 0 | 0 | 0 | 0 | NM | 2 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 5 | 1 | 269.8% | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | NM | 2 | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 2 |
| West South Central | 82 | 72 | 13.3% | 0 | 0 | 7 | 7 | 0 | 0 | 75 | 65 |
| Arkansas | NM | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 0 |
| Louisiana | 56 | 35 | 62.0% | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 35 |
| Oklahoma | 2 | 1 | 101.1% | 0 | 0 | 2 | 2 | 0 | 0 | 0 | -1 |
| Texas | 22 | 36 | -38.1% | 0 | 0 | 5 | 5 | 0 | 0 | 18 | 31 |
| Mountain | 60 | 58 | 3.4% | 2 | 2 | 25 | 31 | 0 | 0 | 33 | 25 |
| Arizona | 0 | 0 | 4.8% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 5 | 4 | 26.0% | 0 | 0 | 2 | 1 | 0 | 0 | 3 | 3 |
| Idaho | 7 | 6 | 21.8% | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 |
| Montana | 23 | 30 | -23.6% | 0 | 0 | 23 | 30 | 0 | 0 | 0 | 0 |
| Nevada | 2 | 2 | -0.1% | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -113.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 16 | 12 | 28.4% | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 12 |
| Wyoming | 8 | 5 | 68.6% | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 |
| Pacific Contiguous | 92 | 86 | 6.1% | 0 | 0 | 24 | 24 | 0 | 0 | 67 | 63 |
| California | 84 | 77 | 8.4% | 0 | 0 | 16 | 15 | 0 | 0 | 67 | 63 |
| Oregon | 3 | 3 | 8.8% | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 |
| Washington | 4 | 6 | -24.7% | 0 | 0 | 4 | 6 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 26 | 30 | -11.8% | 10 | 16 | 0 | 0 | 17 | 14 | 0 | 0 |
| Alaska | 0 | 0 | -20.1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 27 | 30 | -11.8% | 10 | 16 | 0 | 0 | 17 | 14 | 0 | 0 |
| U.S. Total | 1,038 | 1,044 | -0.6% | 37 | 38 | 534 | 506 | 82 | 87 | 384 | 413 |

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 preliminary. 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 1.13.B. Utility Scale Facility Net Generation from Other Energy Sources

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 566 | 581 | -2.7% | 0 | 0 | 494 | 506 | 24 | 26 | 48 | 49 |
| Connecticut | 148 | 171 | -13.5% | 0 | 0 | 148 | 171 | 0 | 0 | 0 | 0 |
| Maine | 129 | 132 | -2.1% | 0 | 0 | 57 | 57 | 24 | 26 | 48 | 49 |
| Massachusetts | 273 | 263 | 4.1% | 0 | 0 | 273 | 263 | 0 | 0 | 0 | 0 |
| New Hampshire | 15 | 16 | -1.5% | 0 | 0 | 15 | 16 | 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 | 721 | 732 | -1.6% | 0 | 0 | 575 | 571 | 140 | 138 | 6 | 23 |
| New Jersey | 185 | 195 | -5.0% | 0 | 0 | 129 | 124 | 51 | 49 | 6 | 23 |
| New York | 277 | 268 | 3.4% | 0 | 0 | 216 | 207 | 61 | 61 | 0 | 0 |
| Pennsylvania | 258 | 270 | -4.1% | 0 | 0 | 230 | 241 | 28 | 29 | 0 | 0 |
| East North Central | 275 | 268 | 2.8% | 5 | 4 | 39 | 23 | 43 | 45 | 188 | 196 |
| Illinois | 82 | 82 | -0.9% | 0 | 0 | -5 | -9 | 0 | 0 | 87 | 91 |
| Indiana | 83 | 91 | -9.0% | 0 | 0 | 0 | 0 | 7 | 6 | 76 | 84 |
| Michigan | 87 | 77 | 11.8% | 0 | 0 | 44 | 33 | 37 | 39 | 6 | 5 |
| Ohio | 4 | 0 | NM | -1 | -1 | 0 | -2 | 0 | 0 | 5 | 3 |
| Wisconsin | 20 | 17 | 19.4% | 6 | 6 | 0 | 0 | 0 | 0 | 14 | 11 |
| West North Central | 141 | 143 | -1.2% | 65 | 64 | 43 | 50 | 11 | 11 | 23 | 18 |
| Iowa | 0 | 1 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Kansas | 2 | 1 | 25.4% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| Minnesota | 125 | 125 | -0.5% | 51 | 48 | 43 | 50 | 11 | 11 | 21 | 16 |
| Missouri | 1 | 1 | -4.0% | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 14 | 15 | -4.7% | 14 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,527 | 1,411 | 8.3% | 0 | 0 | 837 | 719 | 48 | 59 | 642 | 632 |
| 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 | 1,029 | 1,022 | 0.7% | 0 | 0 | 525 | 522 | 0 | 0 | 504 | 500 |
| Georgia | 32 | 33 | -3.5% | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 33 |
| Maryland | 106 | 94 | 12.3% | 0 | 0 | 106 | 94 | 0 | 0 | 0 | 0 |
| North Carolina | 201 | 165 | 21.7% | 0 | 0 | 103 | 78 | 0 | 0 | 98 | 87 |
| South Carolina | 11 | 14 | -26.3% | 0 | 0 | 2 | 2 | 0 | 0 | 8 | 12 |
| Virginia | 153 | 87 | 76.4% | 0 | 0 | 105 | 27 | 48 | 59 | 0 | 0 |
| West Virginia | -4 | -5 | -4.3% | 0 | 0 | -4 | -5 | 0 | 0 | 0 | 0 |
| East South Central | 21 | 20 | 8.5% | 18 | 11 | 0 | 0 | 0 | 0 | 4 | 9 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 18 | 11 | 60.7% | 18 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 1 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Tennessee | 4 | 7 | -52.1% | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 7 |
| West South Central | 344 | 356 | -3.3% | 0 | 0 | 45 | 37 | 0 | 0 | 299 | 319 |
| Arkansas | 2 | 2 | 41.6% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Louisiana | 200 | 174 | 15.1% | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 174 |
| Oklahoma | 16 | 8 | 115.8% | 0 | 0 | 15 | 11 | 0 | 0 | 1 | -4 |
| Texas | 125 | 173 | -27.4% | 0 | 0 | 30 | 26 | 0 | 0 | 95 | 147 |
| Mountain | 246 | 236 | 4.1% | 9 | 11 | 109 | 118 | 0 | 0 | 127 | 107 |
| Arizona | 0 | 0 | -5.8% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 20 | 18 | 10.0% | 0 | 0 | 7 | 6 | 0 | 0 | 13 | 13 |
| Idaho | 25 | 21 | 18.6% | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 21 |
| Montana | 102 | 113 | -9.2% | 0 | 0 | 102 | 113 | 0 | 0 | 0 | 0 |
| Nevada | 10 | 11 | -11.7% | 10 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | -26.1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 60 | 52 | 15.8% | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 51 |
| Wyoming | 29 | 22 | 33.6% | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 22 |
| Pacific Contiguous | 305 | 311 | -1.7% | 0 | -2 | 94 | 90 | 0 | 0 | 212 | 223 |
| California | 273 | 280 | -2.5% | 0 | -2 | 61 | 58 | 0 | 0 | 212 | 223 |
| Oregon | 13 | 13 | 1.4% | 0 | 0 | 13 | 13 | 0 | 0 | 0 | 0 |
| Washington | 19 | 18 | 7.3% | 0 | 0 | 19 | 18 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 115 | 114 | 1.0% | 56 | 54 | 0 | 2 | 59 | 58 | 0 | 0 |
| Alaska | -1 | -1 | -27.6% | -1 | -1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 116 | 115 | 0.8% | 57 | 55 | 0 | 2 | 59 | 58 | 0 | 0 |
| U.S. Total | 4,262 | 4,171 | 2.2% | 153 | 142 | 2,235 | 2,116 | 325 | 338 | 1,548 | 1,576 |

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 preliminary. 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 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 329 | 327 | 0.6% | 22 | 24 | 304 | 301 | 3 | 2 | 0 | 0 |
| Connecticut | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Maine | 214 | 217 | -1.8% | 0 | 0 | 214 | 217 | 0 | 0 | 0 | 0 |
| Massachusetts | 22 | 23 | -1.0% | 5 | 6 | 14 | 15 | 3 | 2 | 0 | 0 |
| New Hampshire | 42 | 45 | -5.6% | 0 | 0 | 42 | 45 | 0 | 0 | 0 | 0 |
| Rhode Island | 15 | 12 | 31.1% | 0 | 0 | 14 | 11 | 1 | 1 | 0 | 0 |
| Vermont | 35 | 30 | 17.0% | 17 | 18 | 18 | 12 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 732 | 784 | -6.5% | 0 | 0 | 732 | 784 | NM | 0 | 0 | 0 |
| New Jersey | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| New York | 398 | 428 | -7.0% | 0 | 0 | 397 | 428 | NM | 0 | 0 | 0 |
| Pennsylvania | 333 | 354 | -5.9% | 0 | 0 | 333 | 354 | 0 | 0 | 0 | 0 |
| East North Central | 2,394 | 2,484 | -3.6% | 274 | 296 | 2,112 | 2,182 | NM | NM | 7 | 6 |
| Illinois | 1,125 | 1,181 | -4.7% | 1 | NM | 1,123 | 1,179 | NM | NM | 0 | 0 |
| Indiana | 479 | 479 | 0.0% | 0 | 0 | 479 | 478 | 0 | 0 | 0 | 0 |
| Michigan | 466 | 522 | -10.7% | 177 | 193 | 289 | 329 | 0 | 0 | 0 | 0 |
| Ohio | 150 | 149 | 0.5% | NM | NM | 142 | 142 | 0 | 0 | 6 | 5 |
| Wisconsin | 175 | 154 | 13.4% | 94 | 100 | 80 | 54 | 0 | 0 | 1 | 1 |
| West North Central | 6,899 | 7,036 | -1.9% | 2,180 | 2,353 | 4,716 | 4,678 | NM | NM | 0 | 0 |
| Iowa | 2,002 | 2,083 | -3.9% | 1,280 | 1,351 | 722 | 732 | 0 | 0 | 0 | 0 |
| Kansas | 1,884 | 1,921 | -1.9% | 193 | 203 | 1,689 | 1,716 | NM | NM | 0 | 0 |
| Minnesota | 1,032 | 1,063 | -2.9% | 225 | 258 | 805 | 802 | 3 | NM | 0 | 0 |
| Missouri | 285 | 186 | 53.0% | 0 | 0 | 285 | 186 | 0 | 0 | 0 | 0 |
| Nebraska | 453 | 476 | -4.9% | 16 | 19 | 437 | 457 | 0 | 0 | 0 | 0 |
| North Dakota | 983 | 1,003 | -2.1% | 385 | 427 | 597 | 577 | 0 | 0 | 0 | 0 |
| South Dakota | 261 | 303 | -13.8% | 80 | 94 | 181 | 209 | 0 | 0 | 0 | 0 |
| South Atlantic | 287 | 284 | 1.2% | 0 | 0 | 286 | 283 | 1 | 0 | 0 | 0 |
| Delaware | 1 | 0 | 73.1% | 0 | 0 | 0 | 0 | 1 | 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 | 48 | 53 | -9.1% | 0 | 0 | 48 | 53 | 0 | 0 | 0 | 0 |
| North Carolina | 64 | 57 | 13.3% | 0 | 0 | 64 | 57 | 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 | 174 | 174 | 0.2% | 0 | 0 | 174 | 174 | 0 | 0 | 0 | 0 |
| East South Central | 4 | 4 | 7.1% | 0 | 0 | 4 | 4 | 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 | 4 | 4 | 7.1% | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 |
| West South Central | 10,373 | 9,284 | 11.7% | 159 | 187 | 10,210 | 9,091 | 4 | 5 | 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 | 2,870 | 2,430 | 18.1% | 132 | 161 | 2,737 | 2,269 | 0 | 0 | 0 | 0 |
| Texas | 7,504 | 6,854 | 9.5% | 27 | 26 | 7,473 | 6,822 | 4 | 5 | 0 | 0 |
| Mountain | 2,676 | 2,464 | 8.6% | 245 | 256 | 2,429 | 2,207 | NM | NM | 0 | 0 |
| Arizona | 63 | 63 | 0.3% | 0 | 0 | 63 | 63 | 0 | 0 | 0 | 0 |
| Colorado | 1,011 | 953 | 6.1% | 32 | 32 | 978 | 920 | NM | NM | 0 | 0 |
| Idaho | 237 | 258 | -8.1% | 16 | 0 | 221 | 258 | 0 | 0 | 0 | 0 |
| Montana | 197 | 214 | -8.2% | 20 | 22 | 177 | 192 | 0 | 0 | 0 | 0 |
| Nevada | 38 | 38 | 0.3% | 0 | 0 | 38 | 38 | 0 | 0 | 0 | 0 |
| New Mexico | 657 | 413 | 59.3% | 0 | 0 | 657 | 412 | NM | NM | 0 | 0 |
| Utah | 74 | 81 | -9.0% | 0 | 0 | 74 | 81 | 0 | 0 | 0 | 0 |
| Wyoming | 399 | 444 | -10.2% | 177 | 201 | 221 | 242 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 2,979 | 3,003 | -0.8% | 593 | 617 | 2,386 | 2,385 | 1 | 1 | 0 | 0 |
| California | 1,505 | 1,458 | 3.2% | 54 | 57 | 1,450 | 1,401 | 1 | 1 | 0 | 0 |
| Oregon | 716 | 720 | -0.5% | 124 | 106 | 592 | 614 | 0 | 0 | 0 | 0 |
| Washington | 758 | 825 | -8.1% | 415 | 454 | 343 | 371 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 82 | 83 | -1.5% | 10 | 11 | 72 | 72 | 0 | 0 | 0 | 0 |
| Alaska | 15 | 17 | -9.0% | 10 | 11 | 5 | 6 | 0 | 0 | 0 | 0 |
| Hawaii | 67 | 67 | 0.4% | 0 | 0 | 67 | 67 | 0 | 0 | 0 | 0 |
| U.S. Total | 26,757 | 25,753 | 3.9% | 3,482 | 3,743 | 23,251 | 21,988 | 15 | 15 | 8 | 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.
Notes: See Glossary for definitions. Values are preliminary. 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 1.14.B. Utility Scale Facility Net Generation from Wind

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 1,418 | 1,206 | 17.5% | 91 | 82 | 1,313 | 1,113 | 13 | 12 | 1 | 0 |
| Connecticut | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Maine | 940 | 820 | 14.7% | 0 | 0 | 940 | 820 | 0 | 0 | 0 | 0 |
| Massachusetts | 91 | 81 | 11.9% | 22 | 21 | 58 | 52 | 9 | 9 | 1 | 0 |
| New Hampshire | 173 | 149 | 16.5% | 0 | 0 | 173 | 149 | 0 | 0 | 0 | 0 |
| Rhode Island | 65 | 53 | 22.5% | 0 | 0 | 62 | 50 | 3 | 3 | 0 | 0 |
| Vermont | 143 | 99 | 45.2% | 68 | 60 | 75 | 38 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 3,015 | 2,694 | 11.9% | 0 | 0 | 3,012 | 2,693 | NM | 0 | 1 | 1 |
| New Jersey | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| New York | 1,628 | 1,439 | 13.1% | 0 | 0 | 1,626 | 1,439 | NM | 0 | 1 | 1 |
| Pennsylvania | 1,379 | 1,248 | 10.5% | 0 | 0 | 1,379 | 1,248 | 0 | 0 | 0 | 0 |
| East North Central | 10,634 | 9,074 | 17.2% | 1,137 | 1,048 | 9,464 | 8,001 | NM | NM | 30 | 21 |
| Illinois | 4,926 | 4,353 | 13.2% | 5 | NM | 4,919 | 4,346 | NM | NM | 0 | 0 |
| Indiana | 2,202 | 1,714 | 28.5% | 0 | 0 | 2,202 | 1,713 | 0 | 1 | 0 | 0 |
| Michigan | 2,064 | 1,862 | 10.9% | 745 | 720 | 1,319 | 1,142 | 0 | 0 | 0 | 0 |
| Ohio | 708 | 636 | 11.2% | NM | NM | 675 | 614 | 1 | 2 | 27 | 18 |
| Wisconsin | 735 | 510 | 44.3% | 382 | 321 | 350 | 186 | 0 | 0 | 3 | 3 |
| West North Central | 28,520 | 26,525 | 7.5% | 9,153 | 8,977 | 19,350 | 17,531 | 17 | 17 | 0 | 0 |
| Iowa | 8,376 | 7,950 | 5.4% | 5,355 | 5,186 | 3,020 | 2,763 | 1 | 2 | 0 | 0 |
| Kansas | 7,223 | 6,672 | 8.3% | 722 | 553 | 6,496 | 6,114 | NM | NM | 0 | 0 |
| Minnesota | 4,440 | 4,123 | 7.7% | 974 | 1,007 | 3,456 | 3,105 | 11 | NM | 0 | 0 |
| Missouri | 1,141 | 631 | 81.0% | 0 | 0 | 1,141 | 631 | 0 | 0 | 0 | 0 |
| Nebraska | 2,027 | 1,990 | 1.8% | 67 | 67 | 1,960 | 1,923 | 0 | 0 | 0 | 0 |
| North Dakota | 4,157 | 3,914 | 6.2% | 1,676 | 1,766 | 2,481 | 2,148 | 0 | 0 | 0 | 0 |
| South Dakota | 1,155 | 1,245 | -7.2% | 359 | 397 | 795 | 847 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,158 | 964 | 20.1% | 0 | 0 | 1,156 | 962 | 2 | 2 | 0 | 0 |
| Delaware | 2 | 2 | 7.4% | 0 | 0 | 0 | 0 | 2 | 2 | 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 | 202 | 191 | 5.7% | 0 | 0 | 202 | 191 | 0 | 0 | 0 | 0 |
| North Carolina | 245 | 178 | 37.7% | 0 | 0 | 245 | 178 | 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 | 708 | 593 | 19.5% | 0 | 0 | 708 | 593 | 0 | 0 | 0 | 0 |
| East South Central | 16 | NM | NM | 0 | 0 | 16 | NM | 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 | 16 | NM | NM | 0 | 0 | 16 | NM | 0 | 0 | 0 | 0 |
| West South Central | 38,516 | 34,702 | 11.0% | 603 | 691 | 37,894 | 33,998 | 18 | 13 | 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 | 10,784 | 9,192 | 17.3% | 505 | 592 | 10,279 | 8,600 | 0 | 0 | 0 | 0 |
| Texas | 27,732 | 25,510 | 8.7% | 99 | 99 | 27,616 | 25,398 | 18 | 13 | 0 | 0 |
| Mountain | 10,210 | 9,196 | 11.0% | 1,018 | 984 | 9,189 | 8,207 | NM | NM | 1 | 1 |
| Arizona | 213 | 232 | -8.2% | 0 | 0 | 213 | 232 | 0 | 0 | 0 | 0 |
| Colorado | 3,692 | 3,590 | 2.8% | 119 | 119 | 3,571 | 3,467 | NM | NM | 1 | 1 |
| Idaho | 988 | 907 | 8.9% | 48 | 0 | 940 | 907 | 0 | 0 | 0 | 0 |
| Montana | 836 | 825 | 1.3% | 86 | 88 | 751 | 738 | 0 | 0 | 0 | 0 |
| Nevada | 133 | 142 | -6.2% | 0 | 0 | 133 | 142 | 0 | 0 | 0 | 0 |
| New Mexico | 2,343 | 1,457 | 60.8% | 0 | 0 | 2,342 | 1,456 | NM | NM | 0 | 0 |
| Utah | 301 | 370 | -18.5% | 0 | 0 | 301 | 370 | 0 | 0 | 0 | 0 |
| Wyoming | 1,703 | 1,672 | 1.8% | 766 | 777 | 937 | 895 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 11,004 | 10,182 | 8.1% | 2,274 | 1,963 | 8,727 | 8,216 | 2 | 3 | 1 | 1 |
| California | 5,193 | 5,356 | -3.0% | 147 | 186 | 5,043 | 5,166 | 2 | 3 | 1 | 1 |
| Oregon | 2,666 | 2,045 | 30.4% | 404 | 271 | 2,263 | 1,774 | 0 | 0 | 0 | 0 |
| Washington | 3,144 | 2,781 | 13.1% | 1,724 | 1,505 | 1,421 | 1,275 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 310 | 310 | 0.0% | 42 | 39 | 269 | 271 | 0 | 0 | 0 | 0 |
| Alaska | 64 | 61 | 5.0% | 42 | 39 | 23 | 22 | 0 | 0 | 0 | 0 |
| Hawaii | 246 | 249 | -1.2% | 0 | 0 | 246 | 249 | 0 | 0 | 0 | 0 |
| U.S. Total | 104,801 | 94,862 | 10.5% | 14,318 | 13,784 | 90,390 | 81,000 | 59 | 54 | 34 | 24 |

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 preliminary. 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 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 466 | 528 | -11.9% | 16 | 19 | 352 | 404 | 11 | 11 | 86 | 95 |
| Connecticut | 45 | 68 | -34.4% | 0 | 0 | 45 | 68 | 0 | 0 | 0 | 0 |
| Maine | 199 | 224 | -11.5% | 0 | 0 | 109 | 122 | 4 | 8 | 86 | 95 |
| Massachusetts | 91 | 92 | -0.3% | 0 | 0 | 89 | 89 | 2 | 2 | 0 | 0 |
| New Hampshire | 87 | 100 | -13.4% | 0 | 4 | 82 | 96 | 4 | 0 | 0 | 0 |
| Rhode Island | 18 | 17 | 4.1% | 0 | 0 | 18 | 17 | 0 | 0 | 0 | 0 |
| Vermont | 27 | 27 | -2.2% | 16 | 15 | NM | NM | 0 | 0 | 0 | 0 |
| Middle Atlantic | 452 | 440 | 2.6% | 0 | 0 | 343 | 330 | 42 | 44 | 67 | 67 |
| New Jersey | 82 | 70 | 17.3% | 0 | 0 | 68 | 57 | 15 | 13 | 0 | 0 |
| New York | 186 | 180 | 3.3% | 0 | 0 | 154 | 148 | 17 | 18 | 15 | 14 |
| Pennsylvania | 184 | 190 | -3.5% | 0 | 0 | 122 | 125 | 10 | 13 | 52 | 53 |
| East North Central | 445 | 470 | -5.4% | 53 | 64 | 245 | 260 | 17 | 17 | 129 | 130 |
| Illinois | 38 | 40 | -4.1% | 2 | 2 | 37 | 38 | 0 | 0 | 0 | 0 |
| Indiana | 36 | 35 | 3.5% | 23 | 23 | 4 | 4 | 2 | 1 | 7 | 7 |
| Michigan | 189 | 202 | -6.2% | 0 | 0 | 124 | 139 | 10 | 10 | 55 | 52 |
| Ohio | 58 | 59 | -1.7% | NM | NM | 38 | 38 | 0 | 1 | 20 | 20 |
| Wisconsin | 123 | 135 | -8.6% | 28 | 39 | 42 | 40 | 6 | 5 | 48 | 51 |
| West North Central | 182 | 195 | -6.6% | 43 | 44 | 83 | 91 | 9 | 11 | 47 | 48 |
| Iowa | 18 | 14 | 33.1% | NM | NM | 10 | 5 | 4 | 3 | 2 | 4 |
| Kansas | 5 | 5 | 3.3% | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 |
| Minnesota | 141 | 157 | -10.3% | 31 | 33 | 64 | 79 | NM | NM | 45 | 44 |
| Missouri | 9 | 11 | -17.7% | NM | NM | NM | 4 | 2 | 4 | 0 | 0 |
| Nebraska | 8 | 8 | 4.1% | 7 | 6 | 0 | 0 | 1 | 2 | 0 | 0 |
| North Dakota | 0 | 0 | 179.6% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,562 | 1,575 | -0.8% | 157 | 156 | 509 | 526 | 27 | 24 | 869 | 868 |
| Delaware | 5 | 5 | 1.7% | 0 | 0 | NM | 4 | 0 | 0 | NM | NM |
| District of Columbia | 5 | 4 | 34.5% | 0 | 0 | 0 | 4 | 5 | 0 | 0 | 0 |
| Florida | 405 | 440 | -7.8% | 24 | 8 | 206 | 258 | 3 | 4 | 171 | 170 |
| Georgia | 378 | 369 | 2.3% | 0 | 0 | 38 | 36 | 0 | 0 | 340 | 333 |
| Maryland | 46 | 42 | 10.5% | 0 | 0 | 34 | 32 | 1 | NM | 11 | 9 |
| North Carolina | 218 | 184 | 18.7% | 0 | 0 | 109 | 98 | NM | NM | 108 | 85 |
| South Carolina | 201 | 211 | -4.7% | 37 | 36 | NM | 29 | 0 | 0 | 136 | 146 |
| Virginia | 303 | 321 | -5.4% | 95 | 113 | 89 | 65 | 17 | 19 | 102 | 124 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 480 | 513 | -6.4% | 7 | 7 | 30 | 30 | 0 | 0 | 443 | 477 |
| Alabama | 251 | 274 | -8.4% | 0 | 0 | 21 | 22 | 0 | 0 | 229 | 252 |
| Kentucky | 36 | 36 | 1.6% | 7 | 7 | 1 | 1 | 0 | 0 | 28 | 28 |
| Mississippi | 129 | 125 | 3.1% | 0 | 0 | NM | NM | 0 | 0 | 128 | 124 |
| Tennessee | 64 | 79 | -18.3% | 0 | 0 | 7 | 7 | 0 | 0 | 58 | 72 |
| West South Central | 492 | 509 | -3.3% | 0 | 0 | 58 | 71 | 3 | 3 | 431 | 434 |
| Arkansas | 126 | 123 | 2.2% | 0 | 0 | 9 | 9 | 0 | 1 | 117 | 114 |
| Louisiana | 220 | 231 | -4.6% | 0 | 0 | 7 | 7 | 0 | 0 | 214 | 224 |
| Oklahoma | 31 | 25 | 27.0% | 0 | 0 | NM | NM | 0 | 0 | 30 | 23 |
| Texas | 114 | 130 | -12.0% | 0 | 0 | 41 | 55 | 3 | 3 | 71 | 72 |
| Mountain | 87 | 86 | 0.9% | NM | NM | 50 | 52 | 1 | 2 | 35 | 31 |
| Arizona | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Colorado | 14 | 14 | 0.7% | 0 | 0 | 14 | 14 | 0 | 0 | 0 | 0 |
| Idaho | 44 | 41 | 6.0% | NM | NM | 9 | 10 | 0 | 1 | 33 | 29 |
| Montana | 2 | 2 | -1.7% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Nevada | 5 | 5 | 3.7% | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 |
| New Mexico | 2 | 1 | 11.8% | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| Utah | 6 | 7 | -5.1% | 0 | 0 | 5 | 5 | 1 | 1 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 679 | 706 | -3.7% | 46 | 56 | 351 | 383 | 67 | 70 | 215 | 196 |
| California | 436 | 468 | -6.9% | 6 | 12 | 312 | 339 | 63 | 66 | 55 | 52 |
| Oregon | 81 | 85 | -5.1% | 5 | 5 | 30 | 33 | 3 | 3 | 44 | 44 |
| Washington | 162 | 152 | 6.9% | 35 | 39 | 10 | 11 | NM | NM | 116 | 100 |
| Pacific Noncontiguous | 27 | 21 | 28.9% | 6 | 4 | 0 | 0 | 21 | 17 | 0 | NM |
| Alaska | 4 | 3 | 30.2% | 0 | 0 | 0 | 0 | 4 | 3 | 0 | NM |
| Hawaii | 23 | 18 | 28.7% | 6 | 4 | 0 | 0 | 17 | 14 | 0 | 0 |
| U.S. Total | 4,873 | 5,044 | -3.4% | 329 | 351 | 2,021 | 2,148 | 199 | 199 | 2,323 | 2,346 |

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 preliminary. 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 1.15.B. Utility Scale Facility Net Generation from Biomass

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 2,287 | 2,365 | -3.3% | 189 | 176 | 1,679 | 1,757 | 50 | 50 | 369 | 382 |
| Connecticut | 237 | 266 | -10.9% | 0 | 0 | 237 | 266 | 0 | 0 | 0 | 0 |
| Maine | 924 | 962 | -3.9% | 0 | 0 | 530 | 551 | 26 | 29 | 369 | 382 |
| Massachusetts | 385 | 378 | 1.7% | 0 | 0 | 376 | 369 | 9 | 9 | 0 | 0 |
| New Hampshire | 511 | 542 | -5.7% | 79 | 84 | 417 | 446 | 15 | 12 | 0 | 0 |
| Rhode Island | 68 | 68 | -0.6% | 0 | 0 | 68 | 68 | 0 | 0 | 0 | 0 |
| Vermont | 162 | 148 | 9.1% | 110 | 92 | 51 | 55 | 1 | 1 | 0 | 0 |
| Middle Atlantic | 1,842 | 1,858 | -0.9% | 0 | 0 | 1,392 | 1,402 | 173 | 172 | 277 | 284 |
| New Jersey | 324 | 312 | 3.9% | 0 | 0 | 265 | 255 | 60 | 57 | 0 | 0 |
| New York | 736 | 719 | 2.3% | 0 | 0 | 603 | 587 | 65 | 66 | 68 | 67 |
| Pennsylvania | 782 | 826 | -5.4% | 0 | 0 | 524 | 560 | 48 | 49 | 209 | 217 |
| East North Central | 1,936 | 1,929 | 0.3% | 263 | 257 | 1,062 | 1,085 | 66 | 69 | 544 | 518 |
| Illinois | 156 | 166 | -6.2% | 7 | 8 | 149 | 159 | 0 | 0 | 0 | 0 |
| Indiana | 146 | 145 | 1.1% | 95 | 94 | 16 | 16 | 7 | 7 | 28 | 28 |
| Michigan | 841 | 831 | 1.2% | 0 | 0 | 575 | 587 | 38 | 40 | 228 | 204 |
| Ohio | 236 | 246 | -4.1% | NM | NM | 153 | 157 | 2 | 3 | 79 | 84 |
| Wisconsin | 557 | 541 | 2.8% | 160 | 154 | 169 | 166 | 19 | 20 | 209 | 202 |
| West North Central | 800 | 807 | -0.8% | 179 | 176 | 342 | 359 | 46 | 44 | 233 | 228 |
| Iowa | 74 | 54 | 36.6% | 7 | 7 | 41 | 19 | 17 | 13 | 8 | 15 |
| Kansas | 19 | 19 | 1.5% | 0 | 0 | 19 | 19 | 0 | 0 | 0 | 0 |
| Minnesota | 627 | 652 | -3.9% | 133 | 131 | 265 | 305 | 9 | 7 | 220 | 209 |
| Missouri | 46 | 47 | -2.6% | 13 | 13 | 16 | 16 | 16 | 17 | 1 | 1 |
| Nebraska | 30 | 31 | -3.6% | 26 | 25 | 0 | 0 | 4 | 7 | 0 | 0 |
| North Dakota | 4 | 3 | 39.8% | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 6,782 | 6,548 | 3.6% | 733 | 657 | 2,336 | 2,209 | 87 | 92 | 3,626 | 3,589 |
| Delaware | 22 | 22 | 0.4% | 0 | 0 | 17 | 17 | 0 | 0 | 5 | 5 |
| District of Columbia | 20 | 18 | 15.9% | 0 | 0 | 15 | 18 | 5 | 0 | 0 | 0 |
| Florida | 1,757 | 1,750 | 0.4% | 82 | 29 | 957 | 1,001 | 17 | 17 | 701 | 703 |
| Georgia | 1,672 | 1,559 | 7.3% | 0 | 0 | 285 | 201 | 0 | 0 | 1,387 | 1,358 |
| Maryland | 181 | 171 | 5.5% | 0 | 0 | 138 | 125 | 7 | 5 | 36 | 40 |
| North Carolina | 876 | 814 | 7.6% | 0 | 0 | 413 | 409 | 4 | 4 | 459 | 401 |
| South Carolina | 867 | 882 | -1.7% | 157 | 150 | 129 | 135 | 0 | 0 | 582 | 597 |
| Virginia | 1,387 | 1,333 | 4.1% | 494 | 478 | 383 | 303 | 55 | 66 | 456 | 485 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 2,001 | 2,062 | -3.0% | 30 | 30 | 123 | 123 | 0 | 0 | 1,848 | 1,909 |
| Alabama | 1,091 | 1,107 | -1.5% | 0 | 0 | 90 | 90 | 0 | 0 | 1,001 | 1,016 |
| Kentucky | 148 | 145 | 2.1% | 30 | 30 | 2 | 3 | 0 | 0 | 116 | 113 |
| Mississippi | 456 | 490 | -7.0% | 0 | 0 | 3 | 3 | 0 | 0 | 453 | 487 |
| Tennessee | 306 | 319 | -4.3% | 0 | 0 | 27 | 27 | 0 | 0 | 278 | 292 |
| West South Central | 2,020 | 2,040 | -1.0% | 0 | 0 | 271 | 290 | 13 | 13 | 1,735 | 1,736 |
| Arkansas | 507 | 491 | 3.4% | 0 | 0 | 40 | 38 | 2 | 2 | 466 | 450 |
| Louisiana | 890 | 909 | -2.1% | 0 | 0 | 28 | 27 | 0 | 0 | 863 | 882 |
| Oklahoma | 117 | 110 | 6.3% | 0 | 0 | 5 | 5 | 0 | 0 | 112 | 105 |
| Texas | 505 | 529 | -4.6% | 0 | 0 | 199 | 220 | 11 | 11 | 294 | 298 |
| Mountain | 360 | 354 | 1.6% | 4 | 4 | 214 | 219 | 7 | 8 | 135 | 123 |
| Arizona | 69 | 74 | -6.3% | 0 | 0 | 69 | 74 | 0 | 0 | 0 | 0 |
| Colorado | 52 | 57 | -7.6% | 0 | 0 | 52 | 57 | 0 | 0 | 0 | 0 |
| Idaho | 179 | 164 | 9.2% | 4 | 4 | 45 | 41 | 3 | 4 | 128 | 116 |
| Montana | 7 | 7 | -3.0% | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| Nevada | 20 | 20 | 0.9% | 0 | 0 | 20 | 20 | 0 | 0 | 0 | 0 |
| New Mexico | 7 | 6 | 2.2% | 0 | 0 | 7 | 6 | 0 | 0 | 0 | 0 |
| Utah | 25 | 26 | -1.7% | 0 | 0 | 21 | 21 | 4 | 4 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 2,945 | 2,919 | 0.9% | 235 | 246 | 1,553 | 1,567 | 277 | 290 | 880 | 816 |
| California | 1,903 | 1,927 | -1.3% | 45 | 55 | 1,374 | 1,393 | 260 | 274 | 224 | 206 |
| Oregon | 355 | 341 | 4.4% | 21 | 21 | 140 | 136 | 11 | 10 | 184 | 174 |
| Washington | 687 | 651 | 5.6% | 169 | 171 | 40 | 38 | 6 | 6 | 472 | 436 |
| Pacific Noncontiguous | 96 | 89 | 7.8% | 19 | 18 | 0 | 0 | 77 | 72 | 0 | NM |
| Alaska | 16 | 11 | 40.3% | 0 | 0 | 0 | 0 | 16 | 11 | 0 | NM |
| Hawaii | 81 | 78 | 3.2% | 19 | 18 | 0 | 0 | 62 | 60 | 0 | 0 |
| U.S. Total | 21,068 | 20,970 | 0.5% | 1,652 | 1,563 | 8,972 | 9,012 | 796 | 811 | 9,648 | 9,584 |

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 preliminary. 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 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| 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 | 312 | 336 | -7.0% | 20 | 23 | 292 | 313 | 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 | NM | 6 | NM | 0 | 0 | NM | 6 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 272 | 288 | -5.9% | 0 | 0 | 272 | 288 | 0 | 0 | 0 | 0 |
| New Mexico | 1 | 1 | -8.7% | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Utah | 34 | 40 | -14.7% | 20 | 23 | 14 | 17 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 881 | 1,000 | -11.9% | 56 | 69 | 825 | 931 | 0 | 0 | 0 | 0 |
| California | 867 | 983 | -11.8% | 56 | 68 | 811 | 915 | 0 | 0 | 0 | 0 |
| Oregon | 14 | 17 | -18.6% | 0 | 1 | 14 | 17 | 0 | 0 | 0 | 0 |
| Washington | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 19 | 22 | -13.4% | 0 | 0 | 19 | 22 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 19 | 22 | -13.4% | 0 | 0 | 19 | 22 | 0 | 0 | 0 | 0 |
| U.S. Total | 1,212 | 1,357 | -10.7% | 76 | 92 | 1,136 | 1,266 | 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 preliminary. 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 1.16.B. Utility Scale Facility Net Generation from Geothermal

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| 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 | 1,354 | 1,317 | 2.8% | 86 | 90 | 1,268 | 1,227 | 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 | 22 | 23 | -3.0% | 0 | 0 | 22 | 23 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 1,179 | 1,133 | 4.1% | 0 | 0 | 1,179 | 1,133 | 0 | 0 | 0 | 0 |
| New Mexico | 4 | 5 | -27.0% | 0 | 0 | 4 | 5 | 0 | 0 | 0 | 0 |
| Utah | 149 | 157 | -4.8% | 86 | 90 | 63 | 67 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 3,837 | 3,976 | -3.5% | 244 | 257 | 3,593 | 3,719 | 0 | 0 | 0 | 0 |
| California | 3,776 | 3,910 | -3.4% | 244 | 256 | 3,531 | 3,653 | 0 | 0 | 0 | 0 |
| Oregon | 61 | 66 | -7.9% | 0 | 1 | 61 | 65 | 0 | 0 | 0 | 0 |
| Washington | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 82 | 85 | -3.7% | 0 | 0 | 82 | 85 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 82 | 85 | -3.7% | 0 | 0 | 82 | 85 | 0 | 0 | 0 | 0 |
| U.S. Total | 5,272 | 5,378 | -2.0% | 330 | 347 | 4,942 | 5,031 | 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 preliminary. 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 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | | | | | Electric Power Sector | | | | Commercial Sector | | | | | | Industrial Sector | | | | | | Residential Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Electric Utilities | | Independent Power Producers | | | | | | | | | | | | | | | |
| | Estimated Generation From Utility and Small Scale Facilities | | | Generation at Utility Scale Facilities | | Estimated Small Scale Generation | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Estimated Generation From Utility and Small Scale Facilities | | Generation at Utility Scale Facilities | | Estimated Small Scale Generation | | Estimated Generation From Utility and Small Scale Facilities | | Generation at Utility Scale Facilities | | Estimated Small Scale Generation | | Estimated Small Scale Generation | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 411 | 310 | 32.5% | 157 | 102 | 254 | 208 | 7 | 7 | 149 | 95 | NM | NM | NM | NM | 133 | 113 | NM | 10 | NM | 0 | 12 | 10 | 109 | 85 |
| Connecticut | 57 | 43 | 33.7% | 12 | 5 | 46 | 38 | 0 | 0 | 11 | NM | NM | 14 | NM | 0 | 18 | 14 | NM | 2 | NM | 0 | 2 | 2 | 26 | 22 |
| Maine | NM | 5 | NM | NM | NM | 5 | 4 | 0 | 0 | NM | NM | 2 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 |
| Massachusetts | 297 | 226 | 31.5% | 126 | 84 | 171 | 142 | NM | NM | 123 | 81 | NM | NM | NM | NM | 101 | 89 | 9 | 7 | 0 | 0 | 9 | 7 | 61 | 47 |
| New Hampshire | 10 | 8 | 25.9% | 0 | 0 | 10 | 8 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 7 | 5 |
| Rhode Island | 12 | 6 | 88.7% | 4 | NM | 8 | 5 | 0 | 0 | 4 | NM | 4 | 2 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 |
| Vermont | 28 | 22 | 25.7% | 14 | 11 | 13 | 11 | 5 | NM | 9 | NM | 5 | 4 | 0 | 0 | 5 | 4 | NM | 0 | 0 | 0 | NM | 0 | 8 | 7 |
| Middle Atlantic | 521 | 420 | 23.8% | 158 | 120 | 362 | 300 | 9 | 8 | 129 | 96 | 178 | 150 | 18 | 15 | 160 | 135 | NM | NM | NM | NM | 19 | 17 | 184 | 149 |
| New Jersey | 302 | 251 | 20.6% | 119 | 96 | 183 | 155 | 9 | 8 | 93 | 74 | 107 | 95 | 16 | 14 | 91 | 81 | NM | NM | NM | NM | 12 | 9 | 80 | 64 |
| New York | 172 | 129 | 33.8% | 30 | 17 | 142 | 111 | 0 | 0 | 29 | 17 | NM | NM | NM | NM | 57 | 40 | 2 | 1 | 0 | 0 | 2 | 1 | 83 | 70 |
| Pennsylvania | 46 | 41 | 12.0% | 9 | 7 | 37 | 34 | 0 | 0 | 7 | NM | NM | NM | NM | NM | 12 | 13 | NM | NM | NM | NM | 5 | 6 | 20 | 15 |
| East North Central | 123 | 83 | 47.0% | 75 | 50 | 47 | 34 | 27 | 14 | 48 | 35 | NM | NM | NM | NM | 29 | 21 | 3 | 2 | 0 | 0 | 3 | 2 | 16 | 11 |
| Illinois | 14 | 9 | 60.6% | 6 | 4 | 8 | 5 | 0 | 0 | 5 | 4 | NM | 3 | NM | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 |
| Indiana | 46 | 33 | 38.8% | 38 | 31 | 9 | 3 | 15 | 11 | 23 | 20 | 6 | 1 | 0 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| Michigan | 22 | 11 | 102.0% | 14 | NM | 8 | 9 | 11 | NM | NM | 0 | 4 | 5 | 0 | 0 | 4 | 5 | NM | 0 | 0 | 0 | NM | 0 | 4 | 3 |
| Ohio | 29 | 24 | 22.0% | 14 | 11 | 15 | 13 | NM | NM | 13 | 10 | NM | NM | NM | NM | 11 | 10 | NM | 1 | 0 | 0 | NM | 1 | 3 | 2 |
| Wisconsin | 12 | 7 | 70.3% | 4 | NM | 7 | 5 | 0 | 0 | 4 | NM | 3 | 2 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 3 | 2 |
| West North Central | 193 | 87 | 122.8% | 150 | 52 | 43 | 35 | NM | NM | 147 | 51 | 22 | 18 | 0 | 0 | 22 | 18 | 2 | 1 | 0 | 0 | 2 | 1 | 20 | 16 |
| Iowa | NM | 9 | NM | NM | NM | 12 | 8 | NM | NM | NM | 0 | 7 | 5 | 0 | 0 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 |
| Kansas | NM | 2 | NM | NM | 0 | 2 | 1 | NM | 0 | NM | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Minnesota | 145 | 51 | 184.3% | 137 | 45 | 8 | 6 | NM | NM | 136 | 45 | 3 | 2 | 0 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 3 |
| Missouri | 29 | 23 | 24.1% | 8 | 5 | 21 | 19 | 0 | 0 | 8 | 4 | 10 | 10 | 0 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 9 |
| Nebraska | NM | 2 | NM | NM | NM | 1 | 0 | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 0 | 0 | 0 | NM | 0 | 0 | 0 |
| North Dakota | 0 | 0 | 1.4% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | NM | 0 | NM | NM | NM | 0 | 0 | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 1,523 | 982 | 55.1% | 1,310 | 816 | 212 | 166 | 285 | 130 | 1,011 | 673 | 75 | 67 | 14 | 13 | 61 | 54 | NM | 23 | NM | 0 | 28 | 23 | 123 | 90 |
| Delaware | 16 | 13 | 17.2% | 6 | NM | 10 | 8 | NM | NM | 5 | NM | NM | NM | NM | NM | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 |
| District of Columbia | 6 | 5 | 35.2% | 0 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Florida | 267 | 91 | 192.7% | 229 | 65 | 38 | 27 | 187 | 58 | 40 | NM | NM | NM | NM | NM | 10 | 9 | NM | 1 | NM | 0 | 1 | 1 | 27 | 17 |
| Georgia | NM | 223 | NM | 215 | 202 | NM | 20 | 30 | 27 | 184 | 175 | NM | NM | NM | NM | NM | 3 | NM | NM | 0 | 0 | NM | NM | NM | 1 |
| Maryland | 129 | 99 | 30.9% | 46 | 30 | 84 | 69 | NM | NM | 44 | 28 | NM | NM | NM | NM | 22 | 20 | 3 | 3 | 0 | 0 | 3 | 3 | 58 | 46 |
| North Carolina | 689 | 500 | 37.9% | 670 | 481 | 19 | 19 | 38 | 32 | 619 | 438 | 23 | 24 | 12 | 12 | 11 | 12 | 1 | 1 | 0 | 0 | 1 | 1 | 8 | 6 |
| South Carolina | 78 | 15 | 406.9% | 57 | NM | 22 | 12 | 0 | 0 | 57 | NM | 5 | 3 | 0 | 0 | 5 | 3 | 2 | 1 | 0 | 0 | 2 | 1 | 14 | 8 |
| Virginia | 96 | 35 | 175.3% | 88 | 29 | 8 | 6 | 27 | 12 | 61 | 17 | 3 | 2 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 |
| West Virginia | 1 | 1 | 21.5% | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| East South Central | 108 | 45 | 139.3% | 94 | 33 | 14 | 12 | 9 | 4 | 84 | 28 | NM | NM | NM | NM | 9 | 8 | NM | 0 | NM | 0 | 1 | 0 | 4 | 4 |
| Alabama | NM | 19 | NM | 37 | 18 | NM | NM | 4 | NM | 33 | 16 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| Kentucky | 8 | 4 | 101.1% | 5 | 2 | 3 | 2 | 5 | 2 | NM | 0 | 2 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Mississippi | 36 | 2 | NM | 34 | NM | 2 | 1 | 0 | 0 | 34 | NM | NM | 1 | 0 | 0 | NM | 1 | NM | NM | 0 | 0 | NM | NM | 0 | 0 |
| Tennessee | 26 | 21 | 27.8% | 18 | 13 | 8 | 8 | 0 | 0 | 17 | 12 | NM | NM | NM | NM | 6 | 6 | NM | 0 | NM | 0 | NM | 0 | 2 | 2 |
| West South Central | 390 | 281 | 38.7% | 282 | 197 | 108 | 85 | 8 | NM | 274 | 193 | 29 | 22 | 0 | 0 | 29 | 22 | NM | 0 | 0 | 0 | NM | 0 | 80 | 63 |
| Arkansas | 20 | 4 | 428.4% | 18 | 3 | 2 | 1 | NM | NM | 18 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Louisiana | NM | 20 | NM | NM | 0 | 22 | 20 | NM | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 19 |
| Oklahoma | 7 | 4 | 102.8% | 7 | NM | 1 | 1 | 7 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Texas | 340 | 254 | 34.1% | 256 | 190 | 84 | 63 | NM | 0 | 256 | 190 | 27 | 21 | 0 | 0 | 27 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 43 |
| Mountain | 1,629 | 1,446 | 12.7% | 1,273 | 1,147 | 356 | 299 | 106 | 86 | 1,157 | 1,052 | 103 | 95 | 10 | 9 | 93 | 85 | 17 | 16 | 0 | 0 | 17 | 16 | 246 | 198 |
| Arizona | 607 | 549 | 10.4% | 413 | 383 | 194 | 166 | 77 | 58 | 334 | 323 | NM | NM | NM | NM | 46 | 44 | 14 | 13 | 0 | 0 | 14 | 13 | 134 | 110 |
| Colorado | 153 | 134 | 14.5% | 98 | 85 | 55 | 49 | NM | 0 | 96 | 84 | NM | NM | NM | NM | 20 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 29 |
| Idaho | 55 | 52 | 6.3% | 52 | 50 | 3 | 1 | 0 | 0 | 52 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| Montana | NM | 3 | NM | NM | NM | 2 | 1 | 0 | 0 | NM | NM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Nevada | 442 | 377 | 17.2% | 398 | 338 | 44 | 39 | 4 | 4 | 387 | 328 | 16 | NM | 6 | NM | 10 | 9 | 3 | 2 | 0 | 0 | 2 | 2 | 32 | 28 |
| New Mexico | 141 | 121 | 16.2% | 117 | 104 | 23 | 18 | 24 | 23 | 93 | 80 | 8 | 7 | 0 | 0 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 11 |
| Utah | 225 | 210 | 7.5% | 190 | 185 | 35 | 25 | 0 | 0 | 190 | 185 | 7 | 6 | 0 | 0 | 7 | 6 | 1 | 1 | 0 | 0 | 1 | 1 | 27 | 18 |
| Wyoming | 1 | 0 | 44.0% | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 3,513 | 2,919 | 20.3% | 2,279 | 1,932 | 1,234 | 987 | 55 | 47 | 2,206 | 1,873 | 306 | 225 | 14 | 12 | 293 | 213 | 186 | NM | 4 | NM | 182 | 159 | 759 | 615 |
| California | 3,429 | 2,871 | 19.4% | 2,229 | 1,912 | 1,199 | 959 | 54 | 46 | 2,157 | 1,853 | 296 | 215 | 14 | 12 | 282 | 204 | 185 | NM | 4 | NM | 181 | 157 | 737 | 598 |
| Oregon | 69 | 37 | 86.9% | 50 | 20 | 19 | 17 | NM | NM | 49 | 20 | 8 | 8 | 0 | 0 | 8 | 8 | 1 | 1 | 0 | 0 | 1 | 1 | 10 | 8 |
| Washington | 15 | 11 | 29.9% | 0 | 0 | 15 | 11 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | NM | 0 | 0 | 0 | NM | 0 | 12 | 10 |
| Pacific Noncontiguous | 108 | 100 | 8.2% | 18 | 15 | 90 | 85 | 3 | 4 | 15 | 11 | 35 | 31 | 0 | 0 | 35 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 54 |
| Alaska | 0 | 0 | 36.9% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 108 | 100 | 8.2% | 18 | 15 | 90 | 85 | 3 | 4 | 15 | 11 | 35 | 31 | 0 | 0 | 35 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 53 |
| U.S. Total | 8,518 | 6,674 | 27.6% | 5,797 | 4,464 | 2,721 | 2,211 | 512 | 303 | 5,219 | 4,108 | 921 | 750 | 58 | 50 | 863 | 700 | 270 | NM | 8 | NM | 263 | 227 | 1,596 | 1,284 |

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 preliminary. 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.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

**Table 1.17.B. Net Generation from Solar Photovoltaic**
**by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | | | | | Electric Power Sector | | | | Commercial Sector | | | | | | Industrial Sector | | | | | | Residential Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Electric Utilities | | Independent Power Producers | | | | | | | | | | | | | | | |
| | Estimated Generation From Utility and Small Scale Facilities | | | Generation at Utility Scale Facilities | | Estimated Small Scale Generation | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Estimated Generation From Utility and Small Scale Facilities | | Generation at Utility Scale Facilities | | Estimated Small Scale Generation | | Estimated Generation From Utility and Small Scale Facilities | | Generation at Utility Scale Facilities | | Estimated Small Scale Generation | | Estimated Small Scale Generation | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 1,280 | 934 | 37.0% | 454 | 297 | 826 | 637 | 23 | 21 | 430 | 274 | 459 | 356 | 2 | NM | 457 | 354 | 40 | 31 | NM | 0 | 40 | 31 | 329 | 252 |
| Connecticut | 173 | 131 | 32.2% | 29 | 15 | 144 | 116 | 1 | 1 | 28 | 14 | 57 | 45 | NM | 0 | 57 | 45 | 8 | 6 | NM | 0 | 8 | 6 | 79 | 64 |
| Maine | 20 | 14 | 39.9% | NM | NM | 16 | 12 | 0 | 0 | NM | NM | 5 | 4 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 8 |
| Massachusetts | 935 | 680 | 37.6% | 367 | 242 | 568 | 438 | 6 | 5 | 360 | 235 | 359 | 280 | 2 | NM | 357 | 279 | 29 | 23 | 0 | 0 | 29 | 23 | 182 | 136 |
| New Hampshire | 32 | 25 | 27.7% | 0 | 0 | 32 | 25 | 0 | 0 | 0 | 0 | 9 | 8 | 0 | 0 | 9 | 8 | 2 | 2 | 0 | 0 | 2 | 2 | 21 | 16 |
| Rhode Island | 38 | 19 | 94.5% | 11 | NM | 26 | 15 | 0 | 0 | 11 | NM | 14 | 7 | 0 | 0 | 14 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 7 |
| Vermont | 82 | 65 | 26.1% | 43 | 33 | 39 | 32 | 16 | 15 | 27 | 18 | 14 | 11 | 0 | 0 | 14 | 11 | 1 | 1 | 0 | 0 | 1 | 1 | 24 | 20 |
| Middle Atlantic | 1,591 | 1,274 | 24.9% | 467 | 355 | 1,124 | 919 | 27 | 23 | 382 | 283 | 563 | 468 | 52 | 43 | 511 | 425 | 68 | 59 | 6 | NM | 62 | 54 | 551 | 440 |
| New Jersey | 935 | 767 | 21.8% | 352 | 281 | 582 | 486 | 27 | 23 | 275 | 216 | 347 | 305 | 47 | 40 | 300 | 265 | 43 | 33 | NM | NM | 40 | 31 | 243 | 190 |
| New York | 512 | 380 | 34.7% | 88 | 52 | 424 | 328 | 0 | 0 | 86 | 50 | 172 | 120 | NM | NM | 171 | 118 | 5 | 4 | 0 | 0 | 5 | 4 | 248 | 206 |
| Pennsylvania | 144 | 126 | 14.1% | 26 | 21 | 118 | 105 | 0 | 0 | 21 | 17 | 44 | 43 | NM | NM | 41 | 42 | 20 | 22 | NM | NM | 17 | 20 | 60 | 44 |
| East North Central | 362 | 246 | 47.1% | 225 | 148 | 137 | 98 | 80 | 41 | 142 | 106 | 86 | 61 | NM | NM | 84 | 60 | 8 | 6 | 1 | 0 | 7 | 6 | 46 | 32 |
| Illinois | 41 | 28 | 50.3% | 17 | 14 | 25 | 14 | 1 | 1 | 15 | 13 | 17 | 8 | NM | 0 | 16 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 |
| Indiana | 137 | 99 | 39.1% | 112 | 91 | 25 | 8 | 45 | 33 | 67 | 58 | 16 | 3 | 0 | 0 | 16 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 8 | 4 |
| Michigan | 62 | 30 | 108.2% | 39 | 6 | 23 | 24 | 31 | 6 | 8 | 0 | 12 | 15 | 0 | 0 | 12 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 9 |
| Ohio | 86 | 70 | 22.5% | 42 | 33 | 43 | 37 | NM | NM | 38 | 29 | 33 | 29 | NM | NM | 32 | 28 | 3 | 2 | 1 | 0 | 2 | 2 | 10 | 7 |
| Wisconsin | 35 | 20 | 77.1% | 14 | NM | 21 | 15 | 0 | 0 | 14 | NM | 8 | 5 | 0 | 0 | 8 | 5 | 4 | 3 | 0 | 0 | 4 | 3 | 9 | 7 |
| West North Central | 561 | 264 | 112.4% | 429 | 158 | 132 | 107 | 8 | NM | 421 | 154 | 67 | 55 | 0 | 0 | 66 | 55 | 5 | 3 | 0 | 0 | 5 | 3 | 61 | 49 |
| Iowa | 39 | 26 | 53.5% | 5 | NM | 34 | 24 | 4 | NM | NM | 0 | 22 | 15 | 0 | 0 | 22 | 15 | 1 | 1 | 0 | 0 | 1 | 1 | 11 | 8 |
| Kansas | 9 | 5 | 65.4% | NM | 1 | 6 | 5 | NM | 0 | NM | 1 | 2 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 |
| Minnesota | 411 | 153 | 168.0% | 389 | 138 | 22 | 15 | NM | NM | 388 | 137 | 8 | 6 | 0 | 0 | 8 | 6 | 3 | 1 | 0 | 0 | 3 | 1 | 11 | 8 |
| Missouri | 92 | 74 | 24.8% | 26 | 13 | 66 | 61 | 1 | 0 | 24 | 13 | 34 | 32 | 0 | 0 | 33 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 28 |
| Nebraska | 8 | 5 | 74.6% | 6 | 3 | 2 | 1 | 0 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| North Dakota | 0 | 0 | 1.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 1 | 1 | 6.3% | NM | NM | 0 | 0 | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 4,615 | 2,940 | 57.0% | 3,944 | 2,419 | 671 | 521 | 907 | 411 | 2,994 | 1,970 | 241 | 215 | 42 | 38 | 199 | 177 | 93 | 72 | NM | 0 | 92 | 72 | 380 | 272 |
| Delaware | 49 | 41 | 20.1% | 17 | 14 | 32 | 26 | NM | NM | 14 | 12 | 10 | 9 | NM | NM | 10 | 8 | 2 | 2 | 0 | 0 | 2 | 2 | 20 | 16 |
| District of Columbia | 20 | 15 | 35.4% | 0 | 0 | 20 | 15 | 0 | 0 | 0 | 0 | 12 | 8 | 0 | 0 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 7 |
| Florida | 865 | 312 | 176.9% | 738 | 225 | 127 | 87 | 608 | 205 | 128 | 19 | 37 | 32 | NM | NM | 35 | 31 | 4 | 3 | NM | 0 | 3 | 3 | 88 | 54 |
| Georgia | 743 | 684 | 8.8% | 660 | 617 | 84 | 67 | 93 | 85 | 565 | 531 | 11 | 10 | NM | NM | 10 | 9 | 68 | 53 | 0 | 0 | 68 | 53 | 6 | 5 |
| Maryland | 365 | 296 | 23.2% | 115 | 89 | 250 | 207 | NM | NM | 110 | 85 | 71 | 65 | NM | NM | 69 | 63 | 11 | 10 | 0 | 0 | 11 | 10 | 170 | 134 |
| North Carolina | 2,041 | 1,439 | 41.8% | 1,979 | 1,374 | 62 | 64 | 115 | 80 | 1,826 | 1,260 | 72 | 76 | 37 | 34 | 35 | 42 | 2 | 2 | 0 | 0 | 2 | 2 | 25 | 20 |
| South Carolina | 239 | 45 | 428.1% | 170 | 12 | 68 | 33 | 0 | 0 | 170 | 12 | 18 | 7 | 0 | 0 | 18 | 7 | 6 | 3 | 0 | 0 | 6 | 3 | 45 | 23 |
| Virginia | 291 | 107 | 173.2% | 265 | 88 | 26 | 19 | 85 | 37 | 180 | 51 | 9 | 7 | 0 | 0 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 12 |
| West Virginia | 3 | 2 | 24.1% | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| East South Central | 324 | 133 | 144.7% | 281 | 94 | 44 | 39 | 27 | 7 | 250 | 85 | 30 | 28 | NM | NM | 28 | 27 | 4 | 0 | NM | 0 | 2 | 0 | 13 | 11 |
| Alabama | 113 | 52 | 115.8% | 110 | 50 | 3 | 2 | 12 | NM | 98 | 48 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Kentucky | 24 | 12 | 101.0% | 16 | 5 | 8 | 7 | 15 | 5 | NM | 0 | 5 | 4 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Mississippi | 106 | 5 | NM | 101 | NM | 5 | 3 | 0 | 0 | 101 | NM | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 1 |
| Tennessee | 81 | 63 | 28.2% | 54 | 37 | 27 | 26 | 0 | 0 | 51 | 36 | 21 | 21 | NM | NM | 19 | 19 | 2 | 0 | NM | 0 | 0 | 0 | 7 | 7 |
| West South Central | 1,290 | 748 | 72.3% | 942 | 501 | 347 | 247 | 21 | 6 | 921 | 494 | 92 | 61 | 1 | 1 | 91 | 60 | 1 | 0 | 0 | 0 | 1 | 0 | 256 | 187 |
| Arkansas | 64 | 11 | 461.8% | 59 | 8 | 5 | 3 | NM | NM | 58 | 8 | 2 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 2 |
| Louisiana | 71 | 64 | 10.6% | NM | 0 | 70 | 64 | NM | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 61 |
| Oklahoma | 21 | 7 | 181.4% | 18 | 6 | 3 | 2 | 18 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| Texas | 1,134 | 666 | 70.4% | 865 | 487 | 269 | 179 | NM | 0 | 863 | 486 | 85 | 57 | 1 | 1 | 85 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 185 | 122 |
| Mountain | 5,060 | 4,303 | 17.6% | 3,903 | 3,352 | 1,157 | 951 | 315 | 243 | 3,556 | 3,082 | 337 | 307 | 31 | 27 | 306 | 280 | 60 | 56 | 1 | 1 | 59 | 56 | 792 | 615 |
| Arizona | 1,911 | 1,674 | 14.2% | 1,278 | 1,144 | 634 | 530 | 229 | 163 | 1,043 | 974 | 160 | 150 | 6 | 6 | 153 | 144 | 47 | 45 | 0 | 0 | 47 | 45 | 433 | 341 |
| Colorado | 484 | 408 | 18.7% | 304 | 253 | 180 | 155 | NM | 0 | 297 | 248 | 73 | 67 | 5 | NM | 68 | 63 | 1 | 1 | 0 | 0 | 1 | 1 | 111 | 92 |
| Idaho | 163 | 112 | 46.0% | 156 | 108 | 7 | 4 | 0 | 0 | 156 | 108 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 |
| Montana | 17 | 6 | 193.4% | 11 | NM | 5 | 4 | 0 | 0 | 11 | NM | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 |
| Nevada | 1,352 | 1,110 | 21.7% | 1,212 | 989 | 140 | 122 | 12 | 12 | 1,180 | 959 | 51 | 47 | 19 | 17 | 32 | 30 | 9 | 8 | 1 | 1 | 8 | 7 | 100 | 84 |
| New Mexico | 433 | 365 | 18.7% | 354 | 304 | 79 | 60 | 72 | 68 | 281 | 237 | 28 | 23 | 0 | 0 | 28 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 37 |
| Utah | 698 | 627 | 11.3% | 588 | 553 | 110 | 74 | 0 | 0 | 588 | 553 | 22 | 17 | 0 | 0 | 22 | 17 | 2 | 2 | 0 | 0 | 2 | 2 | 85 | 55 |
| Wyoming | 2 | 1 | 40.2% | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Pacific Contiguous | 10,717 | 8,655 | 23.8% | 6,913 | 5,652 | 3,805 | 3,003 | 165 | 133 | 6,694 | 5,483 | 949 | 683 | 41 | 34 | 908 | 650 | 585 | 496 | 13 | 3 | 572 | 493 | 2,324 | 1,861 |
| California | 10,480 | 8,519 | 23.0% | 6,767 | 5,591 | 3,713 | 2,928 | 163 | 131 | 6,550 | 5,424 | 921 | 658 | 41 | 34 | 880 | 624 | 580 | 491 | 13 | 3 | 568 | 489 | 2,266 | 1,815 |
| Oregon | 199 | 106 | 88.2% | 146 | 61 | 53 | 45 | NM | NM | 144 | 59 | 22 | 20 | 0 | 0 | 22 | 20 | 4 | 4 | 0 | 0 | 4 | 4 | 27 | 21 |
| Washington | 38 | 30 | 29.7% | 0 | 0 | 38 | 30 | 0 | 0 | 0 | 0 | 6 | 5 | 0 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 25 |
| Pacific Noncontiguous | 384 | 350 | 9.6% | 61 | 48 | 323 | 302 | 11 | 14 | 50 | 34 | 124 | 110 | 0 | 0 | 124 | 110 | 1 | 1 | 0 | 0 | 1 | 1 | 198 | 191 |
| Alaska | 1 | 0 | 37.3% | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 383 | 350 | 9.6% | 61 | 48 | 322 | 302 | 11 | 14 | 50 | 34 | 124 | 110 | 0 | 0 | 124 | 110 | 1 | 1 | 0 | 0 | 1 | 1 | 198 | 191 |
| U.S. Total | 26,184 | 19,847 | 31.9% | 17,619 | 13,023 | 8,565 | 6,824 | 1,584 | 903 | 15,841 | 11,964 | 2,947 | 2,345 | 172 | 147 | 2,775 | 2,198 | 863 | 724 | 23 | 8 | 840 | 716 | 4,949 | 3,910 |

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 preliminary. 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.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

**Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, April 2018 and 2017 (Thousand Megawatthours)**

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| 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 | 9 | 0 | -- | 9 | 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 | 9 | 0 | -- | 9 | 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 | 96 | 103 | -7.0% | 0 | 0 | 96 | 103 | 0 | 0 | 0 | 0 |
| Arizona | 68 | 90 | -23.7% | 0 | 0 | 68 | 90 | 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 | 27 | 13 | 105.1% | 0 | 0 | 27 | 13 | 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 | 210 | 207 | 1.2% | 0 | 0 | 210 | 207 | 0 | 0 | 0 | 0 |
| California | 210 | 207 | 1.2% | 0 | 0 | 210 | 207 | 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 | 314 | 310 | 1.2% | 9 | 0 | 306 | 310 | 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 preliminary. 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 1.18.B. Utility Scale Facility Net Generation from Solar Thermal

## by State, by Sector, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)

| | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | Generation at Utility Scale Facilities | | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | | Generation at Utility Scale Facilities | |
| Census Division and State | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| 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 | 21 | 0 | NM | 21 | 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 | 21 | 0 | NM | 21 | 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 | 239 | 256 | -6.9% | 0 | 0 | 239 | 256 | 0 | 0 | 0 | 0 |
| Arizona | 188 | 226 | -16.6% | 0 | 0 | 188 | 226 | 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 | 50 | 30 | 65.6% | 0 | 0 | 50 | 30 | 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 | 631 | 576 | 9.5% | 0 | 0 | 631 | 576 | 0 | 0 | 0 | 0 |
| California | 631 | 576 | 9.5% | 0 | 0 | 631 | 576 | 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 | 891 | 833 | 7.0% | 21 | 0 | 870 | 832 | 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 preliminary. 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 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2008-April 2018 (Thousand Tons)

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 853,634 | 624,235 | 224,568 | 202 | 4,629 |
| 2015 | 739,594 | 539,506 | 195,927 | 163 | 3,999 |
| 2016 | 677,371 | 496,192 | 178,047 | 111 | 3,021 |
| 2017 | 663,479 | 485,100 | 175,500 | 96 | 2,783 |
| Year 2016 | | | | | |
| January | 61,983 | 45,395 | 16,319 | 12 | 258 |
| February | 50,516 | 37,538 | 12,717 | 13 | 248 |
| March | 39,864 | 30,983 | 8,616 | 13 | 252 |
| April | 39,065 | 28,614 | 10,238 | 7 | 206 |
| May | 45,032 | 33,712 | 11,064 | 6 | 249 |
| June | 63,186 | 46,191 | 16,721 | 7 | 266 |
| July | 74,132 | 53,946 | 19,894 | 7 | 285 |
| August | 73,798 | 53,681 | 19,827 | 8 | 282 |
| Sept | 62,335 | 44,665 | 17,407 | 8 | 254 |
| October | 54,537 | 39,319 | 14,974 | 8 | 237 |
| November | 48,076 | 35,090 | 12,758 | 10 | 218 |
| December | 64,847 | 47,058 | 17,512 | 12 | 266 |
| Year 2017 | | | | | |
| January | 63,394 | 46,763 | 16,354 | 12 | 265 |
| February | 47,878 | 35,521 | 12,112 | 10 | 235 |
| March | 48,700 | 35,717 | 12,738 | 9 | 235 |
| April | 44,216 | 31,501 | 12,507 | 5 | 202 |
| May | 50,843 | 37,410 | 13,209 | 6 | 219 |
| June | 58,884 | 43,796 | 14,854 | 7 | 226 |
| July | 69,775 | 52,038 | 17,494 | 8 | 234 |
| August | 65,801 | 49,033 | 16,527 | 8 | 233 |
| Sept | 54,702 | 39,435 | 15,035 | 8 | 225 |
| October | 50,129 | 36,279 | 13,610 | 7 | 233 |
| November | 50,864 | 35,840 | 14,788 | 7 | 229 |
| December | 58,292 | 41,767 | 16,270 | 10 | 246 |
| Year 2018 | | | | | |
| January | 64,556 | 47,762 | 16,510 | 12 | 272 |
| February | 45,738 | 33,993 | 11,488 | 8 | 249 |
| March | 44,444 | 32,318 | 11,869 | 7 | 250 |
| April | 40,607 | 30,411 | 9,973 | 6 | 217 |
| Year to Date | | | | | |
| 2016 | 191,428 | 142,530 | 47,890 | 45 | 963 |
| 2017 | 204,188 | 149,503 | 53,712 | 36 | 938 |
| 2018 | 195,346 | 144,484 | 49,840 | 33 | 988 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 690,132 | 503,165 | 183,869 | 102 | 2,996 |
| 2018 | 654,636 | 480,081 | 171,628 | 94 | 2,833 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.1.B. Coal: Consumption for Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Tons)

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 18,107 | 978 | 1,821 | 861 | 14,448 |
| 2015 | 16,632 | 1,032 | 1,980 | 635 | 12,985 |
| 2016 | 16,586 | 2,979 | 1,336 | 572 | 11,700 |
| 2017 | 15,302 | 2,800 | 1,350 | 511 | 10,641 |
| Year 2016 | | | | | |
| January | 1,624 | 288 | 133 | 63 | 1,140 |
| February | 1,503 | 277 | 130 | 62 | 1,034 |
| March | 1,433 | 232 | 117 | 61 | 1,023 |
| April | 1,215 | 204 | 103 | 39 | 870 |
| May | 1,264 | 215 | 90 | 31 | 929 |
| June | 1,353 | 241 | 97 | 39 | 976 |
| July | 1,472 | 278 | 118 | 39 | 1,036 |
| August | 1,434 | 270 | 112 | 42 | 1,010 |
| Sept | 1,257 | 216 | 97 | 41 | 903 |
| October | 1,260 | 224 | 105 | 42 | 889 |
| November | 1,256 | 233 | 99 | 50 | 875 |
| December | 1,515 | 301 | 136 | 63 | 1,015 |
| Year 2017 | | | | | |
| January | 1,510 | 290 | 140 | 55 | 1,025 |
| February | 1,228 | 208 | 124 | 44 | 852 |
| March | 1,357 | 225 | 146 | 49 | 937 |
| April | 1,216 | 212 | 103 | 35 | 866 |
| May | 1,221 | 206 | 101 | 34 | 880 |
| June | 1,208 | 219 | 82 | 39 | 868 |
| July | 1,225 | 264 | 104 | 45 | 813 |
| August | 1,247 | 264 | 110 | 40 | 832 |
| Sept | 1,155 | 216 | 94 | 39 | 805 |
| October | 1,278 | 225 | 101 | 36 | 916 |
| November | 1,320 | 262 | 102 | 42 | 913 |
| December | 1,339 | 209 | 143 | 52 | 935 |
| Year 2018 | | | | | |
| January | 1,432 | 234 | 144 | 57 | 997 |
| February | 1,270 | 212 | 131 | 45 | 883 |
| March | 1,271 | 204 | 105 | 43 | 919 |
| April | 1,132 | 183 | 85 | 39 | 826 |
| Year to Date | | | | | |
| 2016 | 5,775 | 1,001 | 482 | 225 | 4,067 |
| 2017 | 5,310 | 935 | 512 | 183 | 3,680 |
| 2018 | 5,106 | 832 | 464 | 184 | 3,625 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 16,122 | 2,913 | 1,366 | 530 | 11,312 |
| 2018 | 15,097 | 2,697 | 1,302 | 512 | 10,587 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Tons)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 871,741 | 625,212 | 226,389 | 1,063 | 19,076 |
| 2015 | 756,226 | 540,538 | 197,906 | 798 | 16,984 |
| 2016 | 693,958 | 499,172 | 179,383 | 683 | 14,720 |
| 2017 | 678,780 | 487,900 | 176,849 | 607 | 13,424 |
| Year 2016 | | | | | |
| January | 63,607 | 45,683 | 16,452 | 75 | 1,397 |
| February | 52,019 | 37,815 | 12,846 | 75 | 1,282 |
| March | 41,297 | 31,215 | 8,733 | 74 | 1,275 |
| April | 40,280 | 28,818 | 10,341 | 46 | 1,076 |
| May | 46,297 | 33,928 | 11,154 | 37 | 1,178 |
| June | 64,539 | 46,432 | 16,818 | 46 | 1,243 |
| July | 75,604 | 54,224 | 20,012 | 46 | 1,321 |
| August | 75,232 | 53,951 | 19,938 | 49 | 1,292 |
| Sept | 63,592 | 44,881 | 17,504 | 50 | 1,157 |
| October | 55,798 | 39,543 | 15,079 | 50 | 1,126 |
| November | 49,331 | 35,322 | 12,857 | 60 | 1,093 |
| December | 66,362 | 47,359 | 17,648 | 75 | 1,280 |
| Year 2017 | | | | | |
| January | 64,904 | 47,054 | 16,494 | 66 | 1,290 |
| February | 49,106 | 35,729 | 12,235 | 54 | 1,087 |
| March | 50,057 | 35,942 | 12,884 | 58 | 1,172 |
| April | 45,432 | 31,713 | 12,611 | 40 | 1,068 |
| May | 52,064 | 37,616 | 13,310 | 40 | 1,098 |
| June | 60,092 | 44,015 | 14,937 | 46 | 1,094 |
| July | 71,001 | 52,302 | 17,598 | 53 | 1,047 |
| August | 67,048 | 49,297 | 16,637 | 49 | 1,065 |
| Sept | 55,857 | 39,651 | 15,129 | 47 | 1,030 |
| October | 51,406 | 36,504 | 13,711 | 43 | 1,149 |
| November | 52,184 | 36,102 | 14,890 | 50 | 1,142 |
| December | 59,631 | 41,975 | 16,413 | 62 | 1,181 |
| Year 2018 | | | | | |
| January | 65,989 | 47,996 | 16,654 | 69 | 1,270 |
| February | 47,008 | 34,205 | 11,618 | 53 | 1,132 |
| March | 45,715 | 32,522 | 11,973 | 51 | 1,169 |
| April | 41,740 | 30,593 | 10,058 | 45 | 1,043 |
| Year to Date | | | | | |
| 2016 | 197,203 | 143,531 | 48,372 | 270 | 5,030 |
| 2017 | 209,499 | 150,439 | 54,224 | 219 | 4,618 |
| 2018 | 200,452 | 145,316 | 50,304 | 218 | 4,613 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 706,253 | 506,079 | 185,235 | 631 | 14,308 |
| 2018 | 669,733 | 482,778 | 172,930 | 606 | 13,420 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2008-April 2018 (Thousand Barrels)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 31,531 | 19,652 | 10,689 | 451 | 739 |
| 2015 | 28,925 | 18,562 | 9,473 | 249 | 641 |
| 2016 | 22,405 | 16,137 | 5,624 | 108 | 536 |
| 2017 | 21,935 | 15,722 | 5,553 | 193 | 467 |
| Year 2016 | | | | | |
| January | 2,472 | 1,727 | 685 | 12 | 48 |
| February | 2,230 | 1,474 | 698 | 12 | 46 |
| March | 1,495 | 1,096 | 355 | 4 | 40 |
| April | 1,421 | 1,055 | 320 | 8 | 38 |
| May | 1,662 | 1,212 | 386 | 8 | 56 |
| June | 1,693 | 1,275 | 364 | 7 | 48 |
| July | 2,287 | 1,711 | 514 | 11 | 52 |
| August | 2,231 | 1,644 | 537 | 10 | 39 |
| Sept | 1,620 | 1,128 | 441 | 7 | 44 |
| October | 1,629 | 1,156 | 423 | 7 | 43 |
| November | 1,672 | 1,249 | 372 | 11 | 40 |
| December | 1,995 | 1,410 | 530 | 12 | 43 |
| Year 2017 | | | | | |
| January | 1,977 | 1,459 | 453 | 20 | 45 |
| February | 1,569 | 1,157 | 362 | 13 | 38 |
| March | 1,673 | 1,342 | 278 | 16 | 37 |
| April | 1,519 | 1,188 | 285 | 10 | 36 |
| May | 1,752 | 1,306 | 394 | 16 | 37 |
| June | 1,739 | 1,290 | 397 | 14 | 38 |
| July | 1,853 | 1,296 | 505 | 17 | 35 |
| August | 1,723 | 1,275 | 392 | 20 | 37 |
| Sept | 1,723 | 1,253 | 417 | 15 | 38 |
| October | 1,730 | 1,331 | 346 | 14 | 39 |
| November | 1,617 | 1,184 | 379 | 15 | 39 |
| December | 3,058 | 1,642 | 1,346 | 22 | 47 |
| Year 2018 | | | | | |
| January | 8,977 | 4,320 | 4,531 | 58 | NM |
| February | 1,377 | 1,100 | 218 | 15 | 44 |
| March | 1,414 | 1,066 | 294 | 13 | 41 |
| April | 1,518 | 1,128 | 337 | 16 | 36 |
| Year to Date | | | | | |
| 2016 | 7,617 | 5,351 | 2,058 | 36 | 172 |
| 2017 | 6,739 | 5,145 | 1,377 | 59 | 157 |
| 2018 | 13,286 | 7,613 | 5,381 | 102 | 189 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 21,527 | 15,931 | 4,943 | 131 | 521 |
| 2018 | 28,482 | 18,190 | 9,557 | 237 | NM |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Barrels)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 3,099 | 64 | 1,170 | 216 | 1,650 |
| 2015 | 3,142 | 62 | 1,155 | 282 | 1,643 |
| 2016 | 2,277 | 68 | 245 | 245 | 1,719 |
| 2017 | 1,964 | 72 | 238 | 289 | 1,365 |
| Year 2016 | | | | | |
| January | 231 | 12 | 24 | 43 | 153 |
| February | 316 | 17 | 39 | 27 | 233 |
| March | 178 | 3 | 28 | 7 | 140 |
| April | 174 | 3 | 16 | 17 | 138 |
| May | 198 | 3 | 18 | 14 | 163 |
| June | 181 | 6 | 13 | 14 | 149 |
| July | 185 | 2 | 12 | 28 | 142 |
| August | 153 | 3 | 15 | 18 | 117 |
| Sept | 143 | 3 | 14 | 9 | 117 |
| October | 174 | 3 | 18 | 9 | 144 |
| November | 167 | 4 | 14 | 35 | 113 |
| December | 178 | 9 | 33 | 26 | 110 |
| Year 2017 | | | | | |
| January | 207 | 12 | 39 | 39 | 117 |
| February | 136 | 8 | 19 | 28 | 81 |
| March | 138 | 4 | 10 | 30 | 94 |
| April | 137 | 3 | 11 | 16 | 107 |
| May | 157 | 3 | 14 | 19 | 120 |
| June | 148 | 5 | 15 | 15 | 113 |
| July | 125 | 3 | 14 | 17 | 90 |
| August | 138 | 3 | 12 | 19 | 103 |
| Sept | 120 | 4 | 14 | 15 | 87 |
| October | 145 | 4 | 18 | 17 | 106 |
| November | 177 | 4 | 21 | 23 | 129 |
| December | 336 | 18 | 51 | 50 | 216 |
| Year 2018 | | | | | |
| January | 644 | 49 | 120 | 139 | NM |
| February | 148 | 5 | 11 | 29 | 103 |
| March | 162 | 4 | 14 | 25 | 119 |
| April | 140 | 4 | 13 | 22 | 102 |
| Year to Date | | | | | |
| 2016 | 899 | 35 | 107 | 94 | 663 |
| 2017 | 618 | 27 | 79 | 113 | 399 |
| 2018 | 1,094 | 61 | 158 | 215 | 659 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 1,996 | 60 | 217 | 264 | 1,455 |
| 2018 | 2,441 | 107 | 318 | 392 | NM |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Barrels)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 34,630 | 19,716 | 11,859 | 667 | 2,389 |
| 2015 | 32,067 | 18,624 | 10,629 | 531 | 2,283 |
| 2016 | 24,682 | 16,205 | 5,869 | 352 | 2,255 |
| 2017 | 23,899 | 15,794 | 5,791 | 482 | 1,831 |
| Year 2016 | | | | | |
| January | 2,702 | 1,739 | 709 | 55 | 200 |
| February | 2,546 | 1,491 | 737 | 38 | 279 |
| March | 1,673 | 1,099 | 383 | 12 | 180 |
| April | 1,594 | 1,058 | 337 | 24 | 175 |
| May | 1,860 | 1,216 | 403 | 22 | 219 |
| June | 1,875 | 1,281 | 377 | 21 | 197 |
| July | 2,472 | 1,713 | 527 | 38 | 194 |
| August | 2,384 | 1,647 | 552 | 28 | 156 |
| Sept | 1,763 | 1,131 | 455 | 16 | 161 |
| October | 1,803 | 1,159 | 441 | 16 | 187 |
| November | 1,838 | 1,254 | 386 | 46 | 153 |
| December | 2,173 | 1,419 | 563 | 37 | 154 |
| Year 2017 | | | | | |
| January | 2,184 | 1,471 | 492 | 59 | 162 |
| February | 1,705 | 1,164 | 381 | 41 | 119 |
| March | 1,811 | 1,346 | 288 | 46 | 132 |
| April | 1,656 | 1,190 | 296 | 26 | 143 |
| May | 1,910 | 1,309 | 408 | 35 | 157 |
| June | 1,886 | 1,295 | 412 | 29 | 151 |
| July | 1,978 | 1,299 | 519 | 34 | 125 |
| August | 1,861 | 1,279 | 404 | 39 | 140 |
| Sept | 1,843 | 1,257 | 431 | 30 | 126 |
| October | 1,875 | 1,335 | 364 | 31 | 145 |
| November | 1,795 | 1,188 | 400 | 38 | 167 |
| December | 3,395 | 1,660 | 1,398 | 73 | 264 |
| Year 2018 | | | | | |
| January | 9,621 | 4,369 | 4,651 | 197 | NM |
| February | 1,525 | 1,104 | 229 | 44 | 148 |
| March | 1,576 | 1,069 | 309 | 38 | 160 |
| April | 1,658 | 1,132 | 350 | 38 | 138 |
| Year to Date | | | | | |
| 2016 | 8,516 | 5,386 | 2,165 | 129 | 835 |
| 2017 | 7,356 | 5,172 | 1,456 | 172 | 556 |
| 2018 | 14,380 | 7,675 | 5,540 | 318 | 849 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 23,523 | 15,991 | 5,160 | 395 | 1,977 |
| 2018 | 30,923 | 18,297 | 9,875 | 628 | NM |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2008-April 2018 (Thousand Tons)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 4,412 | 3,440 | 599 | 2 | 371 |
| 2015 | 4,044 | 3,120 | 669 | 2 | 253 |
| 2016 | 4,253 | 3,427 | 591 | 2 | 233 |
| 2017 | 3,349 | 2,731 | 415 | 3 | 200 |
| Year 2016 | | | | | |
| January | 342 | 302 | 16 | 0 | 23 |
| February | 330 | 271 | 39 | 0 | 19 |
| March | 362 | 283 | 63 | 0 | 17 |
| April | 382 | 325 | 43 | 0 | 14 |
| May | 370 | 296 | 52 | 0 | 23 |
| June | 380 | 308 | 52 | 0 | 21 |
| July | 400 | 324 | 56 | 0 | 20 |
| August | 419 | 337 | 61 | 0 | 21 |
| Sept | 376 | 311 | 49 | 0 | 16 |
| October | 250 | 171 | 61 | 0 | 18 |
| November | 307 | 239 | 46 | 0 | 21 |
| December | 336 | 260 | 55 | 0 | 20 |
| Year 2017 | | | | | |
| January | 355 | 301 | 40 | 0 | 13 |
| February | 263 | 217 | 32 | 0 | 13 |
| March | 273 | 214 | 40 | 0 | 18 |
| April | 153 | 110 | 29 | 0 | 13 |
| May | 320 | 264 | 38 | 0 | 18 |
| June | 341 | 282 | 40 | 0 | 19 |
| July | 332 | 271 | 39 | 0 | 23 |
| August | 282 | 226 | 38 | 0 | 19 |
| Sept | 262 | 209 | 37 | 0 | 16 |
| October | 221 | 171 | 35 | 0 | 15 |
| November | 267 | 234 | 13 | 0 | 19 |
| December | 280 | 231 | 35 | 0 | 14 |
| Year 2018 | | | | | |
| January | 344 | 296 | 36 | 0 | 11 |
| February | 272 | 234 | 29 | 0 | 9 |
| March | 226 | 198 | 15 | 0 | 13 |
| April | 224 | 193 | 14 | 0 | 16 |
| Year to Date | | | | | |
| 2016 | 1,415 | 1,181 | 160 | 1 | 73 |
| 2017 | 1,043 | 843 | 142 | 1 | 58 |
| 2018 | 1,066 | 921 | 95 | 1 | 49 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 3,881 | 3,089 | 573 | 2 | 218 |
| 2018 | 3,371 | 2,809 | 368 | 3 | 192 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Tons)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 1,283 | 3 | 90 | 16 | 1,174 |
| 2015 | 1,144 | 9 | 109 | 16 | 1,010 |
| 2016 | 1,099 | 6 | 113 | 9 | 971 |
| 2017 | 917 | 11 | 115 | 15 | 776 |
| Year 2016 | | | | | |
| January | 86 | 1 | 11 | 2 | 73 |
| February | 95 | 0 | 10 | 2 | 83 |
| March | 85 | 0 | 11 | 2 | 72 |
| April | 73 | 1 | 7 | 0 | 66 |
| May | 96 | 0 | 7 | 0 | 89 |
| June | 100 | 0 | 9 | 0 | 91 |
| July | 101 | 1 | 9 | 1 | 91 |
| August | 101 | 1 | 10 | 0 | 91 |
| Sept | 75 | 1 | 10 | 0 | 64 |
| October | 92 | 1 | 11 | 0 | 80 |
| November | 99 | 0 | 10 | 0 | 89 |
| December | 95 | 1 | 10 | 2 | 83 |
| Year 2017 | | | | | |
| January | 74 | 0 | 10 | 2 | 62 |
| February | 63 | 0 | 10 | 1 | 51 |
| March | 85 | 1 | 10 | 2 | 72 |
| April | 70 | 0 | 10 | 1 | 59 |
| May | 76 | 1 | 10 | 1 | 65 |
| June | 92 | 1 | 9 | 1 | 81 |
| July | 79 | 1 | 10 | 0 | 68 |
| August | 84 | 2 | 9 | 2 | 71 |
| Sept | 74 | 1 | 9 | 2 | 62 |
| October | 82 | 1 | 9 | 1 | 70 |
| November | 71 | 1 | 9 | 1 | 60 |
| December | 68 | 1 | 10 | 2 | 55 |
| Year 2018 | | | | | |
| January | 69 | 1 | 9 | 2 | 56 |
| February | 61 | 1 | 8 | 2 | 51 |
| March | 57 | 1 | 9 | 1 | 46 |
| April | 72 | 1 | 10 | 1 | 61 |
| Year to Date | | | | | |
| 2016 | 340 | 2 | 39 | 6 | 293 |
| 2017 | 291 | 1 | 39 | 5 | 244 |
| 2018 | 260 | 5 | 36 | 5 | 214 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 1,049 | 5 | 114 | 8 | 922 |
| 2018 | 886 | 14 | 112 | 15 | 745 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Tons)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 5,695 | 3,443 | 689 | 18 | 1,545 |
| 2015 | 5,188 | 3,128 | 779 | 18 | 1,263 |
| 2016 | 5,352 | 3,433 | 705 | 10 | 1,204 |
| 2017 | 4,266 | 2,742 | 530 | 17 | 976 |
| Year 2016 | | | | | |
| January | 427 | 302 | 27 | 3 | 96 |
| February | 425 | 272 | 49 | 2 | 102 |
| March | 447 | 283 | 74 | 2 | 89 |
| April | 455 | 326 | 50 | 0 | 80 |
| May | 466 | 296 | 58 | 0 | 112 |
| June | 480 | 308 | 60 | 0 | 111 |
| July | 502 | 325 | 65 | 1 | 111 |
| August | 520 | 337 | 71 | 0 | 112 |
| Sept | 451 | 311 | 59 | 0 | 80 |
| October | 342 | 172 | 72 | 0 | 99 |
| November | 406 | 240 | 56 | 0 | 110 |
| December | 431 | 261 | 65 | 2 | 103 |
| Year 2017 | | | | | |
| January | 428 | 301 | 50 | 2 | 75 |
| February | 325 | 218 | 42 | 1 | 65 |
| March | 358 | 215 | 50 | 2 | 90 |
| April | 222 | 110 | 39 | 1 | 72 |
| May | 396 | 265 | 48 | 1 | 83 |
| June | 433 | 283 | 49 | 1 | 100 |
| July | 412 | 272 | 49 | 0 | 91 |
| August | 367 | 228 | 47 | 2 | 89 |
| Sept | 337 | 211 | 46 | 2 | 78 |
| October | 302 | 172 | 44 | 2 | 85 |
| November | 338 | 235 | 22 | 1 | 79 |
| December | 348 | 233 | 44 | 2 | 69 |
| Year 2018 | | | | | |
| January | 412 | 297 | 46 | 2 | 67 |
| February | 334 | 235 | 37 | 2 | 60 |
| March | 284 | 199 | 24 | 2 | 59 |
| April | 296 | 195 | 24 | 1 | 76 |
| Year to Date | | | | | |
| 2016 | 1,755 | 1,183 | 199 | 7 | 366 |
| 2017 | 1,334 | 844 | 181 | 6 | 302 |
| 2018 | 1,325 | 926 | 130 | 6 | 263 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 4,931 | 3,094 | 687 | 10 | 1,140 |
| 2018 | 4,257 | 2,823 | 480 | 17 | 937 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2008-April 2018 (Million Cubic Feet)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 8,544,387 | 3,895,008 | 3,954,032 | 71,957 | 623,390 |
| 2015 | 10,016,576 | 4,745,255 | 4,576,683 | 70,092 | 624,545 |
| 2016 | 10,170,110 | 5,018,894 | 4,571,375 | 46,304 | 533,537 |
| 2017 | 9,440,777 | 4,752,790 | 4,118,433 | 44,765 | 524,788 |
| Year 2016 | | | | | |
| January | 786,040 | 390,246 | 347,970 | 3,499 | 44,325 |
| February | 702,082 | 352,877 | 304,311 | 3,344 | 41,550 |
| March | 758,344 | 377,953 | 333,147 | 3,493 | 43,751 |
| April | 734,600 | 362,063 | 327,542 | 3,278 | 41,717 |
| May | 819,345 | 407,178 | 365,297 | 3,620 | 43,251 |
| June | 985,722 | 497,616 | 439,024 | 4,109 | 44,973 |
| July | 1,157,589 | 569,028 | 535,036 | 5,188 | 48,337 |
| August | 1,168,337 | 564,916 | 549,161 | 5,384 | 48,875 |
| Sept | 932,041 | 451,574 | 431,159 | 4,223 | 45,086 |
| October | 760,610 | 368,087 | 345,831 | 3,675 | 43,017 |
| November | 679,004 | 333,973 | 298,069 | 2,944 | 44,018 |
| December | 686,396 | 343,384 | 294,829 | 3,547 | 44,637 |
| Year 2017 | | | | | |
| January | 663,708 | 329,690 | 283,243 | 3,857 | 46,918 |
| February | 573,451 | 283,558 | 245,447 | 3,445 | 41,001 |
| March | 693,489 | 349,742 | 296,454 | 3,831 | 43,463 |
| April | 640,489 | 326,706 | 268,102 | 3,158 | 42,523 |
| May | 723,289 | 374,999 | 302,060 | 3,443 | 42,787 |
| June | 870,696 | 438,191 | 384,666 | 3,771 | 44,068 |
| July | 1,091,770 | 554,104 | 486,788 | 4,170 | 46,707 |
| August | 1,049,281 | 530,700 | 469,818 | 4,173 | 44,590 |
| Sept | 876,462 | 440,975 | 390,611 | 3,897 | 40,978 |
| October | 793,981 | 397,778 | 351,044 | 3,715 | 41,445 |
| November | 679,061 | 337,407 | 294,822 | 3,524 | 43,308 |
| December | 785,101 | 388,941 | 345,378 | 3,781 | 47,000 |
| Year 2018 | | | | | |
| January | 811,671 | 420,768 | 340,304 | 3,811 | 46,789 |
| February | 683,640 | 340,742 | 297,957 | 3,553 | 41,388 |
| March | 755,250 | 374,127 | 335,455 | 3,732 | 41,937 |
| April | 724,622 | 362,210 | 315,874 | 3,508 | 43,029 |
| Year to Date | | | | | |
| 2016 | 2,981,067 | 1,483,139 | 1,312,969 | 13,614 | 171,344 |
| 2017 | 2,571,137 | 1,289,696 | 1,093,246 | 14,290 | 173,906 |
| 2018 | 2,975,183 | 1,497,847 | 1,289,591 | 14,603 | 173,142 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 9,760,181 | 4,825,451 | 4,351,651 | 46,980 | 536,099 |
| 2018 | 9,844,823 | 4,960,941 | 4,314,778 | 45,079 | 524,025 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2008-April 2018 (Million Cubic Feet)

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 865,146 | 4,926 | 292,016 | 46,635 | 521,569 |
| 2015 | 935,098 | 8,060 | 283,372 | 46,287 | 597,379 |
| 2016 | 1,151,866 | 38,096 | 356,905 | 80,943 | 675,922 |
| 2017 | 1,156,214 | 42,382 | 336,461 | 75,988 | 701,383 |
| Year 2016 | | | | | |
| January | 102,014 | 3,434 | 32,304 | 7,160 | 59,117 |
| February | 92,405 | 3,264 | 29,348 | 6,354 | 53,439 |
| March | 95,161 | 3,002 | 30,664 | 6,298 | 55,197 |
| April | 88,634 | 2,286 | 27,002 | 6,104 | 53,241 |
| May | 92,471 | 2,888 | 29,069 | 6,096 | 54,418 |
| June | 96,618 | 3,649 | 30,019 | 6,907 | 56,043 |
| July | 102,867 | 3,805 | 32,099 | 8,142 | 58,821 |
| August | 105,025 | 3,723 | 33,436 | 8,377 | 59,489 |
| Sept | 95,330 | 2,973 | 29,581 | 6,850 | 55,926 |
| October | 92,360 | 2,740 | 27,138 | 6,125 | 56,357 |
| November | 90,321 | 2,812 | 27,191 | 5,773 | 54,544 |
| December | 98,660 | 3,520 | 29,054 | 6,758 | 59,328 |
| Year 2017 | | | | | |
| January | 101,763 | 3,768 | 30,660 | 7,653 | 59,682 |
| February | 91,904 | 3,190 | 26,545 | 6,508 | 55,660 |
| March | 98,721 | 3,441 | 29,333 | 6,528 | 59,418 |
| April | 90,079 | 3,049 | 26,033 | 5,446 | 55,552 |
| May | 90,682 | 2,960 | 26,132 | 5,562 | 56,028 |
| June | 93,506 | 3,422 | 27,809 | 6,089 | 56,187 |
| July | 100,187 | 4,092 | 29,292 | 6,547 | 60,257 |
| August | 97,901 | 3,982 | 29,182 | 6,392 | 58,346 |
| Sept | 93,871 | 3,664 | 26,818 | 5,998 | 57,391 |
| October | 95,459 | 3,602 | 27,375 | 6,139 | 58,343 |
| November | 95,225 | 3,299 | 27,285 | 6,155 | 58,485 |
| December | 106,914 | 3,913 | 29,997 | 6,971 | 66,034 |
| Year 2018 | | | | | |
| January | 107,009 | 3,626 | 30,197 | 7,559 | 65,626 |
| February | 95,990 | 3,327 | 28,006 | 6,727 | 57,930 |
| March | 101,580 | 3,407 | 29,538 | 6,587 | 62,047 |
| April | 95,206 | 3,041 | 26,992 | 6,163 | 59,010 |
| Year to Date | | | | | |
| 2016 | 378,213 | 11,985 | 119,318 | 25,915 | 220,995 |
| 2017 | 382,468 | 13,448 | 112,571 | 26,135 | 230,313 |
| 2018 | 399,785 | 13,402 | 114,733 | 27,036 | 244,613 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 1,156,120 | 39,560 | 350,158 | 81,162 | 685,240 |
| 2018 | 1,173,531 | 42,336 | 338,623 | 76,889 | 715,683 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-April 2018 (Million Cubic Feet)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 9,409,532 | 3,899,934 | 4,246,048 | 118,591 | 1,144,959 |
| 2015 | 10,951,674 | 4,753,315 | 4,860,055 | 116,380 | 1,221,924 |
| 2016 | 11,321,975 | 5,056,990 | 4,928,280 | 127,246 | 1,209,459 |
| 2017 | 10,596,991 | 4,795,172 | 4,454,894 | 120,753 | 1,226,171 |
| Year 2016 | | | | | |
| January | 888,054 | 393,680 | 380,273 | 10,658 | 103,442 |
| February | 794,487 | 356,141 | 333,659 | 9,697 | 94,990 |
| March | 853,505 | 380,955 | 363,811 | 9,791 | 98,949 |
| April | 823,234 | 364,349 | 354,544 | 9,383 | 94,958 |
| May | 911,816 | 410,066 | 394,365 | 9,716 | 97,669 |
| June | 1,082,340 | 501,265 | 469,043 | 11,016 | 101,016 |
| July | 1,260,455 | 572,833 | 567,135 | 13,330 | 107,158 |
| August | 1,273,362 | 568,640 | 582,596 | 13,761 | 108,365 |
| Sept | 1,027,371 | 454,547 | 460,740 | 11,073 | 101,012 |
| October | 852,970 | 370,827 | 372,969 | 9,800 | 99,374 |
| November | 769,325 | 336,785 | 325,260 | 8,716 | 98,563 |
| December | 785,056 | 346,904 | 323,883 | 10,305 | 103,965 |
| Year 2017 | | | | | |
| January | 765,471 | 333,459 | 313,903 | 11,509 | 106,600 |
| February | 665,355 | 286,748 | 271,992 | 9,953 | 96,662 |
| March | 792,211 | 353,183 | 325,787 | 10,359 | 102,882 |
| April | 730,568 | 329,755 | 294,135 | 8,603 | 98,075 |
| May | 813,971 | 377,959 | 328,192 | 9,005 | 98,815 |
| June | 964,202 | 441,612 | 412,475 | 9,860 | 100,255 |
| July | 1,191,957 | 558,196 | 516,079 | 10,718 | 106,964 |
| August | 1,147,182 | 534,682 | 499,000 | 10,564 | 102,936 |
| Sept | 970,332 | 444,639 | 417,429 | 9,895 | 98,369 |
| October | 889,440 | 401,379 | 378,419 | 9,854 | 99,788 |
| November | 774,286 | 340,707 | 322,107 | 9,680 | 101,792 |
| December | 892,015 | 392,854 | 375,375 | 10,752 | 113,034 |
| Year 2018 | | | | | |
| January | 918,680 | 424,394 | 370,502 | 11,369 | 112,415 |
| February | 779,630 | 344,070 | 325,963 | 10,280 | 99,318 |
| March | 856,830 | 377,534 | 364,993 | 10,319 | 103,983 |
| April | 819,828 | 365,251 | 342,866 | 9,671 | 102,039 |
| Year to Date | | | | | |
| 2016 | 3,359,280 | 1,495,124 | 1,432,287 | 39,529 | 392,339 |
| 2017 | 2,953,605 | 1,303,144 | 1,205,817 | 40,425 | 404,219 |
| 2018 | 3,374,968 | 1,511,249 | 1,404,324 | 41,639 | 417,755 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 10,916,301 | 4,865,010 | 4,701,809 | 128,142 | 1,221,339 |
| 2018 | 11,018,354 | 5,003,277 | 4,653,401 | 121,968 | 1,239,708 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2008-April 2018 (Million Cubic Feet)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 285,982 | 25,819 | 228,447 | 27,038 | 4,678 |
| 2015 | 282,530 | 25,257 | 227,381 | 25,250 | 4,642 |
| 2016 | 273,557 | 24,280 | 224,993 | 20,445 | 3,839 |
| 2017 | 267,266 | 25,169 | 219,253 | 18,957 | 3,888 |
| Year 2016 | | | | | |
| January | 22,612 | 2,036 | 18,360 | 1,865 | 351 |
| February | 21,859 | 2,088 | 17,744 | 1,705 | 323 |
| March | 23,337 | 2,187 | 19,021 | 1,786 | 343 |
| April | 22,556 | 2,080 | 18,805 | 1,340 | 331 |
| May | 23,744 | 2,120 | 19,554 | 1,717 | 354 |
| June | 22,668 | 1,896 | 18,683 | 1,768 | 320 |
| July | 23,052 | 1,950 | 19,047 | 1,734 | 321 |
| August | 23,038 | 2,011 | 18,978 | 1,726 | 324 |
| Sept | 21,757 | 2,010 | 17,792 | 1,678 | 278 |
| October | 20,377 | 1,922 | 16,583 | 1,610 | 263 |
| November | 24,047 | 1,941 | 20,036 | 1,762 | 307 |
| December | 24,510 | 2,041 | 20,392 | 1,753 | 324 |
| Year 2017 | | | | | |
| January | 23,634 | 2,207 | 19,369 | 1,687 | 371 |
| February | 21,208 | 2,062 | 17,332 | 1,463 | 351 |
| March | 23,157 | 2,249 | 18,842 | 1,672 | 394 |
| April | 21,387 | 2,091 | 17,433 | 1,516 | 348 |
| May | 21,919 | 2,234 | 17,939 | 1,460 | 286 |
| June | 21,978 | 1,939 | 18,174 | 1,547 | 318 |
| July | 22,785 | 1,979 | 18,962 | 1,583 | 261 |
| August | 22,973 | 2,081 | 18,999 | 1,598 | 296 |
| Sept | 21,810 | 1,990 | 17,980 | 1,560 | 280 |
| October | 21,579 | 2,019 | 17,839 | 1,410 | 311 |
| November | 21,839 | 2,108 | 17,726 | 1,671 | 333 |
| December | 22,997 | 2,209 | 18,658 | 1,791 | 339 |
| Year 2018 | | | | | |
| January | 23,115 | 2,263 | 18,857 | 1,672 | 324 |
| February | 21,740 | 2,089 | 17,786 | 1,536 | 329 |
| March | 23,194 | 2,250 | 18,874 | 1,723 | 348 |
| April | 22,126 | 2,055 | 18,108 | 1,629 | 334 |
| Year to Date | | | | | |
| 2016 | 90,364 | 8,391 | 73,929 | 6,696 | 1,348 |
| 2017 | 89,386 | 8,608 | 72,977 | 6,338 | 1,464 |
| 2018 | 90,175 | 8,657 | 73,625 | 6,559 | 1,334 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 272,579 | 24,497 | 224,041 | 20,086 | 3,955 |
| 2018 | 268,056 | 25,218 | 219,901 | 19,179 | 3,758 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2008-April 2018 (Million Cubic Feet)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 1,710 | 176 | 525 | 674 | 335 |
| 2015 | 1,522 | 2 | 644 | 515 | 362 |
| 2016 | 4,163 | 3 | 2,339 | 1,034 | 788 |
| 2017 | 4,870 | 6 | 2,836 | 1,099 | 928 |
| Year 2016 | | | | | |
| January | 352 | 0 | 202 | 84 | 66 |
| February | 340 | 0 | 189 | 86 | 65 |
| March | 358 | 0 | 196 | 86 | 75 |
| April | 355 | 0 | 201 | 88 | 66 |
| May | 356 | 0 | 194 | 90 | 72 |
| June | 344 | 0 | 193 | 85 | 66 |
| July | 335 | 0 | 181 | 87 | 66 |
| August | 332 | 0 | 181 | 82 | 68 |
| Sept | 327 | 0 | 187 | 81 | 59 |
| October | 301 | 0 | 157 | 87 | 56 |
| November | 378 | 0 | 227 | 86 | 66 |
| December | 387 | 0 | 230 | 91 | 65 |
| Year 2017 | | | | | |
| January | 461 | 0 | 292 | 94 | 75 |
| February | 437 | 0 | 274 | 92 | 70 |
| March | 482 | 1 | 313 | 92 | 76 |
| April | 409 | 0 | 222 | 107 | 80 |
| May | 292 | 0 | 133 | 85 | 73 |
| June | 378 | 1 | 190 | 89 | 98 |
| July | 365 | 1 | 209 | 85 | 71 |
| August | 409 | 1 | 214 | 98 | 96 |
| Sept | 360 | 1 | 179 | 98 | 82 |
| October | 396 | 1 | 249 | 93 | 54 |
| November | 428 | 0 | 278 | 85 | 65 |
| December | 452 | 0 | 282 | 81 | 89 |
| Year 2018 | | | | | |
| January | 465 | 1 | 330 | 65 | 69 |
| February | 412 | 0 | 285 | 58 | 69 |
| March | 474 | 0 | 311 | 84 | 78 |
| April | 432 | 1 | 259 | 85 | 88 |
| Year to Date | | | | | |
| 2016 | 1,404 | 1 | 788 | 344 | 271 |
| 2017 | 1,790 | 2 | 1,102 | 386 | 301 |
| 2018 | 1,784 | 2 | 1,184 | 292 | 305 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 4,549 | 4 | 2,653 | 1,075 | 817 |
| 2018 | 4,864 | 6 | 2,919 | 1,006 | 933 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-April 2018 (Million Cubic Feet)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 287,692 | 25,995 | 228,971 | 27,713 | 5,013 |
| 2015 | 284,052 | 25,259 | 228,024 | 25,765 | 5,004 |
| 2016 | 277,720 | 24,283 | 227,332 | 21,479 | 4,626 |
| 2017 | 272,136 | 25,175 | 222,089 | 20,056 | 4,816 |
| Year 2016 | | | | | |
| January | 22,964 | 2,036 | 18,562 | 1,949 | 417 |
| February | 22,200 | 2,088 | 17,933 | 1,791 | 388 |
| March | 23,694 | 2,187 | 19,217 | 1,873 | 417 |
| April | 22,911 | 2,081 | 19,005 | 1,428 | 397 |
| May | 24,100 | 2,120 | 19,748 | 1,807 | 425 |
| June | 23,012 | 1,896 | 18,876 | 1,853 | 386 |
| July | 23,387 | 1,950 | 19,229 | 1,822 | 386 |
| August | 23,370 | 2,011 | 19,159 | 1,808 | 392 |
| Sept | 22,084 | 2,010 | 17,978 | 1,759 | 337 |
| October | 20,678 | 1,922 | 16,740 | 1,697 | 319 |
| November | 24,425 | 1,941 | 20,263 | 1,848 | 373 |
| December | 24,897 | 2,042 | 20,622 | 1,845 | 388 |
| Year 2017 | | | | | |
| January | 24,095 | 2,207 | 19,662 | 1,781 | 445 |
| February | 21,645 | 2,062 | 17,607 | 1,555 | 422 |
| March | 23,639 | 2,250 | 19,155 | 1,764 | 470 |
| April | 21,796 | 2,091 | 17,655 | 1,623 | 428 |
| May | 22,211 | 2,235 | 18,072 | 1,546 | 359 |
| June | 22,356 | 1,940 | 18,364 | 1,636 | 415 |
| July | 23,150 | 1,980 | 19,172 | 1,667 | 332 |
| August | 23,382 | 2,082 | 19,213 | 1,696 | 392 |
| Sept | 22,170 | 1,991 | 18,159 | 1,658 | 362 |
| October | 21,975 | 2,020 | 18,088 | 1,503 | 365 |
| November | 22,267 | 2,109 | 18,004 | 1,756 | 398 |
| December | 23,449 | 2,209 | 18,940 | 1,872 | 428 |
| Year 2018 | | | | | |
| January | 23,580 | 2,264 | 19,187 | 1,737 | 393 |
| February | 22,153 | 2,090 | 18,071 | 1,594 | 399 |
| March | 23,668 | 2,250 | 19,185 | 1,807 | 426 |
| April | 22,558 | 2,056 | 18,366 | 1,714 | 422 |
| Year to Date | | | | | |
| 2016 | 91,768 | 8,392 | 74,717 | 7,040 | 1,619 |
| 2017 | 91,176 | 8,610 | 74,078 | 6,723 | 1,764 |
| 2018 | 91,959 | 8,659 | 74,809 | 6,852 | 1,639 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 277,127 | 24,501 | 226,693 | 21,162 | 4,771 |
| 2018 | 272,920 | 25,224 | 222,820 | 20,185 | 4,691 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2008-April 2018 (Thousand Tons)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 16,706 | 444 | 13,809 | 2,447 | 6 |
| 2015 | 16,631 | 452 | 13,797 | 2,375 | 8 |
| 2016 | 16,994 | 464 | 13,953 | 2,566 | 11 |
| 2017 | 16,081 | 422 | 13,203 | 2,448 | 8 |
| Year 2016 | | | | | |
| January | 1,398 | 34 | 1,161 | 202 | 1 |
| February | 1,283 | 27 | 1,081 | 174 | 1 |
| March | 1,344 | 41 | 1,091 | 211 | 1 |
| April | 1,413 | 40 | 1,153 | 219 | 1 |
| May | 1,463 | 44 | 1,205 | 214 | 1 |
| June | 1,468 | 40 | 1,202 | 225 | 1 |
| July | 1,486 | 37 | 1,212 | 236 | 1 |
| August | 1,509 | 42 | 1,233 | 233 | 1 |
| Sept | 1,397 | 43 | 1,142 | 210 | 1 |
| October | 1,378 | 37 | 1,127 | 213 | 1 |
| November | 1,379 | 39 | 1,127 | 212 | 1 |
| December | 1,476 | 38 | 1,220 | 218 | 0 |
| Year 2017 | | | | | |
| January | 1,412 | 35 | 1,179 | 198 | 0 |
| February | 1,223 | 19 | 1,020 | 185 | 0 |
| March | 1,308 | 36 | 1,075 | 197 | 0 |
| April | 1,270 | 35 | 1,033 | 201 | 0 |
| May | 1,386 | 36 | 1,130 | 219 | 1 |
| June | 1,399 | 38 | 1,160 | 199 | 1 |
| July | 1,416 | 41 | 1,156 | 218 | 1 |
| August | 1,428 | 47 | 1,166 | 215 | 1 |
| Sept | 1,299 | 41 | 1,057 | 200 | 1 |
| October | 1,296 | 33 | 1,051 | 210 | 1 |
| November | 1,289 | 30 | 1,059 | 200 | 1 |
| December | 1,356 | 32 | 1,117 | 206 | 1 |
| Year 2018 | | | | | |
| January | 1,350 | 28 | 1,132 | 190 | 0 |
| February | 1,278 | 26 | 1,076 | 175 | 1 |
| March | 1,377 | 40 | 1,138 | 198 | 1 |
| April | 1,342 | 38 | 1,109 | 194 | 1 |
| Year to Date | | | | | |
| 2016 | 5,437 | 142 | 4,486 | 806 | 3 |
| 2017 | 5,213 | 124 | 4,308 | 781 | 0 |
| 2018 | 5,347 | 131 | 4,455 | 757 | 3 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 16,770 | 446 | 13,774 | 2,542 | 8 |
| 2018 | 16,215 | 429 | 13,351 | 2,424 | 11 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Tons)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 1,955 | 0 | 650 | 1,104 | 200 |
| 2015 | 1,986 | 0 | 655 | 1,127 | 203 |
| 2016 | 2,232 | 0 | 885 | 1,134 | 213 |
| 2017 | 1,984 | 0 | 814 | 962 | 208 |
| Year 2016 | | | | | |
| January | 191 | 0 | 80 | 92 | 18 |
| February | 189 | 0 | 87 | 88 | 14 |
| March | 219 | 0 | 96 | 104 | 19 |
| April | 181 | 0 | 65 | 98 | 18 |
| May | 182 | 0 | 70 | 96 | 17 |
| June | 172 | 0 | 73 | 81 | 18 |
| July | 186 | 0 | 74 | 96 | 16 |
| August | 191 | 0 | 71 | 96 | 23 |
| Sept | 176 | 0 | 64 | 95 | 18 |
| October | 179 | 0 | 65 | 95 | 19 |
| November | 180 | 0 | 68 | 94 | 17 |
| December | 185 | 0 | 71 | 98 | 16 |
| Year 2017 | | | | | |
| January | 191 | 0 | 72 | 99 | 20 |
| February | 160 | 0 | 64 | 84 | 12 |
| March | 176 | 0 | 75 | 82 | 19 |
| April | 161 | 0 | 69 | 74 | 18 |
| May | 171 | 0 | 69 | 84 | 18 |
| June | 172 | 0 | 68 | 88 | 16 |
| July | 173 | 0 | 72 | 84 | 17 |
| August | 183 | 0 | 77 | 84 | 22 |
| Sept | 143 | 0 | 63 | 63 | 17 |
| October | 143 | 0 | 59 | 66 | 18 |
| November | 155 | 0 | 64 | 76 | 15 |
| December | 157 | 0 | 63 | 77 | 17 |
| Year 2018 | | | | | |
| January | 170 | 0 | 64 | 90 | 17 |
| February | 151 | 0 | 60 | 80 | 12 |
| March | 155 | 0 | 64 | 79 | 12 |
| April | 147 | 0 | 54 | 77 | 16 |
| Year to Date | | | | | |
| 2016 | 781 | 0 | 329 | 383 | 69 |
| 2017 | 688 | 0 | 279 | 339 | 69 |
| 2018 | 624 | 0 | 242 | 325 | 57 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 2,139 | 0 | 836 | 1,090 | 213 |
| 2018 | 1,920 | 0 | 776 | 948 | 196 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-April 2018 (Thousand Tons)

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 18,661 | 444 | 14,459 | 3,551 | 206 |
| 2015 | 18,617 | 452 | 14,452 | 3,502 | 211 |
| 2016 | 19,226 | 464 | 14,838 | 3,700 | 224 |
| 2017 | 18,065 | 422 | 14,017 | 3,410 | 216 |
| Year 2016 | | | | | |
| January | 1,589 | 34 | 1,241 | 295 | 19 |
| February | 1,472 | 27 | 1,167 | 262 | 15 |
| March | 1,563 | 41 | 1,188 | 315 | 19 |
| April | 1,594 | 40 | 1,218 | 317 | 18 |
| May | 1,646 | 44 | 1,274 | 310 | 18 |
| June | 1,640 | 40 | 1,275 | 305 | 19 |
| July | 1,673 | 37 | 1,286 | 332 | 17 |
| August | 1,700 | 42 | 1,304 | 330 | 25 |
| Sept | 1,573 | 43 | 1,206 | 305 | 19 |
| October | 1,557 | 37 | 1,192 | 308 | 20 |
| November | 1,559 | 39 | 1,195 | 306 | 18 |
| December | 1,661 | 38 | 1,291 | 316 | 16 |
| Year 2017 | | | | | |
| January | 1,604 | 35 | 1,251 | 298 | 20 |
| February | 1,383 | 19 | 1,084 | 269 | 12 |
| March | 1,483 | 36 | 1,150 | 279 | 19 |
| April | 1,431 | 35 | 1,102 | 276 | 18 |
| May | 1,556 | 36 | 1,198 | 303 | 19 |
| June | 1,570 | 38 | 1,228 | 287 | 17 |
| July | 1,589 | 41 | 1,228 | 302 | 18 |
| August | 1,612 | 47 | 1,243 | 299 | 23 |
| Sept | 1,441 | 41 | 1,120 | 262 | 18 |
| October | 1,439 | 33 | 1,110 | 276 | 19 |
| November | 1,444 | 30 | 1,123 | 276 | 15 |
| December | 1,513 | 32 | 1,180 | 283 | 18 |
| Year 2018 | | | | | |
| January | 1,521 | 28 | 1,196 | 279 | 17 |
| February | 1,429 | 26 | 1,136 | 255 | 13 |
| March | 1,532 | 40 | 1,202 | 277 | 13 |
| April | 1,489 | 38 | 1,163 | 271 | 17 |
| Year to Date | | | | | |
| 2016 | 6,218 | 142 | 4,815 | 1,189 | 72 |
| 2017 | 5,901 | 124 | 4,587 | 1,120 | 70 |
| 2018 | 5,970 | 131 | 4,697 | 1,082 | 60 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 18,909 | 446 | 14,610 | 3,632 | 221 |
| 2018 | 18,134 | 429 | 14,127 | 3,372 | 207 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2008-April 2018 (Billion Btus)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 431,285 | 45,643 | 174,513 | 961 | 210,167 |
| 2015 | 406,650 | 43,919 | 171,387 | 504 | 190,840 |
| 2016 | 359,983 | 41,036 | 149,516 | 473 | 168,959 |
| 2017 | 380,237 | 43,952 | 165,861 | 460 | 169,964 |
| Year 2016 | | | | | |
| January | 31,835 | 4,082 | 13,250 | 40 | 14,463 |
| February | 30,721 | 3,797 | 13,249 | 41 | 13,634 |
| March | 30,380 | 3,388 | 13,073 | 23 | 13,897 |
| April | 25,323 | 2,547 | 10,177 | 31 | 12,569 |
| May | 26,827 | 2,497 | 10,522 | 14 | 13,794 |
| June | 29,961 | 3,835 | 11,762 | 59 | 14,305 |
| July | 32,167 | 4,067 | 13,230 | 51 | 14,818 |
| August | 33,526 | 4,113 | 14,559 | 72 | 14,782 |
| Sept | 30,502 | 3,489 | 13,145 | 51 | 13,817 |
| October | 27,598 | 2,574 | 11,139 | 29 | 13,857 |
| November | 29,176 | 2,597 | 12,211 | 20 | 14,349 |
| December | 31,967 | 4,051 | 13,200 | 42 | 14,674 |
| Year 2017 | | | | | |
| January | 31,706 | 3,909 | 13,533 | 56 | 14,208 |
| February | 29,797 | 3,477 | 12,653 | 50 | 13,617 |
| March | 32,848 | 4,094 | 14,372 | 26 | 14,356 |
| April | 29,061 | 3,047 | 12,331 | 34 | 13,650 |
| May | 30,151 | 3,584 | 12,937 | 43 | 13,587 |
| June | 31,698 | 3,694 | 13,829 | 38 | 14,138 |
| July | 34,231 | 3,839 | 15,149 | 41 | 15,202 |
| August | 34,458 | 3,818 | 15,424 | 41 | 15,175 |
| Sept | 29,493 | 3,091 | 13,170 | 15 | 13,216 |
| October | 32,025 | 3,893 | 14,392 | 33 | 13,707 |
| November | 31,331 | 3,512 | 13,877 | 41 | 13,901 |
| December | 33,438 | 3,995 | 14,193 | 43 | 15,207 |
| Year 2018 | | | | | |
| January | 33,483 | 4,263 | 14,402 | 63 | 14,755 |
| February | 29,907 | 3,562 | 12,743 | 42 | 13,560 |
| March | 31,280 | 4,481 | 12,293 | 36 | 14,470 |
| April | 27,083 | 2,605 | 10,829 | 16 | 13,633 |
| Year to Date | | | | | |
| 2016 | 118,259 | 13,813 | 49,749 | 134 | 54,563 |
| 2017 | 123,412 | 14,527 | 52,889 | 165 | 55,831 |
| 2018 | 121,754 | 14,912 | 50,267 | 157 | 56,418 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 365,136 | 41,750 | 152,656 | 504 | 170,227 |
| 2018 | 378,579 | 44,337 | 163,239 | 452 | 170,550 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2008-April 2018 (Billion Btus)**

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 946,344 | 8,835 | 22,262 | 3,766 | 911,481 |
| 2015 | 943,962 | 9,351 | 19,200 | 3,714 | 911,697 |
| 2016 | 969,841 | 10,950 | 22,905 | 4,520 | 931,465 |
| 2017 | 978,290 | 11,830 | 25,325 | 4,522 | 936,612 |
| Year 2016 | | | | | |
| January | 84,483 | 1,087 | 2,270 | 460 | 80,665 |
| February | 79,157 | 1,150 | 2,299 | 415 | 75,293 |
| March | 79,225 | 1,084 | 1,926 | 288 | 75,928 |
| April | 74,954 | 732 | 1,780 | 353 | 72,089 |
| May | 78,419 | 949 | 1,753 | 280 | 75,437 |
| June | 79,180 | 707 | 1,832 | 415 | 76,225 |
| July | 80,796 | 943 | 1,826 | 384 | 77,644 |
| August | 81,164 | 931 | 1,794 | 442 | 77,998 |
| Sept | 75,314 | 513 | 1,918 | 395 | 72,488 |
| October | 76,347 | 508 | 1,450 | 347 | 74,041 |
| November | 80,391 | 1,132 | 1,898 | 340 | 77,021 |
| December | 100,410 | 1,214 | 2,159 | 401 | 96,636 |
| Year 2017 | | | | | |
| January | 85,579 | 1,076 | 2,005 | 525 | 81,973 |
| February | 79,087 | 985 | 1,792 | 430 | 75,881 |
| March | 81,473 | 1,068 | 2,428 | 299 | 77,678 |
| April | 77,440 | 879 | 2,063 | 295 | 74,203 |
| May | 78,630 | 887 | 2,209 | 301 | 75,234 |
| June | 80,934 | 1,051 | 2,297 | 322 | 77,264 |
| July | 83,942 | 1,105 | 2,079 | 355 | 80,403 |
| August | 85,888 | 1,140 | 2,000 | 365 | 82,383 |
| Sept | 77,237 | 979 | 1,998 | 233 | 74,027 |
| October | 79,472 | 933 | 2,035 | 402 | 76,102 |
| November | 81,151 | 782 | 2,106 | 473 | 77,790 |
| December | 87,457 | 946 | 2,314 | 524 | 83,673 |
| Year 2018 | | | | | |
| January | 83,887 | 872 | 2,159 | 454 | 80,402 |
| February | 78,816 | 777 | 2,229 | 474 | 75,336 |
| March | 81,307 | 979 | 2,139 | 493 | 77,696 |
| April | 80,524 | 884 | 1,924 | 339 | 77,377 |
| Year to Date | | | | | |
| 2016 | 317,819 | 4,054 | 8,275 | 1,516 | 303,975 |
| 2017 | 323,579 | 4,008 | 8,287 | 1,549 | 309,735 |
| 2018 | 324,534 | 3,512 | 8,451 | 1,760 | 310,812 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 975,601 | 10,905 | 22,918 | 4,553 | 937,225 |
| 2018 | 979,245 | 11,334 | 25,488 | 4,733 | 937,690 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.7.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-April 2018 (Billion Btus)

| | | Electric Power Sector | | | |
|---|---|---|---|---|---|
| Period | Total (all sectors) | Electric Utilities | Independent Power Producers | Commercial Sector | Industrial Sector |
| Annual Totals | | | | | |
| 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 |
| 2014 | 1,377,629 | 54,478 | 196,775 | 4,727 | 1,121,648 |
| 2015 | 1,350,612 | 53,269 | 190,587 | 4,219 | 1,102,537 |
| 2016 | 1,329,824 | 51,986 | 172,421 | 4,993 | 1,100,424 |
| 2017 | 1,358,526 | 55,782 | 191,186 | 4,982 | 1,106,576 |
| Year 2016 | | | | | |
| January | 116,318 | 5,169 | 15,520 | 500 | 95,128 |
| February | 109,878 | 4,947 | 15,548 | 456 | 88,928 |
| March | 109,606 | 4,471 | 14,999 | 311 | 89,825 |
| April | 100,276 | 3,279 | 11,956 | 384 | 84,657 |
| May | 105,246 | 3,446 | 12,275 | 294 | 89,231 |
| June | 109,140 | 4,542 | 13,594 | 474 | 90,530 |
| July | 112,964 | 5,010 | 15,056 | 435 | 92,462 |
| August | 114,690 | 5,044 | 16,353 | 514 | 92,780 |
| Sept | 105,816 | 4,002 | 15,063 | 446 | 86,306 |
| October | 103,946 | 3,083 | 12,589 | 376 | 87,898 |
| November | 109,567 | 3,729 | 14,108 | 360 | 91,370 |
| December | 132,377 | 5,265 | 15,360 | 443 | 111,310 |
| Year 2017 | | | | | |
| January | 117,285 | 4,985 | 15,538 | 581 | 96,181 |
| February | 108,885 | 4,462 | 14,445 | 480 | 89,497 |
| March | 114,321 | 5,162 | 16,800 | 325 | 92,034 |
| April | 106,501 | 3,926 | 14,394 | 328 | 87,853 |
| May | 108,781 | 4,471 | 15,145 | 344 | 88,820 |
| June | 112,633 | 4,745 | 16,127 | 360 | 91,401 |
| July | 118,173 | 4,944 | 17,228 | 395 | 95,606 |
| August | 120,346 | 4,957 | 17,424 | 406 | 97,558 |
| Sept | 106,730 | 4,070 | 15,167 | 249 | 87,244 |
| October | 111,497 | 4,826 | 16,427 | 435 | 89,810 |
| November | 112,482 | 4,294 | 15,983 | 514 | 91,691 |
| December | 120,895 | 4,941 | 16,507 | 566 | 98,880 |
| Year 2018 | | | | | |
| January | 117,370 | 5,135 | 16,561 | 517 | 95,158 |
| February | 108,724 | 4,339 | 14,972 | 516 | 88,896 |
| March | 112,587 | 5,460 | 14,432 | 528 | 92,166 |
| April | 107,607 | 3,488 | 12,753 | 356 | 91,010 |
| Year to Date | | | | | |
| 2016 | 436,078 | 17,866 | 58,023 | 1,650 | 358,538 |
| 2017 | 446,991 | 18,535 | 61,176 | 1,714 | 365,566 |
| 2018 | 446,288 | 18,423 | 58,718 | 1,917 | 367,230 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 1,340,737 | 52,654 | 175,574 | 5,057 | 1,107,452 |
| 2018 | 1,357,824 | 55,671 | 188,728 | 5,185 | 1,108,240 |

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 for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, April 2018 and April 2017 (Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 70 | 28 | 148.0% | 39 | 1 | 31 | 27 | 0 | 0 | NM | NM |
| Connecticut | 30 | 0 | -- | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 |
| Maine | 1 | 1 | 20.0% | 0 | 0 | 1 | 1 | 0 | 0 | NM | NM |
| Massachusetts | 0 | 27 | -100.0% | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 |
| New Hampshire | 39 | 1 | NM | 39 | 1 | 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 | 1,890 | 1,588 | 19.0% | 0 | 0 | 1,882 | 1,575 | 0 | 0 | 7 | 13 |
| New Jersey | 42 | 30 | 40.0% | 0 | 0 | 42 | 30 | 0 | 0 | 0 | 0 |
| New York | 0 | 18 | -100.0% | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 7 |
| Pennsylvania | 1,848 | 1,540 | 20.0% | 0 | 0 | 1,840 | 1,535 | 0 | 0 | 7 | 5 |
| East North Central | 9,689 | 10,516 | -7.9% | 6,395 | 6,283 | 3,236 | 4,178 | 2 | 1 | 56 | 55 |
| Illinois | 2,209 | 2,505 | -12.0% | 125 | 131 | 2,041 | 2,331 | 1 | 1 | 42 | 42 |
| Indiana | 2,877 | 2,273 | 27.0% | 2,735 | 2,227 | 141 | 46 | 1 | 0 | 0 | 0 |
| Michigan | 1,618 | 2,085 | -22.0% | 1,596 | 2,065 | 21 | 19 | 0 | 0 | 1 | NM |
| Ohio | 1,621 | 2,431 | -33.0% | 589 | 649 | 1,032 | 1,782 | 0 | 0 | 0 | NM |
| Wisconsin | 1,364 | 1,223 | 12.0% | 1,350 | 1,211 | 0 | 0 | 0 | 0 | 13 | 11 |
| West North Central | 8,189 | 7,149 | 15.0% | 8,097 | 7,069 | 0 | 0 | 1 | 2 | 91 | 78 |
| Iowa | 1,017 | 952 | 6.8% | 976 | 920 | 0 | 0 | 1 | 1 | 39 | 31 |
| Kansas | 853 | 473 | 80.0% | 853 | 473 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 815 | 669 | 22.0% | 797 | 649 | 0 | 0 | 0 | 0 | 18 | 20 |
| Missouri | 2,558 | 2,816 | -9.2% | 2,558 | 2,816 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 982 | 701 | 40.0% | 952 | 676 | 0 | 0 | 0 | 0 | 31 | 25 |
| North Dakota | 1,898 | 1,485 | 28.0% | 1,895 | 1,483 | 0 | 0 | 0 | 0 | 3 | NM |
| South Dakota | 66 | 53 | 24.0% | 66 | 53 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 5,162 | 6,749 | -24.0% | 4,413 | 6,127 | 724 | 606 | 0 | 1 | 25 | 15 |
| Delaware | 0 | 5 | -100.0% | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 877 | 1,444 | -39.0% | 875 | 1,442 | 0 | 0 | 0 | 0 | 2 | 2 |
| Georgia | 839 | 1,388 | -40.0% | 836 | 1,385 | 0 | 0 | 0 | 0 | 3 | 3 |
| Maryland | 307 | 66 | 365.0% | 0 | 0 | 305 | 65 | 0 | 0 | 2 | 1 |
| North Carolina | 710 | 994 | -29.0% | 704 | 987 | 3 | 3 | 0 | 0 | 2 | 3 |
| South Carolina | 460 | 676 | -32.0% | 460 | 676 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 371 | 368 | 0.7% | 339 | 353 | 16 | 9 | 0 | 0 | 15 | 6 |
| West Virginia | 1,598 | 1,808 | -12.0% | 1,199 | 1,284 | 399 | 524 | 0 | 0 | 0 | 0 |
| East South Central | 3,737 | 4,165 | -10.0% | 3,526 | 3,925 | 197 | 226 | 0 | 0 | 14 | 14 |
| Alabama | 1,102 | 1,131 | -2.6% | 1,100 | 1,130 | 0 | 0 | 0 | 0 | 2 | 1 |
| Kentucky | 1,786 | 1,743 | 2.5% | 1,786 | 1,743 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 228 | 327 | -30.0% | 31 | 101 | 197 | 226 | 0 | 0 | 0 | 0 |
| Tennessee | 621 | 963 | -36.0% | 609 | 951 | 0 | 0 | 0 | 0 | 11 | 13 |
| West South Central | 6,519 | 8,454 | -23.0% | 3,274 | 3,232 | 3,236 | 5,207 | 0 | 0 | 9 | 15 |
| Arkansas | 1,026 | 939 | 9.3% | 932 | 938 | 93 | 0 | 0 | 0 | 1 | 1 |
| Louisiana | 209 | 383 | -45.0% | 184 | 130 | 25 | 253 | 0 | 0 | 0 | 0 |
| Oklahoma | 490 | 507 | -3.4% | 413 | 418 | 68 | 74 | 0 | 0 | 8 | 14 |
| Texas | 4,793 | 6,625 | -28.0% | 1,744 | 1,745 | 3,049 | 4,880 | 0 | 0 | 0 | 0 |
| Mountain | 5,257 | 5,474 | -4.0% | 4,654 | 4,846 | 595 | 620 | 0 | 0 | 9 | 7 |
| Arizona | 1,031 | 965 | 6.8% | 1,031 | 965 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 1,041 | 1,038 | 0.2% | 1,040 | 1,038 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| Montana | 535 | 537 | -0.4% | 0 | 17 | 535 | 521 | 0 | 0 | 0 | 0 |
| Nevada | 10 | 40 | -74.0% | 0 | 0 | 10 | 40 | 0 | 0 | 0 | 0 |
| New Mexico | 440 | 803 | -45.0% | 440 | 803 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 642 | 649 | -1.1% | 625 | 634 | 17 | 15 | 0 | 0 | 0 | 0 |
| Wyoming | 1,558 | 1,441 | 8.1% | 1,518 | 1,390 | 32 | 45 | 0 | 0 | 8 | 7 |
| Pacific Contiguous | 5 | 5 | 14.0% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| California | 5 | 4 | 15.0% | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 1 | 1 | 5.7% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Pacific Noncontiguous | 89 | 89 | -0.7% | NM | NM | 73 | 68 | 3 | NM | 0 | 0 |
| Alaska | NM | 31 | NM | NM | NM | 13 | NM | 3 | NM | 0 | 0 |
| Hawaii | 60 | 58 | 2.8% | 0 | 0 | 60 | 58 | 0 | 0 | 0 | 0 |
| U.S. Total | 40,607 | 44,216 | -8.2% | 30,411 | 31,501 | 9,973 | 12,507 | 6 | 5 | 217 | 202 |

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 preliminary. 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 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through April 2018 and April 2017 (Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 351 | 637 | -45.0% | 199 | 47 | 151 | 589 | 0 | 0 | NM | NM |
| Connecticut | 146 | 54 | 171.0% | 0 | 0 | 146 | 54 | 0 | 0 | 0 | 0 |
| Maine | 6 | 7 | -2.9% | 0 | 0 | 5 | 5 | 0 | 0 | NM | NM |
| Massachusetts | 0 | 530 | -100.0% | 0 | 0 | 0 | 530 | 0 | 0 | 0 | 0 |
| New Hampshire | 199 | 47 | 324.0% | 199 | 47 | 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 | 8,457 | 7,765 | 8.9% | 0 | 0 | 8,425 | 7,704 | 0 | 0 | 32 | 61 |
| New Jersey | 195 | 172 | 13.0% | 0 | 0 | 195 | 172 | 0 | 0 | 0 | 0 |
| New York | 157 | 126 | 25.0% | 0 | 0 | 154 | 91 | 0 | 0 | 4 | 35 |
| Pennsylvania | 8,105 | 7,467 | 8.5% | 0 | 0 | 8,077 | 7,441 | 0 | 0 | 28 | 26 |
| East North Central | 47,274 | 46,549 | 1.6% | 29,007 | 28,041 | 17,992 | 18,262 | 7 | 5 | 267 | 241 |
| Illinois | 11,573 | 11,066 | 4.6% | 695 | 746 | 10,688 | 10,140 | 5 | 4 | 185 | 176 |
| Indiana | 12,648 | 11,177 | 13.0% | 12,008 | 10,806 | 637 | 369 | 3 | 1 | 0 | 0 |
| Michigan | 7,688 | 8,021 | -4.2% | 7,597 | 7,941 | 76 | 75 | 0 | 0 | 15 | 5 |
| Ohio | 8,852 | 9,966 | -11.0% | 2,259 | 2,288 | 6,592 | 7,678 | 0 | 0 | 1 | 1 |
| Wisconsin | 6,513 | 6,320 | 3.1% | 6,447 | 6,261 | 0 | 0 | 0 | 0 | 66 | 59 |
| West North Central | 37,621 | 35,676 | 5.5% | 37,187 | 35,268 | 0 | 0 | 8 | 13 | 426 | 395 |
| Iowa | 4,461 | 4,003 | 11.0% | 4,288 | 3,849 | 0 | 0 | 7 | 8 | 166 | 145 |
| Kansas | 3,984 | 3,481 | 14.0% | 3,984 | 3,481 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 4,321 | 4,129 | 4.7% | 4,209 | 4,012 | 0 | 0 | 0 | 1 | 112 | 116 |
| Missouri | 11,916 | 12,570 | -5.2% | 11,915 | 12,566 | 0 | 0 | 1 | 4 | 0 | 0 |
| Nebraska | 4,691 | 4,018 | 17.0% | 4,557 | 3,895 | 0 | 0 | 0 | 0 | 134 | 123 |
| North Dakota | 7,723 | 7,083 | 9.0% | 7,710 | 7,072 | 0 | 0 | 0 | 0 | 13 | 10 |
| South Dakota | 525 | 392 | 34.0% | 525 | 392 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 26,128 | 27,771 | -5.9% | 22,193 | 25,028 | 3,832 | 2,668 | 5 | 6 | 99 | 70 |
| Delaware | 49 | 33 | 49.0% | 0 | 0 | 49 | 33 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 3,769 | 5,450 | -31.0% | 3,761 | 5,442 | 0 | 0 | 0 | 0 | 8 | 8 |
| Georgia | 4,397 | 4,696 | -6.4% | 4,384 | 4,685 | 0 | 0 | 0 | 0 | 13 | 10 |
| Maryland | 1,785 | 761 | 135.0% | 0 | 0 | 1,778 | 754 | 0 | 0 | 7 | 7 |
| North Carolina | 4,026 | 3,890 | 3.5% | 4,001 | 3,859 | 11 | 14 | 4 | 4 | 11 | 13 |
| South Carolina | 2,295 | 2,388 | -3.9% | 2,293 | 2,387 | 0 | 0 | 0 | 0 | 2 | 2 |
| Virginia | 1,703 | 1,752 | -2.8% | 1,550 | 1,657 | 93 | 64 | 1 | 2 | 59 | 30 |
| West Virginia | 8,104 | 8,801 | -7.9% | 6,204 | 6,997 | 1,900 | 1,803 | 0 | 0 | 0 | 0 |
| East South Central | 18,090 | 19,065 | -5.1% | 17,162 | 18,116 | 872 | 895 | 0 | 0 | 56 | 54 |
| Alabama | 5,338 | 5,036 | 6.0% | 5,332 | 5,032 | 0 | 0 | 0 | 0 | 6 | 5 |
| Kentucky | 8,131 | 8,844 | -8.1% | 8,131 | 8,844 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 1,110 | 1,279 | -13.0% | 238 | 384 | 872 | 895 | 0 | 0 | 0 | 0 |
| Tennessee | 3,510 | 3,906 | -10.0% | 3,461 | 3,856 | 0 | 0 | 0 | 0 | 49 | 49 |
| West South Central | 30,505 | 36,919 | -17.0% | 16,278 | 17,396 | 14,179 | 19,462 | 0 | 0 | 48 | 62 |
| Arkansas | 4,477 | 4,589 | -2.4% | 3,646 | 4,247 | 828 | 339 | 0 | 0 | 3 | 3 |
| Louisiana | 1,971 | 2,447 | -19.0% | 1,210 | 1,337 | 760 | 1,109 | 0 | 0 | 0 | 0 |
| Oklahoma | 3,007 | 3,371 | -11.0% | 2,668 | 3,052 | 294 | 260 | 0 | 0 | 45 | 59 |
| Texas | 21,050 | 26,512 | -21.0% | 8,754 | 8,760 | 12,297 | 17,752 | 0 | 0 | 0 | 0 |
| Mountain | 26,008 | 28,553 | -8.9% | 22,383 | 25,197 | 3,588 | 3,323 | 0 | 0 | 37 | 33 |
| Arizona | 5,098 | 4,980 | 2.4% | 5,098 | 4,980 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 4,681 | 5,350 | -13.0% | 4,679 | 5,349 | 0 | 0 | 0 | 0 | 1 | 1 |
| Idaho | 2 | 2 | 8.8% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Montana | 3,206 | 2,926 | 9.6% | 65 | 92 | 3,140 | 2,833 | 0 | 0 | 1 | 1 |
| Nevada | 158 | 336 | -53.0% | 0 | 151 | 158 | 184 | 0 | 0 | 0 | 0 |
| New Mexico | 1,673 | 3,794 | -56.0% | 1,673 | 3,794 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 3,494 | 3,501 | -0.2% | 3,366 | 3,376 | 128 | 125 | 0 | 0 | 0 | 0 |
| Wyoming | 7,696 | 7,664 | 0.4% | 7,502 | 7,453 | 161 | 182 | 0 | 0 | 33 | 29 |
| Pacific Contiguous | 521 | 902 | -42.0% | 0 | 334 | 499 | 546 | 0 | 0 | 22 | 22 |
| California | 19 | 20 | -1.2% | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 20 |
| Oregon | 0 | 334 | -100.0% | 0 | 334 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 502 | 548 | -8.4% | 0 | 0 | 499 | 546 | 0 | 0 | 2 | 2 |
| Pacific Noncontiguous | 390 | 351 | 11.0% | NM | 77 | 301 | 263 | 13 | 12 | 0 | 0 |
| Alaska | 141 | 132 | 6.8% | NM | 77 | 51 | 43 | 13 | 12 | 0 | 0 |
| Hawaii | 250 | 220 | 14.0% | 0 | 0 | 250 | 220 | 0 | 0 | 0 | 0 |
| U.S. Total | 195,346 | 204,188 | -4.3% | 144,484 | 149,503 | 49,840 | 53,712 | 33 | 36 | 988 | 938 |

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 preliminary. 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 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, April 2018 and April 2017 (Thousand Barrels)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 59 | 24 | 145.0% | 4 | 7 | 51 | 14 | 3 | 3 | 1 | 0 |
| Connecticut | 7 | NM | NM | 1 | 1 | 6 | NM | NM | NM | 0 | 0 |
| Maine | 8 | 6 | 31.0% | 0 | 0 | 7 | 5 | 1 | 1 | 1 | 0 |
| Massachusetts | 37 | 5 | 727.0% | NM | NM | 35 | 3 | 1 | 1 | 0 | 0 |
| New Hampshire | 4 | 5 | -27.0% | 2 | 4 | NM | NM | 1 | 1 | 0 | 0 |
| Rhode Island | NM | 3 | NM | 0 | 1 | NM | NM | 0 | 0 | 0 | 0 |
| Vermont | 1 | 1 | 1.0% | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 93 | 51 | 82.0% | 11 | 12 | 74 | 30 | 3 | NM | 4 | 7 |
| New Jersey | 4 | 1 | 164.0% | NM | NM | 2 | 1 | 2 | 0 | 0 | 0 |
| New York | 59 | 24 | 149.0% | 11 | 11 | 44 | 5 | NM | NM | 3 | 6 |
| Pennsylvania | 31 | 26 | 17.0% | 0 | 0 | 28 | 24 | 1 | 1 | NM | NM |
| East North Central | 86 | 67 | 27.0% | 55 | 47 | 28 | 19 | 1 | 0 | 2 | 1 |
| Illinois | 10 | 8 | 27.0% | 2 | 1 | 8 | 7 | NM | NM | 0 | 0 |
| Indiana | 10 | 22 | -56.0% | 8 | 21 | 0 | 0 | 0 | 0 | 1 | 1 |
| Michigan | 32 | 12 | 161.0% | 31 | 12 | 0 | 0 | 0 | 0 | 0 | NM |
| Ohio | 27 | 23 | 20.0% | 7 | 10 | 20 | 12 | 0 | 0 | 0 | 0 |
| Wisconsin | 7 | NM | NM | 7 | NM | 0 | 0 | 0 | 0 | NM | NM |
| West North Central | 43 | 46 | -6.3% | 40 | 45 | 3 | NM | 0 | 0 | 0 | 0 |
| Iowa | 13 | 11 | 13.0% | 13 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 7 | 16 | -56.0% | 7 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | NM | 5 | NM | NM | 4 | 3 | NM | 0 | 0 | 0 | 0 |
| Missouri | 7 | 9 | -20.0% | 7 | 9 | NM | NM | 0 | 0 | 0 | 0 |
| Nebraska | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 6 | 2 | 130.0% | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | NM | NM | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 |
| South Atlantic | 183 | 252 | -27.0% | 140 | 221 | 30 | 23 | 8 | 3 | 5 | 6 |
| Delaware | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| District of Columbia | NM | 0 | -- | 0 | 0 | 0 | 0 | NM | 0 | 0 | 0 |
| Florida | 51 | 128 | -60.0% | 49 | 126 | 1 | NM | 0 | 0 | NM | 1 |
| Georgia | 15 | 19 | -18.0% | 12 | 13 | NM | NM | 0 | 0 | NM | 2 |
| Maryland | 10 | 8 | 28.0% | 0 | NM | 10 | 8 | 0 | 0 | 0 | 0 |
| North Carolina | 29 | 30 | -3.4% | 26 | 27 | NM | NM | 0 | 0 | 1 | 1 |
| South Carolina | 12 | 15 | -21.0% | 10 | 14 | 0 | 0 | 0 | 0 | 1 | 1 |
| Virginia | 43 | 31 | 39.0% | 21 | NM | 14 | 5 | 8 | 2 | NM | NM |
| West Virginia | 21 | 18 | 19.0% | 21 | 18 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 22 | 37 | -40.0% | 21 | 35 | NM | 0 | 0 | 0 | NM | NM |
| Alabama | NM | 4 | NM | 1 | 4 | NM | NM | 0 | 0 | NM | NM |
| Kentucky | 9 | 17 | -46.0% | 9 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 4 | NM | NM | 3 | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 7 | 13 | -48.0% | 7 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | 33 | 17 | 100.0% | 22 | 10 | 10 | 6 | 0 | 0 | 0 | 1 |
| Arkansas | 6 | 2 | 145.0% | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 7 | NM | NM | 7 | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 4 | 2 | 141.0% | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 17 | 12 | 40.0% | 10 | 6 | 6 | 6 | 0 | 0 | 0 | 0 |
| Mountain | 29 | 35 | -15.0% | 27 | 32 | 2 | 3 | 0 | 0 | 0 | 0 |
| Arizona | 10 | 8 | 24.0% | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | NM | 2 | NM | NM | NM | 1 | 2 | 0 | 0 | 0 | 0 |
| Nevada | 1 | 0 | 32.0% | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | NM | 6 | NM | NM | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 9 | 9 | -3.4% | 8 | 8 | 1 | 1 | 0 | 0 | 0 | 0 |
| Wyoming | 5 | 9 | -40.0% | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 6 | 8 | -21.0% | 5 | 5 | 1 | 2 | 0 | 0 | 1 | 1 |
| California | 5 | 7 | -25.0% | 5 | 5 | 0 | 2 | 0 | 0 | NM | 0 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 1 | 1 | 3.9% | NM | NM | 0 | 0 | 0 | 0 | 1 | 1 |
| Pacific Noncontiguous | 963 | 982 | -1.9% | 801 | 775 | 139 | 187 | 1 | 2 | 22 | 19 |
| Alaska | 117 | 99 | 17.0% | 110 | 95 | 0 | 0 | 0 | NM | 7 | 5 |
| Hawaii | 847 | 883 | -4.1% | 692 | 680 | 139 | 187 | 0 | 2 | 16 | 15 |
| U.S. Total | 1,518 | 1,519 | -0.1% | 1,128 | 1,188 | 337 | 285 | 16 | 10 | 36 | 36 |

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 preliminary. 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 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through April 2018 and April 2017 (Thousand Barrels)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 1,552 | 225 | 589.0% | 252 | 27 | 1,267 | 176 | 25 | 19 | NM | 2 |
| Connecticut | 317 | 37 | 760.0% | NM | 4 | 310 | 32 | NM | NM | 1 | 0 |
| Maine | 263 | 47 | 458.0% | 0 | 0 | 255 | 43 | 2 | 2 | NM | 2 |
| Massachusetts | 641 | 107 | 500.0% | 81 | NM | 548 | 96 | NM | 8 | 1 | 0 |
| New Hampshire | 246 | 19 | NM | 159 | 13 | 79 | NM | 8 | 6 | 0 | 0 |
| Rhode Island | NM | 12 | NM | 0 | 5 | NM | NM | 1 | 2 | 0 | 0 |
| Vermont | NM | 3 | NM | NM | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 3,354 | 427 | 685.0% | 1,083 | 135 | 2,227 | 258 | NM | NM | NM | 26 |
| New Jersey | 321 | 31 | 946.0% | 3 | NM | 313 | 30 | 4 | 0 | 1 | 0 |
| New York | 2,278 | 237 | 862.0% | 1,078 | 135 | 1,175 | 80 | NM | NM | NM | 18 |
| Pennsylvania | 754 | 160 | 372.0% | 2 | 0 | 738 | 148 | 6 | 4 | NM | 8 |
| East North Central | 468 | 280 | 67.0% | 258 | 176 | 198 | 97 | NM | 2 | 8 | 5 |
| Illinois | 48 | 37 | 30.0% | NM | 5 | 38 | 32 | NM | NM | 0 | 0 |
| Indiana | 71 | 62 | 15.0% | 64 | 59 | 1 | 0 | 0 | 0 | 7 | 3 |
| Michigan | 105 | 50 | 111.0% | 103 | 48 | 0 | 0 | 2 | 1 | 0 | 1 |
| Ohio | 222 | 112 | 99.0% | 63 | 46 | 157 | 65 | 0 | 0 | 1 | 1 |
| Wisconsin | 21 | 20 | 9.9% | NM | 19 | 2 | 0 | 0 | 0 | NM | NM |
| West North Central | 266 | 194 | 37.0% | 235 | 190 | NM | NM | 1 | 1 | 0 | 0 |
| Iowa | 66 | 53 | 24.0% | 65 | 53 | NM | 0 | 0 | 0 | 0 | 0 |
| Kansas | NM | 37 | NM | NM | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | NM | 21 | NM | NM | 17 | NM | NM | 1 | 0 | 0 | 0 |
| Missouri | 76 | 40 | 89.0% | 76 | 40 | NM | NM | 0 | 0 | 0 | 0 |
| Nebraska | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 19 | 33 | -43.0% | 19 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | NM | 5 | NM | NM | 5 | 0 | 0 | NM | NM | 0 | 0 |
| South Atlantic | 3,281 | 1,022 | 221.0% | 2,146 | 802 | 1,051 | 179 | 47 | 22 | 37 | 20 |
| Delaware | 208 | NM | NM | 12 | 0 | 196 | NM | 0 | 0 | 0 | 0 |
| District of Columbia | NM | 0 | -- | 0 | 0 | 0 | 0 | NM | 0 | 0 | 0 |
| Florida | 446 | 365 | 22.0% | NM | 357 | NM | 3 | 0 | 0 | NM | 5 |
| Georgia | NM | 69 | NM | NM | 49 | NM | NM | 5 | 1 | NM | 5 |
| Maryland | 415 | 60 | 597.0% | 6 | 2 | 406 | 57 | 1 | 0 | 2 | 1 |
| North Carolina | 654 | 149 | 339.0% | 610 | 135 | NM | 11 | 0 | 0 | NM | 3 |
| South Carolina | NM | 59 | NM | NM | 54 | 42 | 1 | NM | 0 | 6 | 4 |
| Virginia | 913 | 225 | 307.0% | NM | 131 | 206 | 71 | 41 | 20 | NM | 2 |
| West Virginia | 114 | 74 | 54.0% | 97 | 74 | 17 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 244 | 159 | 54.0% | 176 | 150 | 58 | 5 | 0 | 0 | NM | 4 |
| Alabama | 101 | 27 | 276.0% | NM | 19 | 58 | 4 | 0 | 0 | NM | 3 |
| Kentucky | 61 | 67 | -8.4% | 61 | 67 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | NM | 9 | NM | NM | 8 | 0 | 0 | 0 | 0 | 2 | 0 |
| Tennessee | 67 | 56 | 20.0% | 67 | 55 | 0 | 0 | 0 | 0 | 0 | 0 |
| West South Central | NM | 88 | NM | NM | 39 | NM | 47 | 0 | 0 | 3 | 1 |
| Arkansas | NM | 26 | NM | NM | 7 | 5 | 18 | 0 | 0 | 2 | 1 |
| Louisiana | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 10 | 9 | 18.0% | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | NM | 48 | NM | NM | 19 | NM | 28 | 0 | 0 | 1 | 1 |
| Mountain | 114 | 148 | -23.0% | 105 | 131 | 9 | 17 | 0 | 0 | 0 | 0 |
| Arizona | 38 | 36 | 3.7% | 38 | 36 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 11 | 7 | 53.0% | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -55.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 6 | 14 | -53.0% | NM | NM | 6 | 13 | 0 | 0 | 0 | 0 |
| Nevada | 1 | 2 | -32.0% | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| New Mexico | 12 | 34 | -65.0% | 12 | 34 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 24 | 27 | -8.6% | 23 | 25 | 1 | 1 | 0 | 0 | 0 | 0 |
| Wyoming | 22 | 28 | -22.0% | 22 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 35 | 51 | -31.0% | 20 | 29 | 3 | 10 | 0 | 0 | 11 | 12 |
| California | 30 | 33 | -6.8% | 20 | 21 | 2 | 3 | 0 | 0 | 9 | 9 |
| Oregon | 0 | 5 | -100.0% | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 5 | 13 | -65.0% | NM | 3 | NM | 7 | 0 | 0 | 3 | 3 |
| Pacific Noncontiguous | 3,855 | 4,145 | -7.0% | 3,248 | 3,466 | 513 | 586 | 6 | 7 | 87 | 87 |
| Alaska | 510 | 598 | -15.0% | 483 | 570 | 0 | 0 | 3 | 3 | 24 | 25 |
| Hawaii | 3,345 | 3,547 | -5.7% | 2,765 | 2,896 | 513 | 586 | 3 | 3 | 64 | 62 |
| U.S. Total | 13,286 | 6,739 | 97.0% | 7,613 | 5,145 | 5,381 | 1,377 | 102 | 59 | 189 | 157 |

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Notes: See Glossary for definitions. Values are preliminary. 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 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, April 2018 and April 2017 (Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| 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 | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| New Jersey | 0 | 1 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| East North Central | 39 | 56 | -29.0% | 36 | 35 | 0 | 17 | 0 | 0 | 4 | 3 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 39 | 38 | 2.1% | 36 | 35 | 0 | 0 | 0 | 0 | 4 | 3 |
| Ohio | 0 | 17 | -99.0% | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | -78.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 1 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Iowa | 1 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 31 | 8 | 271.0% | 28 | 8 | 0 | 0 | 0 | 0 | NM | NM |
| 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 | 28 | 8 | 229.0% | 28 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | NM | NM | -- | 0 | 0 | 0 | 0 | 0 | 0 | NM | NM |
| 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 | 19 | -100.0% | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 19 | -100.0% | 0 | 19 | 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 | 137 | 57 | 141.0% | 130 | 48 | 0 | 0 | 0 | 0 | 7 | 9 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 133 | 52 | 153.0% | 130 | 48 | 0 | 0 | 0 | 0 | 2 | 4 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 4 | 5 | -4.3% | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 |
| Mountain | 14 | 12 | 17.0% | 0 | 0 | 14 | 12 | 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 | 14 | 12 | 17.0% | 0 | 0 | 14 | 12 | 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 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 224 | 153 | 46.0% | 193 | 110 | 14 | 29 | 0 | 0 | 16 | 13 |

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 preliminary. 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 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through April 2018 and April 2017 (Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| 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 | 6 | 6 | -9.6% | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| New Jersey | 2 | 3 | -31.0% | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 |
| New York | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | NM | 4 | NM | 0 | 0 | 0 | 0 | 0 | 0 | NM | 4 |
| East North Central | 248 | 247 | 0.6% | 202 | 140 | 38 | 90 | 0 | 0 | 8 | 16 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 197 | 151 | 30.0% | 189 | 135 | 0 | 0 | 0 | 0 | 8 | 16 |
| Ohio | 38 | 90 | -57.0% | 0 | 0 | 38 | 90 | 0 | 0 | 0 | 0 |
| Wisconsin | 13 | 5 | 139.0% | 13 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 5 | 3 | 66.0% | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 2 |
| Iowa | 5 | 3 | 66.0% | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 2 |
| 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 | 182 | 84 | 117.0% | 170 | 78 | 0 | 0 | 0 | 0 | 12 | 6 |
| 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 | 170 | 78 | 118.0% | 170 | 78 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 12 | 6 | 101.0% | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 6 |
| 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 | 98 | -100.0% | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 98 | -100.0% | 0 | 98 | 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 | 568 | 554 | 2.5% | 549 | 527 | 0 | 0 | 0 | 0 | 19 | 27 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 557 | 539 | 3.4% | 549 | 527 | 0 | 0 | 0 | 0 | 8 | 12 |
| Oklahoma | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 11 | 15 | -28.0% | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 15 |
| Mountain | 56 | 51 | 9.7% | 0 | 0 | 56 | 51 | 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 | 56 | 51 | 9.7% | 0 | 0 | 56 | 51 | 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 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 1,066 | 1,043 | 2.2% | 921 | 843 | 95 | 142 | 1 | 1 | 49 | 58 |

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 preliminary. 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 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, April 2018 and April 2017 (Million Cubic Feet)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 22,830 | 28,787 | -21.0% | NM | NM | 21,806 | 27,931 | 409 | 312 | 474 | 452 |
| Connecticut | 9,262 | 7,335 | 26.0% | 29 | 28 | 8,849 | 6,973 | 177 | 140 | 206 | 194 |
| Maine | 1,198 | 1,457 | -18.0% | 0 | 0 | 1,054 | NM | 13 | 11 | 131 | 134 |
| Massachusetts | 8,363 | 13,296 | -37.0% | NM | NM | 7,937 | 12,984 | 196 | 145 | 120 | 106 |
| New Hampshire | 636 | 3,589 | -82.0% | 1 | 2 | 615 | 3,570 | 3 | 0 | 17 | 17 |
| Rhode Island | 3,370 | 3,109 | 8.4% | 0 | 0 | 3,350 | 3,093 | 20 | 16 | 0 | 0 |
| Vermont | 2 | 0 | NM | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 84,569 | 69,335 | 22.0% | 5,664 | 5,761 | 77,212 | 62,438 | 518 | 424 | 1,175 | 711 |
| New Jersey | 21,127 | 19,201 | 10.0% | NM | NM | 20,741 | 18,844 | 64 | 74 | 174 | 128 |
| New York | 26,212 | 24,566 | 6.7% | 5,511 | 5,603 | 19,968 | 18,541 | 395 | 294 | 337 | 129 |
| Pennsylvania | 37,230 | 25,567 | 46.0% | 4 | 3 | 36,503 | 25,054 | 59 | 56 | 663 | 455 |
| East North Central | 69,603 | 45,244 | 54.0% | 24,819 | 20,062 | 42,080 | 22,756 | 583 | 523 | 2,122 | 1,902 |
| Illinois | 7,357 | 6,625 | 11.0% | 382 | NM | 6,449 | 5,529 | 152 | 126 | 374 | 363 |
| Indiana | 13,804 | 8,844 | 56.0% | 6,135 | 6,854 | 6,555 | 1,008 | 65 | 75 | 1,049 | 907 |
| Michigan | 20,435 | 12,750 | 60.0% | 7,787 | 4,379 | 11,935 | 7,738 | 240 | 207 | 473 | 425 |
| Ohio | 21,991 | 11,703 | 88.0% | 5,782 | 3,829 | 16,037 | 7,707 | 85 | 89 | 87 | 78 |
| Wisconsin | 6,017 | 5,323 | 13.0% | 4,733 | 4,393 | 1,104 | 774 | 41 | 26 | 139 | 130 |
| West North Central | 16,082 | 9,618 | 67.0% | 13,626 | 8,142 | 2,076 | 1,176 | 143 | 117 | 238 | 182 |
| Iowa | 4,164 | 1,766 | 136.0% | 3,973 | 1,600 | NM | 0 | 39 | 43 | 152 | 123 |
| Kansas | 2,492 | 1,525 | 63.0% | 2,476 | 1,520 | 0 | 0 | 0 | 0 | 16 | 5 |
| Minnesota | 5,442 | 2,916 | 87.0% | 4,593 | 2,399 | 767 | 450 | 37 | 29 | 46 | 38 |
| Missouri | 2,297 | 2,360 | -2.7% | 913 | NM | 1,309 | NM | 62 | 44 | 13 | 14 |
| Nebraska | NM | 210 | NM | NM | 210 | 0 | 0 | 5 | 1 | 0 | 0 |
| North Dakota | 708 | 537 | 32.0% | 697 | 535 | 0 | 0 | 0 | 0 | 11 | 3 |
| South Dakota | NM | NM | NM | NM | NM | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 185,575 | 175,381 | 5.8% | 146,943 | 141,584 | 36,230 | 31,342 | 491 | 445 | 1,911 | 2,011 |
| Delaware | 3,939 | 3,405 | 16.0% | 5 | 4 | 3,686 | 3,088 | 0 | 0 | 248 | 312 |
| District of Columbia | NM | 30 | NM | 0 | 0 | 0 | 0 | NM | 30 | 0 | 0 |
| Florida | 97,037 | 93,697 | 3.6% | 91,138 | 86,062 | 5,232 | 6,971 | 12 | 10 | 655 | 654 |
| Georgia | 24,423 | 24,615 | -0.8% | 16,025 | 18,222 | 8,030 | 6,031 | 0 | 0 | 368 | 362 |
| Maryland | 7,838 | 4,125 | 90.0% | 2,703 | 0 | 4,674 | 3,691 | 422 | 400 | 39 | 35 |
| North Carolina | 21,028 | 18,350 | 15.0% | 19,388 | 15,621 | 1,579 | 2,676 | 0 | 5 | 61 | 48 |
| South Carolina | 8,520 | 10,940 | -22.0% | 7,498 | 9,732 | 942 | 1,125 | 0 | 0 | 80 | 84 |
| Virginia | 21,485 | 19,776 | 8.6% | 9,749 | 11,898 | 11,310 | 7,477 | 7 | 0 | 418 | 401 |
| West Virginia | 1,255 | 442 | 184.0% | 437 | 44 | 776 | NM | 0 | 0 | 42 | 115 |
| East South Central | 75,760 | 67,970 | 11.0% | 52,337 | 47,338 | 22,334 | 19,570 | 84 | 62 | 1,005 | 1,000 |
| Alabama | 32,644 | 29,134 | 12.0% | 12,994 | 10,673 | 19,126 | 17,903 | 0 | 0 | 524 | 559 |
| Kentucky | 7,329 | 6,688 | 9.6% | 6,331 | 6,528 | 940 | 88 | 0 | 0 | 58 | 71 |
| Mississippi | 29,670 | 25,424 | 17.0% | 27,256 | 23,684 | 2,251 | 1,564 | 6 | 0 | 157 | 176 |
| Tennessee | 6,117 | 6,724 | -9.0% | 5,756 | 6,453 | 16 | 16 | 79 | 62 | 266 | 193 |
| West South Central | 173,785 | 163,816 | 6.1% | 59,843 | 54,596 | 83,885 | 79,083 | 241 | 221 | 29,816 | 29,917 |
| Arkansas | 13,185 | 11,200 | 18.0% | 6,745 | 3,674 | 6,325 | 7,416 | 0 | 0 | 115 | 111 |
| Louisiana | 31,123 | 32,554 | -4.4% | 17,808 | 16,522 | 1,663 | 4,027 | 53 | NM | 11,599 | 11,984 |
| Oklahoma | 21,770 | 16,998 | 28.0% | 12,754 | 11,480 | 8,747 | 5,368 | 0 | 0 | 269 | 150 |
| Texas | 107,706 | 103,064 | 4.5% | 22,535 | 22,920 | 67,150 | 62,272 | NM | 199 | 17,833 | 17,673 |
| Mountain | 50,431 | 42,188 | 20.0% | 40,584 | 32,885 | 8,656 | 8,065 | 179 | 186 | 1,011 | 1,052 |
| Arizona | 17,326 | 14,213 | 22.0% | 13,840 | 10,819 | 3,438 | 3,346 | 49 | 48 | 0 | 0 |
| Colorado | 7,291 | 7,033 | 3.7% | 6,390 | 5,948 | 873 | 1,058 | 0 | 0 | 29 | 27 |
| Idaho | 901 | 1,107 | -19.0% | NM | 613 | NM | 436 | 14 | 14 | 37 | 44 |
| Montana | 305 | 333 | -8.4% | 283 | 295 | NM | 39 | 0 | 0 | 0 | 0 |
| Nevada | 13,089 | 11,799 | 11.0% | 11,764 | 10,425 | 1,131 | 1,198 | 19 | 21 | 175 | 155 |
| New Mexico | 7,334 | 4,571 | 60.0% | 4,744 | 2,692 | 2,548 | 1,833 | 42 | 44 | 0 | 2 |
| Utah | 3,682 | 2,719 | 35.0% | 3,189 | 2,041 | 44 | 153 | 55 | 58 | 394 | 466 |
| Wyoming | 501 | 412 | 22.0% | NM | 53 | 3 | 2 | 0 | 0 | 378 | 357 |
| Pacific Contiguous | 44,019 | 36,612 | 20.0% | 16,305 | 14,737 | 21,594 | 15,741 | 860 | 864 | 5,259 | 5,271 |
| California | 35,049 | 30,609 | 15.0% | 12,337 | 11,318 | 16,712 | 13,250 | 832 | 841 | 5,168 | 5,200 |
| Oregon | 5,151 | 2,134 | 141.0% | 2,277 | 1,123 | 2,813 | 959 | 20 | 15 | 42 | 37 |
| Washington | 3,818 | 3,869 | -1.3% | 1,692 | 2,297 | 2,069 | 1,531 | 8 | 8 | 49 | 34 |
| Pacific Noncontiguous | 1,969 | 1,539 | 28.0% | 1,950 | 1,510 | 0 | 0 | 0 | 3 | 19 | 26 |
| Alaska | 1,969 | 1,539 | 28.0% | 1,950 | 1,510 | 0 | 0 | 0 | 3 | 19 | 26 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 724,622 | 640,489 | 13.0% | 362,210 | 326,706 | 315,874 | 268,102 | 3,508 | 3,158 | 43,029 | 42,523 |

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 preliminary. 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 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through April 2018 and April 2017 (Million Cubic Feet)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 100,314 | 109,117 | -8.1% | NM | NM | 96,441 | 105,413 | 1,506 | 1,461 | 1,916 | 1,924 |
| Connecticut | 38,294 | 34,485 | 11.0% | 119 | 127 | 36,690 | 32,886 | 649 | 633 | 836 | 838 |
| Maine | 4,556 | 6,017 | -24.0% | 0 | 0 | 3,973 | 5,385 | 46 | 42 | 537 | 590 |
| Massachusetts | 43,374 | 49,828 | -13.0% | NM | NM | 41,843 | 48,511 | 731 | 704 | 476 | 431 |
| New Hampshire | 2,075 | 7,117 | -71.0% | 6 | 5 | 1,991 | 7,027 | 12 | 20 | 66 | 65 |
| Rhode Island | 12,010 | 11,664 | 3.0% | 0 | 0 | 11,945 | 11,604 | 65 | 60 | 0 | 0 |
| Vermont | 5 | 6 | -12.0% | 3 | 4 | 0 | 0 | 2 | 2 | 0 | 0 |
| Middle Atlantic | 334,233 | 313,247 | 6.7% | 24,939 | 26,381 | 302,930 | 281,425 | 2,046 | 1,974 | 4,318 | 3,468 |
| New Jersey | 79,628 | 80,990 | -1.7% | NM | NM | 78,171 | 79,500 | 298 | 325 | 698 | 624 |
| New York | 102,314 | 110,274 | -7.2% | 24,446 | 25,829 | 75,150 | 82,364 | 1,473 | 1,415 | 1,245 | 666 |
| Pennsylvania | 152,290 | 121,983 | 25.0% | 32 | 10 | 149,608 | 119,562 | 275 | 234 | 2,375 | 2,177 |
| East North Central | 287,993 | 211,542 | 36.0% | 108,047 | 92,706 | 168,676 | 108,293 | 2,436 | 2,393 | 8,834 | 8,149 |
| Illinois | 30,042 | 32,327 | -7.1% | 1,635 | 2,780 | 26,215 | 27,384 | 640 | 648 | 1,553 | 1,516 |
| Indiana | 55,588 | 42,638 | 30.0% | 27,820 | 32,338 | 23,190 | 6,266 | 292 | 300 | 4,285 | 3,734 |
| Michigan | 76,715 | 56,489 | 36.0% | 24,985 | 19,387 | 48,603 | 34,195 | 1,044 | 927 | 2,083 | 1,979 |
| Ohio | 90,895 | 56,355 | 61.0% | 21,537 | 17,363 | 68,695 | 38,276 | 315 | 397 | 348 | 320 |
| Wisconsin | 34,753 | 23,733 | 46.0% | 32,070 | 20,839 | 1,974 | 2,172 | 145 | 123 | 565 | 600 |
| West North Central | 60,045 | 40,025 | 50.0% | 51,390 | 33,569 | 7,118 | 5,292 | 506 | 448 | 1,032 | 716 |
| Iowa | 13,130 | 5,844 | 125.0% | 12,450 | 5,373 | NM | 0 | 165 | 121 | 515 | 349 |
| Kansas | 7,436 | 4,526 | 64.0% | 7,264 | 4,467 | 0 | 0 | 0 | 0 | 172 | 59 |
| Minnesota | 19,976 | 14,446 | 38.0% | 16,723 | 11,934 | 2,869 | 2,078 | 153 | 208 | 232 | 226 |
| Missouri | 13,425 | 10,208 | 32.0% | 8,948 | 6,816 | 4,249 | 3,213 | 164 | 114 | 63 | 64 |
| Nebraska | 1,165 | 989 | 18.0% | 1,141 | 983 | 0 | 0 | 23 | 5 | 0 | 0 |
| North Dakota | 3,079 | 2,497 | 23.0% | 3,030 | 2,480 | 0 | 0 | 0 | 0 | 49 | 17 |
| South Dakota | 1,834 | 1,515 | 21.0% | 1,834 | 1,515 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 758,963 | 691,217 | 9.8% | 621,211 | 570,170 | 127,924 | 111,050 | 2,305 | 2,062 | 7,523 | 7,935 |
| Delaware | 13,666 | 14,233 | -4.0% | 7 | 9 | 12,582 | 12,721 | 0 | 0 | 1,077 | 1,504 |
| District of Columbia | 229 | 246 | -7.0% | 0 | 0 | 0 | 0 | 229 | 246 | 0 | 0 |
| Florida | 361,315 | 334,269 | 8.1% | 341,519 | 310,772 | 17,230 | 20,946 | 41 | 47 | 2,526 | 2,503 |
| Georgia | 113,884 | 109,168 | 4.3% | 86,542 | 83,867 | 26,041 | 24,047 | 0 | 0 | 1,301 | 1,254 |
| Maryland | 24,969 | 14,538 | 72.0% | 6,756 | 0 | 16,073 | 12,660 | 1,988 | 1,732 | 152 | 146 |
| North Carolina | 96,480 | 87,325 | 10.0% | 85,542 | 76,546 | 10,658 | 10,574 | 18 | 21 | 261 | 184 |
| South Carolina | 37,240 | 37,128 | 0.3% | 31,155 | 32,668 | 5,793 | 4,168 | 1 | 2 | 291 | 290 |
| Virginia | 108,494 | 92,455 | 17.0% | 68,824 | 65,894 | 38,123 | 25,091 | 28 | 13 | 1,519 | 1,456 |
| West Virginia | 2,686 | 1,855 | 45.0% | 867 | 414 | 1,424 | NM | 0 | 0 | 394 | 598 |
| East South Central | 304,668 | 256,905 | 19.0% | 213,469 | 176,144 | 86,804 | 76,502 | 357 | 314 | 4,037 | 3,945 |
| Alabama | 118,297 | 106,650 | 11.0% | 42,841 | 37,719 | 73,343 | 66,797 | 0 | 0 | 2,113 | 2,133 |
| Kentucky | 38,032 | 23,776 | 60.0% | 34,750 | 22,558 | 2,971 | 879 | 0 | 0 | 311 | 340 |
| Mississippi | 119,904 | 99,844 | 20.0% | 108,747 | 90,353 | 10,431 | 8,790 | 39 | 21 | 687 | 680 |
| Tennessee | 28,435 | 26,636 | 6.8% | 27,131 | 25,514 | 59 | 36 | 318 | 294 | 927 | 792 |
| West South Central | 706,330 | 581,421 | 21.0% | 224,596 | 176,306 | 361,142 | 282,448 | 995 | 1,186 | 119,598 | 121,481 |
| Arkansas | 46,204 | 33,565 | 38.0% | 16,354 | 12,117 | 29,314 | 20,957 | 0 | 0 | 536 | 491 |
| Louisiana | 126,807 | 119,327 | 6.3% | 72,257 | 60,553 | 8,130 | 10,980 | 216 | 220 | 46,204 | 47,574 |
| Oklahoma | 74,587 | 55,358 | 35.0% | 43,245 | 37,013 | 30,417 | 17,745 | 0 | 0 | 926 | 600 |
| Texas | 458,731 | 373,171 | 23.0% | 92,739 | 66,623 | 293,280 | 232,767 | 779 | 966 | 71,933 | 72,816 |
| Mountain | 190,299 | 159,715 | 19.0% | 153,208 | 127,282 | 31,896 | 27,447 | 755 | 720 | 4,440 | 4,267 |
| Arizona | 53,077 | 36,577 | 45.0% | 44,644 | 28,599 | 8,234 | 7,788 | 199 | 189 | 0 | 0 |
| Colorado | 35,272 | 25,926 | 36.0% | 29,525 | 21,292 | 5,647 | 4,525 | 0 | 0 | 100 | 109 |
| Idaho | 4,457 | 5,471 | -19.0% | 1,292 | 3,039 | 2,905 | 2,149 | 59 | 60 | 201 | 223 |
| Montana | 1,274 | 1,378 | -7.6% | 1,112 | 1,162 | 155 | 206 | 0 | 0 | 6 | 10 |
| Nevada | 54,216 | 53,643 | 1.1% | 48,766 | 48,535 | 4,525 | 4,426 | 86 | 84 | 839 | 597 |
| New Mexico | 24,533 | 21,023 | 17.0% | 14,692 | 13,065 | 9,620 | 7,774 | 181 | 176 | 40 | 8 |
| Utah | 15,592 | 14,028 | 11.0% | 12,842 | 11,390 | 803 | 577 | 229 | 211 | 1,718 | 1,849 |
| Wyoming | 1,878 | 1,671 | 12.0% | 334 | 200 | 7 | 2 | 0 | 0 | 1,536 | 1,469 |
| Pacific Contiguous | 223,005 | 200,601 | 11.0% | 91,286 | 79,593 | 106,659 | 95,377 | 3,698 | 3,711 | 21,362 | 21,921 |
| California | 174,583 | 160,915 | 8.5% | 68,162 | 60,486 | 81,877 | 75,271 | 3,584 | 3,627 | 20,960 | 21,531 |
| Oregon | 29,271 | 20,901 | 40.0% | 12,919 | 8,062 | 16,093 | 12,607 | 79 | 53 | 180 | 180 |
| Washington | 19,151 | 18,785 | 1.9% | 10,205 | 11,045 | 8,689 | 7,499 | 35 | 32 | 222 | 210 |
| Pacific Noncontiguous | 9,335 | 7,347 | 27.0% | 9,250 | 7,226 | 0 | 0 | 2 | 20 | 82 | 101 |
| Alaska | 9,335 | 7,347 | 27.0% | 9,250 | 7,226 | 0 | 0 | 2 | 20 | 82 | 101 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 2,975,183 | 2,571,137 | 16.0% | 1,497,847 | 1,289,696 | 1,289,591 | 1,093,246 | 14,603 | 14,290 | 173,142 | 173,906 |

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 preliminary. 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 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, April 2018 and April 2017 (Million Cubic Feet)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 922 | 867 | 6.3% | 0 | 0 | 898 | 865 | 23 | 2 | 0 | 0 |
| Connecticut | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Maine | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Massachusetts | 347 | 338 | 2.5% | 0 | 0 | 347 | 338 | 0 | 0 | 0 | 0 |
| New Hampshire | 90 | 63 | 42.0% | 0 | 0 | NM | NM | 23 | 2 | 0 | 0 |
| Rhode Island | 361 | 348 | 3.6% | 0 | 0 | 361 | 348 | 0 | 0 | 0 | 0 |
| Vermont | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Middle Atlantic | 4,235 | 4,213 | 0.5% | 0 | 0 | 4,020 | 3,996 | 82 | 70 | 133 | 147 |
| New Jersey | 662 | 569 | 16.0% | 0 | 0 | 635 | 545 | NM | NM | 0 | 0 |
| New York | 1,301 | 1,289 | 0.9% | 0 | 0 | 1,301 | 1,289 | 0 | 0 | 0 | 0 |
| Pennsylvania | 2,272 | 2,355 | -3.5% | 0 | 0 | 2,084 | 2,162 | NM | NM | 133 | 147 |
| East North Central | 5,331 | 5,069 | 5.2% | 634 | 606 | 4,631 | 4,406 | 41 | 33 | 25 | 24 |
| Illinois | 949 | 944 | 0.4% | 30 | 32 | 918 | 912 | 0 | 0 | 0 | 0 |
| Indiana | 709 | 665 | 6.6% | 604 | 563 | 104 | 101 | 0 | 0 | 1 | 0 |
| Michigan | 1,801 | 1,624 | 11.0% | 0 | 0 | 1,801 | 1,624 | 0 | 0 | 0 | 0 |
| Ohio | 860 | 890 | -3.4% | 0 | 0 | 860 | 890 | 0 | 0 | 0 | 0 |
| Wisconsin | 1,013 | 946 | 7.1% | 0 | NM | 948 | 878 | 41 | 33 | 24 | 24 |
| West North Central | 986 | 798 | 24.0% | 300 | 262 | 686 | 536 | 0 | 0 | 0 | 0 |
| Iowa | 215 | 93 | 132.0% | 0 | 0 | 215 | 93 | 0 | 0 | 0 | 0 |
| Kansas | 118 | NM | NM | 0 | 0 | 118 | NM | 0 | 0 | 0 | 0 |
| Minnesota | 327 | 307 | 6.3% | NM | NM | 255 | 241 | 0 | 0 | 0 | 0 |
| Missouri | 173 | 162 | 6.9% | NM | NM | NM | NM | 0 | 0 | 0 | 0 |
| Nebraska | 153 | 125 | 23.0% | 153 | 125 | 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 | 3,829 | 3,679 | 4.1% | 418 | 397 | 3,128 | 3,005 | NM | 100 | 176 | 177 |
| Delaware | 112 | 107 | 5.1% | 0 | 0 | NM | NM | 0 | 0 | NM | NM |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 620 | 587 | 5.6% | 159 | 152 | 461 | 435 | 0 | 0 | 0 | 0 |
| Georgia | 318 | 323 | -1.3% | 0 | 0 | 300 | 296 | 0 | 0 | 18 | 26 |
| Maryland | 232 | 221 | 5.1% | 0 | 0 | 163 | 153 | NM | NM | 0 | 0 |
| North Carolina | 873 | 861 | 1.3% | 0 | 0 | 855 | 847 | NM | NM | 0 | 0 |
| South Carolina | 431 | 406 | 6.2% | 251 | 235 | NM | NM | 0 | 0 | 146 | 139 |
| Virginia | 1,243 | 1,175 | 5.8% | 7 | 9 | 1,215 | 1,148 | NM | NM | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 459 | 434 | 5.8% | 178 | 168 | 281 | 266 | 0 | 0 | 0 | 0 |
| Alabama | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Kentucky | 190 | 181 | 5.4% | 178 | 168 | 12 | 13 | 0 | 0 | 0 | 0 |
| Mississippi | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Tennessee | 158 | 149 | 6.2% | 0 | 0 | 158 | 149 | 0 | 0 | 0 | 0 |
| West South Central | 1,199 | 1,236 | -3.0% | 0 | 0 | 1,145 | 1,194 | 53 | 42 | 0 | 0 |
| Arkansas | 133 | 126 | 6.1% | 0 | 0 | 133 | 126 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Texas | 1,033 | 1,080 | -4.3% | 0 | 0 | 980 | 1,038 | 53 | 42 | 0 | 0 |
| Mountain | 540 | 526 | 2.6% | NM | NM | 488 | 460 | 33 | 49 | 0 | 0 |
| Arizona | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Colorado | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Idaho | NM | NM | NM | NM | NM | NM | NM | 2 | 14 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 133 | 125 | 6.4% | 0 | 0 | 133 | 125 | 0 | 0 | 0 | 0 |
| New Mexico | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Utah | 182 | 177 | 2.5% | 0 | 0 | 151 | 143 | 31 | 35 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 4,550 | 4,509 | 0.9% | 506 | 641 | 2,829 | 2,705 | 1,214 | 1,163 | 0 | 0 |
| California | 3,717 | 3,696 | 0.6% | 80 | 237 | 2,462 | 2,334 | 1,174 | 1,124 | 0 | 0 |
| Oregon | 451 | 451 | -0.1% | 121 | 115 | 289 | 298 | NM | NM | 0 | 0 |
| Washington | 382 | 362 | 5.6% | 305 | 289 | NM | NM | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 75 | 56 | 35.0% | 0 | 0 | 0 | 0 | 75 | 56 | 0 | 0 |
| Alaska | 75 | 56 | 35.0% | 0 | 0 | 0 | 0 | 75 | 56 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 22,126 | 21,387 | 3.5% | 2,055 | 2,091 | 18,108 | 17,433 | 1,629 | 1,516 | 334 | 348 |

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 preliminary. 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 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through April 2018 and April 2017 (Million Cubic Feet)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 3,600 | 3,601 | 0.0% | 0 | 0 | 3,519 | 3,540 | 81 | 61 | 0 | 0 |
| Connecticut | 149 | 146 | 1.5% | 0 | 0 | 149 | 146 | 0 | 0 | 0 | 0 |
| Maine | 231 | 227 | 1.5% | 0 | 0 | 231 | 227 | 0 | 0 | 0 | 0 |
| Massachusetts | 1,397 | 1,412 | -1.1% | 0 | 0 | 1,397 | 1,412 | 0 | 0 | 0 | 0 |
| New Hampshire | 347 | 324 | 7.0% | 0 | 0 | 266 | 263 | 81 | 61 | 0 | 0 |
| Rhode Island | 1,352 | 1,369 | -1.3% | 0 | 0 | 1,352 | 1,369 | 0 | 0 | 0 | 0 |
| Vermont | 125 | 121 | 3.1% | 0 | 0 | 125 | 121 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 17,509 | 17,827 | -1.8% | 0 | 0 | 16,667 | 16,952 | 329 | 296 | 513 | 579 |
| New Jersey | 2,608 | 2,535 | 2.9% | 0 | 0 | 2,497 | 2,431 | 111 | 104 | 0 | 0 |
| New York | 5,313 | 5,325 | -0.2% | 0 | 0 | 5,313 | 5,325 | 0 | 0 | 0 | 0 |
| Pennsylvania | 9,588 | 9,967 | -3.8% | 0 | 0 | 8,857 | 9,196 | 218 | 192 | 513 | 579 |
| East North Central | 21,132 | 21,469 | -1.6% | 2,531 | 2,614 | 18,368 | 18,628 | 128 | 130 | 105 | 97 |
| Illinois | 3,823 | 4,285 | -11.0% | 128 | 155 | 3,695 | 4,130 | 0 | 0 | 0 | 0 |
| Indiana | 2,815 | 2,780 | 1.3% | 2,404 | 2,412 | 396 | 361 | 0 | 0 | NM | 7 |
| Michigan | 6,995 | 6,915 | 1.2% | 0 | 0 | 6,995 | 6,915 | 0 | 0 | 0 | 0 |
| Ohio | 3,564 | 3,591 | -0.8% | 0 | 0 | 3,564 | 3,591 | 0 | 0 | 0 | 0 |
| Wisconsin | 3,935 | 3,899 | 0.9% | 0 | NM | 3,718 | 3,631 | 128 | 130 | 89 | 90 |
| West North Central | 3,976 | 3,407 | 17.0% | 1,199 | 1,148 | 2,777 | 2,259 | 0 | 0 | 0 | 0 |
| Iowa | 878 | 404 | 117.0% | 0 | 0 | 878 | 404 | 0 | 0 | 0 | 0 |
| Kansas | 475 | 464 | 2.4% | 0 | 0 | 475 | 464 | 0 | 0 | 0 | 0 |
| Minnesota | 1,319 | 1,294 | 1.9% | 290 | 291 | 1,029 | 1,003 | 0 | 0 | 0 | 0 |
| Missouri | 702 | 700 | 0.2% | 307 | 313 | 395 | 388 | 0 | 0 | 0 | 0 |
| Nebraska | 603 | 544 | 11.0% | 603 | 544 | 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 | 15,563 | 15,279 | 1.9% | 1,586 | 1,605 | 12,798 | 12,445 | 463 | 441 | 716 | 788 |
| Delaware | 453 | 447 | 1.4% | 0 | 0 | 405 | 397 | 0 | 0 | NM | 50 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 2,396 | 2,388 | 0.4% | 546 | 568 | 1,851 | 1,819 | 0 | 0 | 0 | 0 |
| Georgia | 1,339 | 1,315 | 1.9% | 0 | 0 | 1,307 | 1,186 | 0 | 0 | 33 | 129 |
| Maryland | 963 | 944 | 2.0% | 0 | 0 | 658 | 647 | 305 | 297 | 0 | 0 |
| North Carolina | 3,558 | 3,503 | 1.6% | 0 | 0 | 3,488 | 3,441 | NM | 62 | 0 | 0 |
| South Carolina | 1,786 | 1,749 | 2.1% | 1,015 | 1,006 | 136 | 133 | 0 | 0 | 635 | 610 |
| Virginia | 5,067 | 4,933 | 2.7% | 25 | 31 | 4,954 | 4,821 | NM | 81 | 0 | 0 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 1,838 | 1,827 | 0.6% | 717 | 706 | 1,121 | 1,121 | 0 | 0 | 0 | 0 |
| Alabama | 376 | 366 | 2.6% | 0 | 0 | 376 | 366 | 0 | 0 | 0 | 0 |
| Kentucky | 755 | 770 | -1.9% | 717 | 706 | 38 | 63 | 0 | 0 | 0 | 0 |
| Mississippi | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Tennessee | 636 | 622 | 2.3% | 0 | 0 | 636 | 622 | 0 | 0 | 0 | 0 |
| West South Central | 4,921 | 5,095 | -3.4% | 0 | 0 | 4,722 | 4,927 | 199 | 168 | 0 | 0 |
| Arkansas | 538 | 524 | 2.7% | 0 | 0 | 538 | 524 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 128 | 126 | 1.8% | 0 | 0 | 128 | 126 | 0 | 0 | 0 | 0 |
| Texas | 4,255 | 4,446 | -4.3% | 0 | 0 | 4,056 | 4,278 | 199 | 168 | 0 | 0 |
| Mountain | 2,189 | 2,176 | 0.6% | NM | NM | 1,958 | 1,940 | 156 | 161 | 0 | 0 |
| Arizona | 304 | 297 | 2.3% | 0 | 0 | 304 | 297 | 0 | 0 | 0 | 0 |
| Colorado | 366 | 357 | 2.6% | 0 | 0 | 366 | 357 | 0 | 0 | 0 | 0 |
| Idaho | 272 | 270 | 0.7% | NM | NM | 141 | 139 | 56 | 57 | 0 | 0 |
| Montana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 536 | 528 | 1.5% | 0 | 0 | 536 | 528 | 0 | 0 | 0 | 0 |
| New Mexico | NM | NM | NM | 0 | 0 | NM | NM | 0 | 0 | 0 | 0 |
| Utah | 699 | 709 | -1.4% | 0 | 0 | 599 | 604 | 100 | 104 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 19,162 | 18,499 | 3.6% | 2,549 | 2,459 | 11,693 | 11,165 | 4,919 | 4,875 | 0 | 0 |
| California | 15,659 | 15,243 | 2.7% | 805 | 841 | 10,113 | 9,696 | 4,741 | 4,706 | 0 | 0 |
| Oregon | 1,937 | 1,800 | 7.6% | 492 | 471 | 1,267 | 1,160 | 178 | 169 | 0 | 0 |
| Washington | 1,566 | 1,456 | 7.6% | 1,253 | 1,147 | 313 | 309 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 284 | 205 | 38.0% | 0 | 0 | 0 | 0 | 284 | 205 | 0 | 0 |
| Alaska | 284 | 205 | 38.0% | 0 | 0 | 0 | 0 | 284 | 205 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 90,175 | 89,386 | 0.9% | 8,657 | 8,608 | 73,625 | 72,977 | 6,559 | 6,338 | 1,334 | 1,464 |

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 preliminary. 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 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, April 2018 and April 2017 (Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 270 | 300 | -10.0% | 0 | 0 | 258 | 281 | 11 | 19 | 0 | 0 |
| Connecticut | 93 | 110 | -16.0% | 0 | 0 | 93 | 110 | 0 | 0 | 0 | 0 |
| Maine | 19 | 28 | -30.0% | 0 | 0 | 8 | 8 | 11 | 19 | 0 | 0 |
| Massachusetts | 147 | 152 | -3.3% | 0 | 0 | 147 | 152 | 0 | 0 | 0 | 0 |
| New Hampshire | 11 | 11 | 0.1% | 0 | 0 | 11 | 11 | 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 | 438 | 415 | 5.7% | 0 | 0 | 352 | 328 | 86 | 87 | 0 | 0 |
| New Jersey | 122 | 106 | 15.0% | 0 | 0 | 92 | 79 | 30 | 27 | 0 | 0 |
| New York | 169 | 166 | 1.7% | 0 | 0 | 126 | 126 | 42 | 40 | 0 | 0 |
| Pennsylvania | 147 | 143 | 3.3% | 0 | 0 | 134 | 122 | 14 | 20 | 0 | 0 |
| East North Central | 18 | 17 | 2.9% | 3 | 3 | 0 | 0 | 15 | 14 | 0 | 0 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 1 | 1 | 24.0% | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Michigan | 14 | 13 | 2.3% | 0 | 0 | 0 | 0 | 14 | 13 | 0 | 0 |
| Ohio | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 3 | 3 | -2.5% | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 48 | 53 | -10.0% | 35 | 32 | 13 | 21 | NM | 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 | 48 | 53 | -10.0% | 35 | 32 | 13 | 21 | NM | 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 | 465 | 385 | 21.0% | 0 | 0 | 423 | 341 | 42 | 44 | 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 | 315 | 292 | 7.9% | 0 | 0 | 315 | 292 | 0 | 0 | 0 | 0 |
| Georgia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 52 | 49 | 6.5% | 0 | 0 | 52 | 49 | 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 | 97 | 44 | 121.0% | 0 | 0 | 55 | 0 | 42 | 44 | 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 | 1 | 0 | 228.0% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 1 | 0 | 228.0% | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Texas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 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 | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 63 | 62 | 1.0% | 0 | 0 | 63 | 62 | 0 | 0 | 0 | 0 |
| California | 41 | 38 | 9.0% | 0 | 0 | 41 | 38 | 0 | 0 | 0 | 0 |
| Oregon | 10 | 9 | 2.6% | 0 | 0 | 10 | 9 | 0 | 0 | 0 | 0 |
| Washington | 12 | 15 | -20.0% | 0 | 0 | 12 | 15 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 40 | 37 | 8.8% | 0 | 0 | 0 | 0 | 40 | 37 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 40 | 37 | 8.8% | 0 | 0 | 0 | 0 | 40 | 37 | 0 | 0 |
| U.S. Total | 1,342 | 1,270 | 5.6% | 38 | 35 | 1,109 | 1,033 | 194 | 201 | 1 | 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.
Notes: See Glossary for definitions. Values are preliminary. 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 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through April 2018 and April 2017 (Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 1,150 | 1,168 | -1.6% | 0 | 0 | 1,084 | 1,101 | 65 | 67 | 0 | 0 |
| Connecticut | 375 | 404 | -7.4% | 0 | 0 | 375 | 404 | 0 | 0 | 0 | 0 |
| Maine | 103 | 104 | -0.7% | 0 | 0 | 38 | 37 | 65 | 67 | 0 | 0 |
| Massachusetts | 632 | 620 | 2.0% | 0 | 0 | 632 | 620 | 0 | 0 | 0 | 0 |
| New Hampshire | 40 | 40 | -0.3% | 0 | 0 | 40 | 40 | 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 | 1,709 | 1,699 | 0.6% | 0 | 0 | 1,363 | 1,356 | 346 | 343 | 0 | 0 |
| New Jersey | 475 | 459 | 3.5% | 0 | 0 | 357 | 345 | 118 | 114 | 0 | 0 |
| New York | 621 | 612 | 1.5% | 0 | 0 | 468 | 467 | 153 | 146 | 0 | 0 |
| Pennsylvania | 613 | 627 | -2.3% | 0 | 0 | 538 | 545 | 75 | 83 | 0 | 0 |
| East North Central | 73 | 75 | -2.0% | 10 | 12 | 0 | 0 | 63 | 63 | 0 | 0 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 6 | 5 | 24.0% | 0 | 0 | 0 | 0 | 6 | 5 | 0 | 0 |
| Michigan | 57 | 58 | -1.9% | 0 | 0 | 0 | 0 | 57 | 58 | 0 | 0 |
| Ohio | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 10 | 12 | -14.0% | 10 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 191 | 189 | 1.4% | 121 | 112 | 71 | 76 | 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 | 191 | 189 | 1.4% | 121 | 112 | 71 | 76 | 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 | 1,839 | 1,692 | 8.7% | 0 | 0 | 1,696 | 1,525 | 143 | 166 | 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 | 1,257 | 1,270 | -1.0% | 0 | 0 | 1,257 | 1,270 | 0 | 0 | 0 | 0 |
| Georgia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 206 | 189 | 8.9% | 0 | 0 | 206 | 189 | 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 | 376 | 233 | 62.0% | 0 | 0 | 233 | 66 | 143 | 166 | 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 | 3 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 3 | 0 | NM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Texas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 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 | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 241 | 248 | -3.1% | 0 | 0 | 241 | 248 | 0 | 0 | 0 | 0 |
| California | 152 | 157 | -3.2% | 0 | 0 | 152 | 157 | 0 | 0 | 0 | 0 |
| Oregon | 37 | 38 | -2.7% | 0 | 0 | 37 | 38 | 0 | 0 | 0 | 0 |
| Washington | 51 | 53 | -3.1% | 0 | 0 | 51 | 53 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 140 | 143 | -1.9% | 0 | 0 | 0 | 0 | 140 | 143 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 140 | 143 | -1.9% | 0 | 0 | 0 | 0 | 140 | 143 | 0 | 0 |
| U.S. Total | 5,347 | 5,213 | 2.6% | 131 | 124 | 4,455 | 4,308 | 757 | 781 | 3 | 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.
Notes: See Glossary for definitions. Values are preliminary. 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 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, April 2018 and April 2017 (Billion Btus)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 3,927 | 4,102 | -4.3% | 260 | 325 | 3,249 | 3,312 | 1 | 10 | 417 | 454 |
| Connecticut | 333 | NM | NM | 0 | 0 | 333 | NM | 0 | 0 | 0 | 0 |
| Maine | 1,724 | 1,856 | -7.1% | 0 | 0 | 1,306 | 1,393 | 0 | 9 | 417 | 454 |
| Massachusetts | 176 | NM | NM | 0 | 0 | 176 | NM | 0 | 0 | 0 | 0 |
| New Hampshire | 1,280 | 1,420 | -9.8% | 0 | 115 | 1,280 | 1,305 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 414 | 362 | 14.0% | 260 | 210 | NM | NM | 1 | 1 | 0 | 0 |
| Middle Atlantic | 1,115 | 1,074 | 3.8% | 0 | 0 | 577 | 541 | 0 | 0 | 538 | 533 |
| New Jersey | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York | 660 | 619 | 6.6% | 0 | 0 | 577 | 541 | 0 | 0 | 83 | 78 |
| Pennsylvania | 455 | 455 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0 | 455 | 455 |
| East North Central | 1,663 | 2,084 | -20.0% | 265 | 434 | 771 | 1,017 | 0 | 0 | 627 | 633 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 1,056 | 1,292 | -18.0% | 0 | 0 | 759 | 1,004 | 0 | 0 | 297 | 287 |
| Ohio | 101 | 106 | -3.9% | 0 | 0 | 12 | 12 | 0 | 0 | 89 | 93 |
| Wisconsin | 506 | 687 | -26.0% | 265 | 434 | 0 | 0 | 0 | 0 | 241 | 253 |
| West North Central | 849 | 861 | -1.5% | 153 | NM | 492 | 484 | 10 | 24 | 194 | 197 |
| Iowa | 0 | 0 | -100.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 838 | 838 | 0.1% | 153 | NM | 492 | 484 | 0 | 0 | 194 | 197 |
| Missouri | 10 | 23 | -56.0% | 0 | 0 | 0 | 0 | 10 | 23 | 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 | 9,081 | 9,873 | -8.0% | 1,569 | 1,777 | 2,422 | 2,951 | 5 | 0 | 5,085 | 5,145 |
| 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 | 1,524 | 1,991 | -23.0% | 247 | 0 | 544 | 1,260 | 0 | 0 | 734 | 731 |
| Georgia | 2,398 | 2,307 | 3.9% | 0 | 0 | 385 | 338 | 0 | 0 | 2,013 | 1,970 |
| Maryland | 61 | 50 | 23.0% | 0 | 0 | 0 | 0 | 5 | 0 | 56 | 50 |
| North Carolina | 1,367 | 1,080 | 27.0% | 0 | 0 | 806 | 645 | 0 | 0 | 561 | 435 |
| South Carolina | 1,438 | 1,431 | 0.5% | 154 | 149 | 514 | 453 | 0 | 0 | 770 | 829 |
| Virginia | 2,293 | 3,014 | -24.0% | 1,168 | 1,628 | 174 | NM | 0 | 0 | 950 | 1,131 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 2,829 | 3,011 | -6.0% | 0 | 0 | 192 | 197 | 0 | 0 | 2,637 | 2,814 |
| Alabama | 1,804 | 1,929 | -6.5% | 0 | 0 | 192 | 197 | 0 | 0 | 1,612 | 1,732 |
| Kentucky | 134 | 133 | 1.3% | 0 | 0 | 0 | 0 | 0 | 0 | 134 | 133 |
| Mississippi | 604 | 589 | 2.6% | 0 | 0 | 0 | 0 | 0 | 0 | 604 | 589 |
| Tennessee | 287 | 360 | -20.0% | 0 | 0 | 0 | 0 | 0 | 0 | 287 | 360 |
| West South Central | 2,333 | 2,514 | -7.2% | 0 | 0 | 3 | 161 | 0 | 0 | 2,330 | 2,353 |
| Arkansas | 583 | 568 | 2.6% | 0 | 0 | 0 | 0 | 0 | 0 | 583 | 568 |
| Louisiana | 1,228 | 1,286 | -4.5% | 0 | 0 | 0 | 0 | 0 | 0 | 1,228 | 1,286 |
| Oklahoma | 170 | 139 | 22.0% | 0 | 0 | 3 | 0 | 0 | 0 | 167 | 139 |
| Texas | 352 | 521 | -32.0% | 0 | 0 | 0 | 161 | 0 | 0 | 352 | 360 |
| Mountain | 533 | 514 | 3.8% | 0 | 0 | 364 | 362 | 0 | 0 | 169 | 152 |
| Arizona | 263 | NM | NM | 0 | 0 | 263 | NM | 0 | 0 | 0 | 0 |
| Colorado | 87 | 116 | -25.0% | 0 | 0 | 87 | 116 | 0 | 0 | 0 | 0 |
| Idaho | 163 | 151 | 8.3% | 0 | 0 | 14 | 19 | 0 | 0 | 149 | 132 |
| Montana | 20 | 20 | -1.7% | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| 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 | 4,752 | 5,029 | -5.5% | 358 | NM | 2,759 | 3,306 | 0 | 0 | 1,635 | 1,369 |
| California | 3,085 | 3,402 | -9.3% | 0 | 0 | 2,551 | 3,066 | 0 | 0 | 534 | 336 |
| Oregon | 537 | 576 | -6.8% | 0 | 0 | 208 | NM | 0 | 0 | 329 | 336 |
| Washington | 1,130 | 1,050 | 7.6% | 358 | NM | 0 | 0 | 0 | 0 | 773 | 697 |
| 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 | 27,083 | 29,061 | -6.8% | 2,605 | 3,047 | 10,829 | 12,331 | 16 | 34 | 13,633 | 13,650 |

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 preliminary. 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 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through April 2018 and April 2017 (Billion Btus)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 19,209 | 19,977 | -3.8% | 2,881 | 2,722 | 14,533 | 15,374 | 12 | 38 | 1,783 | 1,843 |
| Connecticut | 1,403 | 1,478 | -5.1% | 0 | 0 | 1,403 | 1,478 | 0 | 0 | 0 | 0 |
| Maine | 7,899 | 8,346 | -5.4% | 0 | 0 | 6,106 | 6,469 | 9 | 34 | 1,783 | 1,843 |
| Massachusetts | 693 | 719 | -3.6% | 0 | 0 | 693 | 719 | 0 | 0 | 0 | 0 |
| New Hampshire | 6,955 | 7,458 | -6.7% | 1,287 | 1,450 | 5,669 | 6,008 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 2,259 | 1,975 | 14.0% | 1,594 | 1,272 | 662 | 700 | 3 | 4 | 0 | 0 |
| Middle Atlantic | 4,509 | 4,447 | 1.4% | 0 | 0 | 2,283 | 2,191 | 0 | 0 | 2,226 | 2,256 |
| New Jersey | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York | 2,653 | 2,557 | 3.7% | 0 | 0 | 2,281 | 2,191 | 0 | 0 | 371 | 367 |
| Pennsylvania | 1,856 | 1,890 | -1.8% | 0 | 0 | 1 | 0 | 0 | 0 | 1,855 | 1,889 |
| East North Central | 8,417 | 8,711 | -3.4% | 1,729 | 1,802 | 4,045 | 4,375 | 0 | 0 | 2,643 | 2,535 |
| Illinois | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 5,231 | 5,457 | -4.1% | 0 | 0 | 3,998 | 4,323 | 0 | 0 | 1,234 | 1,134 |
| Ohio | 407 | 439 | -7.4% | 0 | 0 | 47 | 52 | 0 | 0 | 359 | 387 |
| Wisconsin | 2,779 | 2,816 | -1.3% | 1,729 | 1,802 | 0 | 0 | 0 | 0 | 1,050 | 1,014 |
| West North Central | 3,548 | 3,639 | -2.5% | 698 | 708 | 1,781 | 1,910 | 106 | 100 | 964 | 922 |
| Iowa | 1 | 1 | -45.0% | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Kansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 3,457 | 3,542 | -2.4% | 698 | 708 | 1,781 | 1,910 | 14 | 3 | 964 | 922 |
| Missouri | 91 | 96 | -5.6% | 0 | 0 | 0 | 0 | 91 | 96 | 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 | 41,567 | 40,982 | 1.4% | 8,052 | 7,654 | 12,166 | 12,216 | 40 | 27 | 21,309 | 21,085 |
| 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 | 6,981 | 7,001 | -0.3% | 769 | 0 | 3,225 | 3,992 | 0 | 0 | 2,986 | 3,009 |
| Georgia | 11,324 | 10,147 | 12.0% | 0 | 0 | 3,102 | 2,124 | 0 | 0 | 8,221 | 8,023 |
| Maryland | 230 | 240 | -4.1% | 0 | 0 | 0 | 0 | 40 | 27 | 191 | 213 |
| North Carolina | 5,141 | 4,966 | 3.5% | 0 | 0 | 2,785 | 2,905 | 0 | 0 | 2,356 | 2,061 |
| South Carolina | 6,026 | 6,121 | -1.6% | 659 | 627 | 2,056 | 2,112 | 0 | 0 | 3,311 | 3,383 |
| Virginia | 11,865 | 12,507 | -5.1% | 6,624 | 7,028 | 997 | 1,083 | 0 | 0 | 4,244 | 4,397 |
| West Virginia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 11,843 | 12,204 | -3.0% | 0 | 0 | 806 | 811 | 0 | 0 | 11,037 | 11,393 |
| Alabama | 7,759 | 7,889 | -1.6% | 0 | 0 | 806 | 811 | 0 | 0 | 6,954 | 7,078 |
| Kentucky | 553 | 535 | 3.3% | 0 | 0 | 0 | 0 | 0 | 0 | 553 | 535 |
| Mississippi | 2,142 | 2,318 | -7.6% | 0 | 0 | 0 | 0 | 0 | 0 | 2,142 | 2,318 |
| Tennessee | 1,388 | 1,462 | -5.1% | 0 | 0 | 0 | 0 | 0 | 0 | 1,388 | 1,462 |
| West South Central | 9,851 | 10,073 | -2.2% | 0 | 0 | 416 | 615 | 0 | 0 | 9,435 | 9,458 |
| Arkansas | 2,333 | 2,263 | 3.1% | 0 | 0 | 0 | 0 | 0 | 0 | 2,333 | 2,263 |
| Louisiana | 4,984 | 5,092 | -2.1% | 0 | 0 | 0 | 0 | 0 | 0 | 4,984 | 5,092 |
| Oklahoma | 647 | 626 | 3.4% | 0 | 0 | 3 | 0 | 0 | 0 | 644 | 626 |
| Texas | 1,886 | 2,092 | -9.8% | 0 | 0 | 413 | 615 | 0 | 0 | 1,473 | 1,477 |
| Mountain | 2,130 | 2,204 | -3.4% | 0 | 0 | 1,478 | 1,605 | 0 | 0 | 652 | 599 |
| Arizona | 1,043 | 1,091 | -4.4% | 0 | 0 | 1,043 | 1,091 | 0 | 0 | 0 | 0 |
| Colorado | 346 | 440 | -21.0% | 0 | 0 | 346 | 440 | 0 | 0 | 0 | 0 |
| Idaho | 661 | 591 | 12.0% | 0 | 0 | 89 | 73 | 0 | 0 | 573 | 517 |
| Montana | 79 | 81 | -2.9% | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 81 |
| 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 | 20,680 | 21,174 | -2.3% | 1,552 | 1,641 | 12,760 | 13,791 | 0 | 0 | 6,367 | 5,741 |
| California | 13,584 | 14,155 | -4.0% | 0 | 0 | 11,758 | 12,719 | 0 | 0 | 1,826 | 1,436 |
| Oregon | 2,389 | 2,410 | -0.9% | 0 | 0 | 1,002 | 1,072 | 0 | 0 | 1,387 | 1,338 |
| Washington | 4,707 | 4,608 | 2.1% | 1,552 | 1,641 | 0 | 0 | 0 | 0 | 3,155 | 2,967 |
| 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 | 121,754 | 123,412 | -1.3% | 14,912 | 14,527 | 50,267 | 52,889 | 157 | 165 | 56,418 | 55,831 |

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 preliminary. 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 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2008 - April 2018**

| | Electric Power Sector | | | Electric Utilities | | | Independent Power Producers | | |
|---|---|---|---|---|---|---|---|---|---|
| Period | 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 | | | | | | | | | |
| 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 |
| 2014 | 151,548 | 33,505 | 827 | 116,684 | 22,487 | 686 | 34,864 | 11,018 | 142 |
| 2015 | 195,548 | 32,884 | 1,340 | 153,226 | 21,443 | 1,163 | 42,322 | 11,441 | 177 |
| 2016 | 162,009 | 31,839 | 845 | 130,885 | 21,013 | 603 | 31,124 | 10,827 | 241 |
| 2017 | 137,155 | 28,723 | 1,113 | 114,378 | 19,826 | 700 | 22,777 | 8,897 | 414 |
| Year 2016, End of Month Stocks | | | | | | | | | |
| January | 187,203 | 32,307 | 1,320 | 146,300 | 20,894 | 1,089 | 40,903 | 11,412 | 231 |
| February | 187,064 | 31,644 | 1,323 | 145,895 | 20,651 | 1,064 | 41,168 | 10,994 | 259 |
| March | 191,553 | 31,569 | 1,240 | 148,648 | 20,642 | 974 | 42,905 | 10,927 | 266 |
| April | 193,185 | 31,788 | 1,181 | 150,859 | 20,926 | 901 | 42,327 | 10,863 | 280 |
| May | 192,417 | 32,139 | 1,071 | 150,639 | 21,202 | 826 | 41,778 | 10,936 | 246 |
| June | 182,086 | 31,992 | 905 | 144,309 | 21,133 | 689 | 37,777 | 10,859 | 216 |
| July | 168,119 | 31,606 | 858 | 134,344 | 20,906 | 678 | 33,775 | 10,700 | 180 |
| August | 158,908 | 31,565 | 780 | 128,256 | 20,846 | 589 | 30,652 | 10,719 | 191 |
| Sept | 156,567 | 31,637 | 768 | 127,532 | 20,924 | 566 | 29,035 | 10,713 | 201 |
| October | 160,932 | 31,831 | 813 | 131,510 | 21,017 | 606 | 29,422 | 10,813 | 207 |
| November | 170,277 | 32,503 | 833 | 138,091 | 21,583 | 606 | 32,185 | 10,921 | 227 |
| December | 162,009 | 31,839 | 845 | 130,885 | 21,013 | 603 | 31,124 | 10,827 | 241 |
| Year 2017, End of Month Stocks | | | | | | | | | |
| January | 156,175 | 31,468 | 794 | 125,187 | 20,714 | 542 | 30,988 | 10,754 | 252 |
| February | 160,448 | 31,094 | 822 | 128,010 | 20,442 | 551 | 32,438 | 10,652 | 271 |
| March | 161,690 | 31,622 | 855 | 128,574 | 21,144 | 566 | 33,116 | 10,478 | 289 |
| April | 163,723 | 31,325 | 933 | 130,307 | 21,030 | 630 | 33,416 | 10,295 | 303 |
| May | 162,309 | 30,880 | 881 | 129,141 | 20,595 | 570 | 33,168 | 10,286 | 312 |
| June | 157,719 | 30,549 | 868 | 126,382 | 20,545 | 542 | 31,337 | 10,004 | 325 |
| July | 145,376 | 30,469 | 875 | 117,432 | 20,550 | 552 | 27,945 | 9,920 | 323 |
| August | 141,720 | 30,072 | 919 | 114,139 | 20,227 | 576 | 27,581 | 9,845 | 343 |
| Sept | 139,315 | 29,647 | 988 | 113,121 | 20,053 | 632 | 26,194 | 9,594 | 357 |
| October | 141,204 | 29,646 | 1,058 | 114,807 | 20,003 | 690 | 26,397 | 9,643 | 368 |
| November | 143,210 | 29,671 | 1,089 | 117,650 | 20,092 | 685 | 25,560 | 9,579 | 405 |
| December | 137,155 | 28,723 | 1,113 | 114,378 | 19,826 | 700 | 22,777 | 8,897 | 414 |
| Year 2018, End of Month Stocks | | | | | | | | | |
| January | 123,499 | 26,377 | 999 | 103,884 | 18,324 | 587 | 19,614 | 8,052 | 412 |
| February | 120,866 | 27,112 | 1,001 | 101,757 | 18,782 | 570 | 19,109 | 8,330 | 431 |
| March | 126,398 | 27,067 | 1,061 | 106,658 | 18,895 | 621 | 19,740 | 8,171 | 440 |
| April | 128,980 | 26,925 | 1,106 | 108,171 | 18,893 | 655 | 20,809 | 8,032 | 451 |

Notes: See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
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 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke:**
**Electric Power Sector, by State, April 2018 and 2017**

| Census Division and State | Coal (Thousand Tons) | | | Petroleum Liquids (Thousand Barrels) | | | Petroleum Coke (Thousand Tons) | | |
|---|---|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | Percentage Change |
| New England | 633 | 1,131 | -44.1% | 3,089 | 4,273 | -27.7% | 0 | 0 | -- |
| Connecticut | W | W | W | 1,133 | 1,522 | -25.5% | 0 | 0 | -- |
| Maine | 0 | 0 | -- | 221 | 507 | -56.3% | 0 | 0 | -- |
| Massachusetts | W | W | W | 1,312 | 1,648 | -20.4% | 0 | 0 | -- |
| New Hampshire | W | W | W | 245 | 355 | -31.0% | 0 | 0 | -- |
| Rhode Island | W | W | W | 138 | 150 | -7.7% | 0 | 0 | -- |
| Vermont | 0 | 0 | -- | 40 | 92 | -56.6% | 0 | 0 | -- |
| Middle Atlantic | 3,142 | 4,640 | -32.3% | 4,496 | 5,630 | -20.1% | 0 | 0 | -- |
| New Jersey | 148 | 624 | -76.3% | 609 | 649 | -6.2% | 0 | 0 | -- |
| New York | W | W | W | 2,922 | 3,695 | -20.9% | 0 | 0 | -- |
| Pennsylvania | W | W | W | 966 | 1,286 | -24.9% | 0 | 0 | -- |
| East North Central | 24,094 | 32,721 | -26.4% | 1,057 | 1,108 | -4.6% | 532 | 342 | 55.4% |
| Illinois | 6,177 | 7,707 | -19.8% | 57 | 77 | -25.3% | 0 | 0 | -- |
| Indiana | 7,668 | 9,278 | -17.4% | 100 | 104 | -3.8% | W | W | W |
| Michigan | 3,425 | 3,950 | -13.3% | 321 | 352 | -8.7% | W | W | W |
| Ohio | 3,497 | 7,185 | -51.3% | 379 | 368 | 3.1% | W | W | W |
| Wisconsin | 3,326 | 4,600 | -27.7% | 199 | 207 | -4.0% | W | W | W |
| West North Central | 25,078 | 30,935 | -18.9% | 761 | 939 | -19.0% | 0 | 0 | -- |
| Iowa | 5,976 | 7,972 | -25.0% | 94 | 133 | -29.1% | 0 | 0 | -- |
| Kansas | 3,592 | 4,968 | -27.7% | 101 | 120 | -15.4% | 0 | 0 | -- |
| Minnesota | 2,852 | 4,020 | -29.0% | 92 | 125 | -26.6% | 0 | 0 | -- |
| Missouri | 8,190 | 9,073 | -9.7% | 319 | 359 | -11.3% | 0 | 0 | -- |
| Nebraska | 2,682 | 3,355 | -20.0% | 93 | 117 | -20.7% | 0 | 0 | -- |
| North Dakota | W | W | W | 24 | 33 | -27.4% | 0 | 0 | -- |
| South Dakota | W | W | W | 38 | 52 | -26.7% | 0 | 0 | -- |
| South Atlantic | 22,607 | 28,852 | -21.6% | 11,110 | 12,550 | -11.5% | W | W | W |
| Delaware | W | W | W | 361 | 402 | -10.4% | 0 | 0 | -- |
| District of Columbia | 0 | 0 | -- | 0 | 0 | -- | 0 | 0 | -- |
| Florida | 3,878 | 4,529 | -14.4% | 5,121 | 5,657 | -9.5% | W | 87 | W |
| Georgia | 5,124 | 5,733 | -10.6% | 748 | 810 | -7.7% | 0 | 0 | -- |
| Maryland | 1,030 | 2,269 | -54.6% | 574 | 910 | -36.9% | 0 | 0 | -- |
| North Carolina | 4,017 | 5,515 | -27.2% | 1,182 | 1,259 | -6.1% | 0 | 0 | -- |
| South Carolina | 3,591 | 4,927 | -27.1% | 655 | 705 | -7.0% | 0 | 0 | -- |
| Virginia | 822 | W | W | 2,344 | 2,664 | -12.0% | 0 | 0 | -- |
| West Virginia | W | 4,285 | W | 125 | 143 | -12.5% | W | W | W |
| East South Central | 12,288 | 16,471 | -25.4% | 1,782 | 1,961 | -9.1% | W | W | W |
| Alabama | 3,030 | 3,408 | -11.1% | 315 | 333 | -5.4% | 0 | 0 | -- |
| Kentucky | 5,820 | 8,943 | -34.9% | 251 | 241 | 4.1% | W | W | W |
| Mississippi | 1,090 | 986 | 10.6% | 548 | 565 | -3.0% | 0 | 0 | -- |
| Tennessee | 2,347 | 3,134 | -25.1% | 667 | 821 | -18.8% | 0 | 0 | -- |
| West South Central | 20,052 | 26,304 | -23.8% | 1,639 | 1,758 | -6.8% | W | W | W |
| Arkansas | 3,170 | 3,015 | 5.1% | 165 | 186 | -11.3% | 0 | 0 | -- |
| Louisiana | 2,696 | 3,009 | -10.4% | 366 | 393 | -6.8% | W | W | W |
| Oklahoma | 4,083 | 4,310 | -5.3% | 105 | 104 | 1.2% | 0 | 0 | -- |
| Texas | 10,104 | 15,969 | -36.7% | 1,002 | 1,075 | -6.8% | 0 | 0 | -- |
| Mountain | 19,747 | 21,330 | -7.4% | 386 | 390 | -0.9% | W | W | W |
| Arizona | 3,473 | 3,920 | -11.4% | 138 | 131 | 5.3% | 0 | 0 | -- |
| Colorado | 4,561 | 4,411 | 3.4% | 133 | 123 | 8.1% | 0 | 0 | -- |
| Idaho | 0 | 0 | -- | 0 | 0 | -9.1% | 0 | 0 | -- |
| Montana | W | W | W | 16 | 19 | -16.9% | W | W | W |
| Nevada | W | W | W | 3 | 6 | -51.9% | 0 | 0 | -- |
| New Mexico | W | W | W | 26 | 35 | -25.0% | 0 | 0 | -- |
| Utah | 4,718 | 5,575 | -15.4% | 37 | 42 | -12.2% | 0 | 0 | -- |
| Wyoming | 4,456 | 4,849 | -8.1% | 32 | 32 | 0.1% | 0 | 0 | -- |
| Pacific Contiguous | W | W | W | 316 | 347 | -8.9% | 0 | 0 | -- |
| California | 0 | 0 | -- | 152 | 175 | -12.9% | 0 | 0 | -- |
| Oregon | W | W | W | 64 | 72 | -10.1% | 0 | 0 | -- |
| Washington | W | W | W | 99 | 100 | -1.0% | 0 | 0 | -- |
| Pacific Noncontiguous | W | W | W | 2,289 | 2,370 | -3.4% | 0 | 0 | -- |
| Alaska | 0 | W | W | 67 | 206 | -67.4% | 0 | 0 | -- |
| Hawaii | W | W | W | 2,222 | 2,164 | 2.7% | 0 | 0 | -- |
| U.S. Total | 128,980 | 163,723 | -21.2% | 26,925 | 31,325 | -14.0% | 1,106 | 933 | 18.5% |

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.
Notes: See Glossary for definitions. Values are preliminary. 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 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, April 2018 and 2017

| | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| **Census Division** | **April 2018** | **April 2017** | **Percentage Change** | **April 2018** | **April 2017** | **April 2018** | **April 2017** |
| **Coal (Thousand Tons)** | | | | | | | |
| New England | 633 | 1,131 | -44.1% | W | W | W | W |
| Middle Atlantic | 3,142 | 4,640 | -32.3% | W | 0 | W | 4,640 |
| East North Central | 24,094 | 32,721 | -26.4% | 15,944 | 20,109 | 8,151 | 12,612 |
| West North Central | 25,078 | 30,935 | -18.9% | 25,078 | 30,935 | 0 | 0 |
| South Atlantic | 22,607 | 28,852 | -21.6% | 20,639 | 25,613 | 1,968 | 3,240 |
| East South Central | 12,288 | 16,471 | -25.4% | 12,288 | 16,471 | 0 | 0 |
| West South Central | 20,052 | 26,304 | -23.8% | 14,513 | 15,696 | 5,539 | 10,608 |
| Mountain | 19,747 | 21,330 | -7.4% | W | W | W | W |
| Pacific Contiguous | W | W | W | W | W | W | W |
| Pacific Noncontiguous | W | W | W | 0 | W | W | W |
| **U.S. Total** | **128,980** | **163,723** | **-21.2%** | **108,171** | **130,307** | **20,809** | **33,416** |
| **Petroleum Liquids (Thousand Barrels)** | | | | | | | |
| New England | 3,089 | 4,273 | -27.7% | 443 | 704 | 2,646 | 3,568 |
| Middle Atlantic | 4,496 | 5,630 | -20.1% | 1,726 | 2,296 | 2,770 | 3,334 |
| East North Central | 1,057 | 1,108 | -4.6% | 720 | 801 | 336 | 307 |
| West North Central | 761 | 939 | -19.0% | 751 | 915 | 10 | 24 |
| South Atlantic | 11,110 | 12,550 | -11.5% | 9,440 | 10,142 | 1,670 | 2,408 |
| East South Central | 1,782 | 1,961 | -9.1% | 1,708 | 1,888 | 74 | 73 |
| West South Central | 1,639 | 1,758 | -6.8% | 1,277 | 1,350 | 362 | 408 |
| Mountain | 386 | 390 | -0.9% | 357 | 356 | 29 | 34 |
| Pacific Contiguous | 316 | 347 | -8.9% | 213 | 237 | 103 | 110 |
| Pacific Noncontiguous | 2,289 | 2,370 | -3.4% | 2,257 | 2,342 | 33 | 29 |
| **U.S. Total** | **26,925** | **31,325** | **-14.0%** | **18,893** | **21,030** | **8,032** | **10,295** |
| **Petroleum Coke (Thousand Tons)** | | | | | | | |
| New England | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| Middle Atlantic | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| East North Central | 532 | 342 | 55.4% | W | W | W | W |
| West North Central | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| South Atlantic | W | W | W | W | 87 | W | W |
| East South Central | W | W | W | W | W | 0 | 0 |
| West South Central | W | W | W | W | W | 0 | 0 |
| Mountain | W | W | W | 0 | 0 | W | W |
| Pacific Contiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 |
| **U.S. Total** | **1,106** | **933** | **18.5%** | **W** | **W** | **W** | **W** |

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values are preliminary. 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 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2008 - April 2018

| | Electric Power Sector | | | |
|---|---|---|---|---|
| Period | Bituminous Coal | Subbituminous Coal | Lignite Coal | Total |
| End of Year Stocks | | | | |
| 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 |
| 2014 | 72,771 | 72,552 | 6,225 | 151,548 |
| 2015 | 82,004 | 108,614 | 4,931 | 195,548 |
| 2016 | 67,241 | 90,376 | 4,393 | 162,009 |
| 2017 | 55,941 | 77,542 | 3,672 | 137,155 |
| Year 2016, End of Month Stocks | | | | |
| January | 76,919 | 105,641 | 4,643 | 187,203 |
| February | 76,373 | 106,153 | 4,537 | 187,064 |
| March | 79,664 | 107,076 | 4,813 | 191,553 |
| April | 81,390 | 106,720 | 5,075 | 193,185 |
| May | 82,185 | 105,068 | 5,164 | 192,417 |
| June | 78,216 | 98,822 | 5,048 | 182,086 |
| July | 71,287 | 92,104 | 4,727 | 168,119 |
| August | 67,462 | 87,040 | 4,406 | 158,908 |
| Sept | 65,962 | 86,411 | 4,194 | 156,567 |
| October | 67,250 | 89,666 | 4,016 | 160,932 |
| November | 70,537 | 95,428 | 4,313 | 170,277 |
| December | 67,241 | 90,376 | 4,393 | 162,009 |
| Year 2017, End of Month Stocks | | | | |
| January | 65,806 | 86,034 | 4,335 | 156,175 |
| February | 67,754 | 88,270 | 4,424 | 160,448 |
| March | 67,740 | 89,299 | 4,651 | 161,690 |
| April | 68,129 | 90,588 | 5,005 | 163,723 |
| May | 68,251 | 88,854 | 5,204 | 162,309 |
| June | 66,475 | 86,543 | 4,701 | 157,719 |
| July | 60,498 | 80,598 | 4,281 | 145,376 |
| August | 59,134 | 77,615 | 4,972 | 141,720 |
| Sept | 58,380 | 76,990 | 3,945 | 139,315 |
| October | 59,036 | 78,648 | 3,519 | 141,204 |
| November | 59,342 | 79,787 | 4,081 | 143,210 |
| December | 55,941 | 77,542 | 3,672 | 137,155 |
| Year 2018, End of Month Stocks | | | | |
| January | 48,446 | 72,024 | 3,028 | 123,499 |
| February | 48,199 | 69,758 | 2,909 | 120,866 |
| March | 49,556 | 73,629 | 3,213 | 126,398 |
| April | 51,011 | 74,644 | 3,324 | 128,980 |

Notes: See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. 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 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2008 - April 2018**

| | Coal | | | | | | Petroleum Liquids | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | |
| Period | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | Average Sulfur Percent by Weight | Percentage of Consumption |
| Annual Totals | | | | | | | | | | | | |
| 2008 | 21,280,258 | 1,069,709 | 2.07 | 41.14 | 0.97 | 100.5 | 375,684 | 61,139 | 15.52 | 95.38 | 0.61 | 99.6 |
| 2009 | 19,437,966 | 981,477 | 2.21 | 43.74 | 1.01 | 102.8 | 330,043 | 54,181 | 10.25 | 62.47 | 0.54 | 104.8 |
| 2010 | 19,289,661 | 979,918 | 2.27 | 44.64 | 1.16 | 97.9 | 275,058 | 45,472 | 14.02 | 84.80 | 0.51 | 101.1 |
| 2011 | 18,675,843 | 956,538 | 2.39 | 46.65 | 1.19 | 100.0 | 216,752 | 36,158 | 19.94 | 119.54 | 0.60 | 116.1 |
| 2012 | 16,265,578 | 841,183 | 2.38 | 46.09 | 1.25 | 99.5 | 116,937 | 19,464 | 21.85 | 131.28 | 0.51 | 75.7 |
| 2013 | 15,906,809 | 823,222 | 2.34 | 45.33 | 1.29 | 93.7 | 123,964 | 20,413 | 20.56 | 124.90 | 0.46 | 76.5 |
| 2014 | 16,594,722 | 854,560 | 2.37 | 45.96 | 1.32 | 98.0 | 172,421 | 28,514 | 19.87 | 120.26 | 0.46 | 82.3 |
| 2015 | 15,086,208 | 782,929 | 2.22 | 42.86 | 1.29 | 103.5 | 147,647 | 24,320 | 11.49 | 69.79 | 0.48 | 75.8 |
| 2016 | 12,516,272 | 650,770 | 2.11 | 40.64 | 1.34 | 93.8 | 101,810 | 16,807 | 9.39 | 56.89 | 0.49 | 68.1 |
| 2017 | 12,142,749 | 634,118 | 2.08 | 39.75 | 1.29 | 93.4 | 94,007 | 15,619 | 11.82 | 71.15 | 0.49 | 65.4 |
| Year 2016 | | | | | | | | | | | | |
| January | 1,035,315 | 54,397 | 2.12 | 40.35 | 1.32 | 85.5 | 9,096 | 1,519 | 7.96 | 47.76 | 0.48 | 56.2 |
| February | 981,062 | 50,919 | 2.11 | 40.62 | 1.40 | 97.9 | 8,023 | 1,323 | 7.00 | 42.51 | 0.47 | 52.0 |
| March | 896,983 | 45,720 | 2.17 | 42.66 | 1.46 | 110.7 | 6,912 | 1,140 | 6.92 | 41.99 | 0.45 | 68.2 |
| April | 807,001 | 41,015 | 2.16 | 42.44 | 1.45 | 101.8 | 8,592 | 1,414 | 8.37 | 50.85 | 0.42 | 88.7 |
| May | 871,890 | 44,729 | 2.16 | 42.13 | 1.44 | 96.6 | 9,231 | 1,536 | 9.82 | 59.07 | 0.45 | 82.6 |
| June | 1,022,903 | 53,300 | 2.10 | 40.25 | 1.35 | 82.6 | 7,612 | 1,262 | 10.41 | 62.76 | 0.50 | 67.3 |
| July | 1,155,747 | 60,545 | 2.11 | 40.30 | 1.28 | 80.1 | 9,030 | 1,466 | 11.83 | 72.83 | 0.51 | 59.3 |
| August | 1,254,473 | 65,150 | 2.11 | 40.61 | 1.32 | 86.6 | 9,118 | 1,492 | 9.46 | 57.81 | 0.51 | 62.6 |
| Sept | 1,156,705 | 60,441 | 2.12 | 40.58 | 1.30 | 95.0 | 8,154 | 1,342 | 9.40 | 57.14 | 0.51 | 76.1 |
| October | 1,141,983 | 59,814 | 2.07 | 39.59 | 1.28 | 107.2 | 8,387 | 1,390 | 10.01 | 60.48 | 0.54 | 77.1 |
| November | 1,097,110 | 57,377 | 2.08 | 39.83 | 1.29 | 116.3 | 9,715 | 1,599 | 10.09 | 61.31 | 0.50 | 87.0 |
| December | 1,095,100 | 57,362 | 2.08 | 39.64 | 1.32 | 86.4 | 7,939 | 1,323 | 10.78 | 64.72 | 0.48 | 60.9 |
| Year 2017 | | | | | | | | | | | | |
| January | 1,099,948 | 57,463 | 2.09 | 40.08 | 1.26 | 88.5 | 9,304 | 1,546 | 11.91 | 71.72 | 0.46 | 70.8 |
| February | 997,916 | 52,098 | 2.07 | 39.58 | 1.30 | 106.1 | 6,122 | 1,015 | 11.61 | 70.06 | 0.49 | 59.5 |
| March | 966,998 | 50,174 | 2.08 | 40.17 | 1.35 | 100.2 | 11,990 | 2,018 | 11.62 | 69.01 | 0.54 | 111.4 |
| April | 893,611 | 46,168 | 2.11 | 40.85 | 1.34 | 101.6 | 6,223 | 1,033 | 11.59 | 69.85 | 0.48 | 62.4 |
| May | 948,234 | 49,206 | 2.13 | 41.01 | 1.33 | 94.5 | 6,485 | 1,082 | W | W | 0.48 | 56.7 |
| June | 1,032,209 | 53,498 | 2.11 | 40.71 | 1.31 | 89.0 | 7,209 | 1,196 | W | W | 0.47 | 63.4 |
| July | 1,084,862 | 56,876 | 2.09 | 39.82 | 1.22 | 80.1 | 6,490 | 1,086 | W | W | 0.48 | 54.9 |
| August | 1,174,972 | 61,268 | 2.08 | 39.85 | 1.29 | 91.4 | 6,872 | 1,137 | W | W | 0.47 | 61.1 |
| Sept | 1,005,155 | 52,845 | 2.03 | 38.55 | 1.24 | 94.6 | 6,394 | 1,061 | W | W | 0.49 | 57.6 |
| October | 990,301 | 51,848 | 2.03 | 38.86 | 1.27 | 100.9 | 7,328 | 1,212 | 11.87 | 71.73 | 0.52 | 64.7 |
| November | 976,444 | 51,520 | 2.04 | 38.67 | 1.26 | 98.7 | 9,313 | 1,541 | 12.29 | 74.29 | 0.47 | 85.9 |
| December | 972,098 | 51,155 | 2.05 | 38.91 | 1.27 | 85.8 | 10,277 | 1,693 | 13.95 | 84.69 | 0.47 | 49.9 |
| Year 2018 | | | | | | | | | | | | |
| January | 951,773 | 50,275 | 2.07 | 39.17 | 1.24 | 76.2 | 29,698 | 4,948 | 13.68 | 82.50 | 0.48 | 51.4 |
| February | 850,365 | 44,662 | 2.07 | 39.43 | 1.26 | 95.0 | 10,931 | 1,797 | 12.60 | 76.83 | 0.47 | 117.8 |
| March | 940,506 | 48,770 | 2.04 | 39.42 | 1.33 | 106.7 | 7,265 | 1,210 | W | W | 0.42 | 76.8 |
| April | 819,193 | 42,660 | 2.07 | 39.76 | 1.32 | 102.2 | 6,190 | 1,020 | 13.71 | 83.21 | 0.41 | 61.5 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 3,720,362 | 192,051 | 2.14 | 41.42 | 1.40 | 97.4 | 32,623 | 5,396 | 7.61 | 46.06 | 0.45 | 63.4 |
| 2017 | 3,958,473 | 205,902 | 2.09 | 40.15 | 1.31 | 98.3 | 33,639 | 5,612 | 11.69 | 70.10 | 0.50 | 76.3 |
| 2018 | 3,561,838 | 186,367 | 2.06 | 39.43 | 1.29 | 93.0 | 54,084 | 8,975 | 13.42 | 81.13 | 0.46 | 62.4 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 12,754,384 | 664,621 | 2.10 | 40.27 | 1.32 | 94.1 | 102,826 | 17,023 | 10.70 | 64.67 | 0.50 | 72.4 |
| 2018 | 11,746,114 | 614,583 | 2.07 | 39.52 | 1.28 | 91.8 | 114,452 | 18,982 | W | W | 0.47 | 61.4 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been 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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2008 - April 2018 (continued)**

| | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| Period | (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 | | | | | | | | | | | | |
| 2008 | 199,724 | 7,040 | 2.11 | 59.72 | 4.98 | 111.5 | 8,089,467 | 7,879,046 | 9.01 | 9.26 | 102.5 | 4.12 |
| 2009 | 197,921 | 6,954 | 1.61 | 45.89 | 4.63 | 119.3 | 8,319,329 | 8,118,550 | 4.74 | 4.86 | 102.3 | 3.04 |
| 2010 | 169,508 | 5,963 | 2.28 | 64.85 | 4.79 | 98.5 | 8,867,396 | 8,673,070 | 5.09 | 5.20 | 102.0 | 3.26 |
| 2011 | 171,100 | 5,980 | 3.03 | 86.78 | 5.01 | 98.2 | 9,250,652 | 9,056,164 | 4.72 | 4.83 | 103.8 | 3.29 |
| 2012 | 119,667 | 4,180 | 2.24 | 64.14 | 5.55 | 83.3 | 9,746,691 | 9,531,389 | 3.42 | 3.50 | 91.9 | 2.83 |
| 2013 | 132,474 | 4,660 | 2.18 | 61.95 | 5.41 | 73.5 | 8,721,114 | 8,503,424 | 4.33 | 4.44 | 89.7 | 3.09 |
| 2014 | 147,310 | 5,195 | 1.98 | 56.23 | 5.56 | 91.2 | 8,679,286 | 8,431,423 | 5.00 | 5.14 | 89.6 | 3.31 |
| 2015 | 138,668 | 4,897 | 1.84 | 52.11 | 5.25 | 94.4 | 10,173,502 | 9,842,581 | 3.23 | 3.34 | 89.9 | 2.65 |
| 2016 | 116,942 | 4,166 | 1.65 | 46.30 | 5.40 | 77.9 | 10,619,105 | 10,271,180 | 2.87 | 2.97 | 90.7 | 2.47 |
| 2017 | 92,837 | 3,309 | W | W | 5.56 | 77.6 | 8,320,427 | 8,050,520 | 3.39 | 3.51 | 76.0 | W |
| Year 2016 | | | | | | | | | | | | |
| January | 9,640 | 341 | 1.38 | 38.93 | 5.68 | 79.8 | 826,179 | 798,251 | 3.02 | 3.13 | 89.9 | 2.52 |
| February | 11,273 | 408 | 1.30 | 35.80 | 5.53 | 96.1 | 736,278 | 711,506 | 2.70 | 2.79 | 89.6 | 2.36 |
| March | 10,313 | 363 | 1.41 | 40.14 | 5.33 | 81.1 | 797,607 | 771,918 | 2.23 | 2.30 | 90.4 | 2.21 |
| April | 10,308 | 369 | 1.35 | 37.75 | 5.56 | 81.0 | 773,337 | 748,523 | 2.42 | 2.50 | 90.9 | 2.31 |
| May | 8,554 | 307 | 1.32 | 36.76 | 5.35 | 65.8 | 857,644 | 830,896 | 2.39 | 2.47 | 91.1 | 2.31 |
| June | 6,895 | 240 | 1.41 | 40.48 | 4.67 | 50.1 | 1,020,410 | 988,673 | 2.67 | 2.75 | 91.4 | 2.39 |
| July | 10,032 | 355 | 1.47 | 41.45 | 5.14 | 70.8 | 1,189,145 | 1,151,122 | 2.97 | 3.07 | 91.3 | 2.55 |
| August | 11,033 | 398 | 1.75 | 48.48 | 5.42 | 76.5 | 1,205,876 | 1,163,920 | 2.95 | 3.06 | 91.4 | 2.52 |
| Sept | 10,741 | 381 | 2.07 | 58.30 | 5.17 | 84.6 | 968,648 | 935,630 | 3.07 | 3.18 | 91.1 | 2.55 |
| October | 8,844 | 317 | 1.98 | 55.43 | 5.69 | 92.5 | 795,915 | 770,111 | 3.13 | 3.23 | 90.3 | 2.51 |
| November | 9,365 | 333 | 2.26 | 63.59 | 5.69 | 82.0 | 718,522 | 695,273 | 3.02 | 3.12 | 90.4 | 2.47 |
| December | 9,945 | 355 | 2.07 | 57.94 | 5.43 | 82.3 | 729,545 | 705,358 | 3.96 | 4.10 | 89.9 | 2.82 |
| Year 2017 | | | | | | | | | | | | |
| January | 7,058 | 251 | 2.14 | 60.16 | 5.67 | 58.6 | 605,951 | 585,551 | 4.13 | 4.28 | 76.5 | 2.82 |
| February | 7,593 | 271 | 2.00 | 56.03 | 5.85 | 83.2 | 532,100 | 514,989 | 3.58 | 3.70 | 77.4 | 2.60 |
| March | 8,628 | 309 | 2.06 | 57.51 | 5.29 | 86.5 | 616,876 | 597,207 | 3.36 | 3.47 | 75.4 | 2.62 |
| April | 5,835 | 208 | 2.00 | 55.96 | 5.34 | 93.7 | 576,199 | 557,617 | 3.38 | 3.49 | 76.3 | 2.62 |
| May | 6,776 | 242 | 2.05 | 57.46 | 5.57 | 61.1 | 646,012 | 625,854 | 3.49 | 3.60 | 76.9 | W |
| June | 8,657 | 308 | W | W | 5.55 | 71.2 | 762,486 | 737,993 | 3.30 | 3.41 | 76.5 | W |
| July | 8,498 | 302 | W | W | 5.50 | 73.3 | 928,993 | 898,085 | 3.22 | 3.33 | 75.4 | W |
| August | 7,972 | 284 | W | W | 5.47 | 77.5 | 900,262 | 870,598 | 3.16 | 3.27 | 75.9 | W |
| Sept | 7,915 | 284 | W | W | 5.43 | 84.2 | 759,416 | 733,714 | 3.20 | 3.31 | 75.6 | W |
| October | 8,347 | 297 | W | W | 5.61 | 98.3 | 692,139 | 670,324 | 3.16 | 3.27 | 75.4 | W |
| November | 7,469 | 266 | W | W | 5.67 | 78.7 | 600,304 | 581,428 | 3.36 | 3.47 | 75.1 | W |
| December | 8,088 | 287 | 2.17 | 60.99 | 5.74 | 82.6 | 699,688 | 677,158 | 3.63 | 3.75 | 75.9 | 2.75 |
| Year 2018 | | | | | | | | | | | | |
| January | 7,009 | 248 | 2.38 | 67.41 | 5.31 | 60.1 | 778,041 | 753,163 | 5.03 | 5.19 | 82.0 | 3.50 |
| February | 7,769 | 277 | 2.43 | 68.09 | 5.49 | 83.0 | 688,537 | 667,090 | 3.61 | 3.72 | 85.6 | 2.79 |
| March | 7,841 | 281 | 2.54 | 70.89 | 5.54 | 99.3 | 748,917 | 724,656 | 3.18 | 3.29 | 84.6 | W |
| April | 6,564 | 232 | 2.56 | 72.38 | 6.09 | 78.4 | 705,836 | 684,139 | 3.13 | 3.23 | 83.5 | 2.58 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 41,534 | 1,481 | 1.36 | 38.07 | 5.52 | 84.4 | 3,133,401 | 3,030,198 | 2.60 | 2.68 | 90.2 | 2.36 |
| 2017 | 29,115 | 1,039 | 2.05 | 57.45 | 5.54 | 77.9 | 2,331,127 | 2,255,365 | 3.61 | 3.74 | 76.4 | 2.67 |
| 2018 | 29,182 | 1,038 | 2.48 | 69.65 | 5.60 | 78.3 | 2,921,331 | 2,829,047 | 3.77 | 3.89 | 83.8 | 2.88 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 104,523 | 3,725 | 1.88 | 52.68 | 5.39 | 75.5 | 9,816,832 | 9,496,346 | 3.14 | 3.25 | 87.0 | 2.56 |
| 2018 | 92,904 | 3,308 | W | W | 5.58 | 77.7 | 8,910,631 | 8,624,203 | 3.45 | 3.57 | 78.3 | W |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been 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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - April 2018**

| | Coal | | | | | | Petroleum Liquids | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | |
| Period | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | Average Sulfur Percent by Weight | Percentage of Consumption |
| Annual Totals | | | | | | | | | | | | |
| 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 |
| 2014 | 12,064,810 | 614,728 | 2.39 | 46.95 | 1.21 | 98.3 | 98,357 | 16,161 | 19.90 | 121.14 | 0.44 | 82.0 |
| 2015 | 11,088,631 | 571,707 | 2.25 | 43.71 | 1.17 | 105.8 | 90,041 | 14,747 | 11.32 | 69.13 | 0.46 | 79.2 |
| 2016 | 9,256,878 | 476,207 | 2.16 | 42.01 | 1.21 | 95.4 | 73,294 | 11,985 | 9.16 | 56.02 | 0.45 | 74.0 |
| 2017 | 8,952,220 | 464,163 | 2.12 | 40.91 | 1.17 | 95.1 | 68,548 | 11,319 | 11.56 | 70.00 | 0.47 | 71.7 |
| Year 2016 | | | | | | | | | | | | |
| January | 750,914 | 39,064 | 2.17 | 41.71 | 1.18 | 85.5 | 6,190 | 1,022 | 7.88 | 47.74 | 0.44 | 58.8 |
| February | 722,024 | 37,129 | 2.16 | 41.95 | 1.23 | 98.2 | 5,814 | 955 | 6.92 | 42.16 | 0.41 | 64.1 |
| March | 685,422 | 34,609 | 2.19 | 43.49 | 1.34 | 110.9 | 5,223 | 851 | 6.69 | 41.07 | 0.40 | 77.5 |
| April | 612,742 | 30,953 | 2.19 | 43.39 | 1.31 | 107.4 | 6,897 | 1,126 | 8.35 | 51.19 | 0.37 | 106.4 |
| May | 655,166 | 33,408 | 2.17 | 42.60 | 1.25 | 98.5 | 6,742 | 1,114 | 9.12 | 55.16 | 0.40 | 91.7 |
| June | 775,536 | 39,900 | 2.15 | 41.79 | 1.24 | 85.9 | 5,511 | 908 | 10.51 | 63.80 | 0.44 | 70.9 |
| July | 849,005 | 43,981 | 2.17 | 41.99 | 1.15 | 81.1 | 7,117 | 1,142 | 11.54 | 71.91 | 0.52 | 66.7 |
| August | 925,332 | 47,610 | 2.17 | 42.19 | 1.19 | 88.3 | 6,737 | 1,090 | 9.15 | 56.57 | 0.51 | 66.2 |
| Sept | 851,137 | 43,822 | 2.18 | 42.34 | 1.18 | 97.6 | 5,514 | 896 | 9.00 | 55.39 | 0.49 | 79.2 |
| October | 842,651 | 43,693 | 2.12 | 40.99 | 1.16 | 110.5 | 5,205 | 851 | 9.80 | 59.94 | 0.52 | 73.4 |
| November | 805,502 | 41,615 | 2.13 | 41.25 | 1.20 | 117.8 | 6,780 | 1,106 | 9.80 | 60.07 | 0.48 | 88.2 |
| December | 781,447 | 40,423 | 2.13 | 41.17 | 1.21 | 85.4 | 5,565 | 925 | 10.71 | 64.43 | 0.44 | 65.2 |
| Year 2017 | | | | | | | | | | | | |
| January | 791,895 | 41,154 | 2.14 | 41.26 | 1.14 | 87.5 | 6,498 | 1,069 | 11.09 | 67.38 | 0.44 | 72.7 |
| February | 732,712 | 38,088 | 2.11 | 40.63 | 1.20 | 106.6 | 4,563 | 754 | 11.53 | 69.80 | 0.46 | 64.8 |
| March | 702,185 | 36,293 | 2.13 | 41.15 | 1.21 | 101.0 | 10,468 | 1,759 | 11.58 | 68.94 | 0.53 | 130.7 |
| April | 646,292 | 33,094 | 2.15 | 41.91 | 1.22 | 104.4 | 4,679 | 774 | 11.38 | 68.84 | 0.46 | 65.0 |
| May | 698,108 | 35,802 | 2.16 | 42.16 | 1.22 | 95.2 | 4,612 | 764 | 11.38 | 68.72 | 0.45 | 58.3 |
| June | 781,557 | 40,089 | 2.13 | 41.60 | 1.20 | 91.1 | 5,560 | 915 | 10.86 | 66.00 | 0.47 | 70.7 |
| July | 816,276 | 42,290 | 2.12 | 40.87 | 1.11 | 80.9 | 4,656 | 774 | 10.91 | 65.61 | 0.45 | 59.6 |
| August | 884,867 | 45,745 | 2.11 | 40.89 | 1.19 | 92.8 | 5,112 | 839 | 11.08 | 67.54 | 0.46 | 65.6 |
| Sept | 736,582 | 38,557 | 2.08 | 39.78 | 1.10 | 97.2 | 4,752 | 779 | 11.75 | 71.65 | 0.48 | 62.0 |
| October | 728,591 | 37,915 | 2.09 | 40.19 | 1.16 | 103.9 | 4,858 | 796 | 11.98 | 73.15 | 0.49 | 59.6 |
| November | 721,520 | 37,867 | 2.12 | 40.30 | 1.13 | 104.9 | 6,681 | 1,094 | 12.02 | 73.45 | 0.41 | 92.0 |
| December | 711,634 | 37,270 | 2.11 | 40.29 | 1.11 | 88.8 | 6,108 | 1,002 | 12.84 | 78.22 | 0.42 | 60.4 |
| Year 2018 | | | | | | | | | | | | |
| January | 690,227 | 36,292 | 2.08 | 39.65 | 1.11 | 75.6 | 12,569 | 2,096 | 13.91 | 83.48 | 0.43 | 48.0 |
| February | 638,278 | 33,348 | 2.10 | 40.24 | 1.16 | 97.5 | 8,008 | 1,303 | 12.43 | 76.46 | 0.46 | 118.0 |
| March | 700,041 | 36,379 | 2.10 | 40.33 | 1.17 | 111.9 | 5,017 | 827 | 13.19 | 79.98 | 0.36 | 77.4 |
| April | 606,452 | 31,464 | 2.12 | 40.91 | 1.22 | 102.9 | 5,034 | 826 | 13.61 | 83.01 | 0.36 | 73.0 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 2,771,102 | 141,755 | 2.18 | 42.57 | 1.26 | 98.8 | 24,124 | 3,953 | 7.53 | 45.94 | 0.40 | 73.4 |
| 2017 | 2,873,084 | 148,628 | 2.13 | 41.22 | 1.19 | 98.8 | 26,208 | 4,356 | 11.42 | 68.69 | 0.49 | 84.2 |
| 2018 | 2,634,997 | 137,483 | 2.10 | 40.26 | 1.17 | 94.6 | 30,628 | 5,052 | 13.35 | 81.00 | 0.42 | 65.8 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 9,358,860 | 483,079 | 2.15 | 41.61 | 1.19 | 95.5 | 75,378 | 12,387 | 10.47 | 63.69 | 0.48 | 77.5 |
| 2018 | 8,714,133 | 453,019 | 2.11 | 40.61 | 1.16 | 93.8 | 72,969 | 12,015 | 12.36 | 75.11 | 0.44 | 65.7 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been 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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - April 2018 (continued)**

| | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| Period | (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 | | | | | | | | | | | | |
| 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 |
| 2014 | 123,793 | 4,349 | 1.89 | 53.77 | 5.56 | 126.3 | 3,876,549 | 3,772,596 | 5.17 | 5.31 | 96.7 | 3.16 |
| 2015 | 115,929 | 4,069 | 1.77 | 50.44 | 5.23 | 130.1 | 4,717,748 | 4,565,040 | 3.52 | 3.64 | 96.0 | 2.67 |
| 2016 | 99,706 | 3,538 | 1.52 | 42.85 | 5.38 | 103.1 | 5,075,337 | 4,907,538 | 3.15 | 3.26 | 97.0 | 2.54 |
| 2017 | 90,481 | 3,224 | 2.15 | 60.31 | 5.55 | 117.6 | 3,990,184 | 3,861,856 | 3.65 | 3.77 | 80.5 | 2.63 |
| Year 2016 | | | | | | | | | | | | |
| January | 7,935 | 278 | 1.15 | 32.96 | 5.67 | 91.8 | 394,925 | 382,074 | 3.27 | 3.38 | 97.1 | 2.57 |
| February | 9,837 | 356 | 1.13 | 31.18 | 5.53 | 131.0 | 356,803 | 344,669 | 2.96 | 3.06 | 96.8 | 2.43 |
| March | 8,402 | 294 | 1.21 | 34.47 | 5.28 | 103.8 | 383,424 | 371,055 | 2.53 | 2.61 | 97.4 | 2.33 |
| April | 8,436 | 300 | 1.14 | 31.95 | 5.58 | 92.1 | 367,155 | 355,539 | 2.72 | 2.80 | 97.6 | 2.42 |
| May | 7,842 | 281 | 1.22 | 34.16 | 5.35 | 94.9 | 412,465 | 399,342 | 2.68 | 2.77 | 97.4 | 2.40 |
| June | 6,325 | 220 | 1.33 | 38.34 | 4.59 | 71.4 | 501,782 | 485,899 | 2.88 | 2.97 | 96.9 | 2.46 |
| July | 9,587 | 340 | 1.43 | 40.50 | 5.10 | 104.6 | 571,042 | 552,828 | 3.20 | 3.31 | 96.5 | 2.62 |
| August | 9,306 | 335 | 1.62 | 45.01 | 5.45 | 99.4 | 571,170 | 551,024 | 3.23 | 3.34 | 96.9 | 2.59 |
| Sept | 9,059 | 320 | 2.00 | 56.51 | 5.12 | 102.8 | 457,872 | 442,147 | 3.43 | 3.55 | 97.3 | 2.64 |
| October | 7,088 | 253 | 1.87 | 52.47 | 5.71 | 146.9 | 370,666 | 358,541 | 3.53 | 3.65 | 96.7 | 2.58 |
| November | 7,871 | 279 | 2.22 | 62.85 | 5.74 | 116.3 | 339,777 | 328,019 | 3.36 | 3.48 | 97.4 | 2.54 |
| December | 8,017 | 284 | 1.99 | 56.17 | 5.39 | 108.8 | 348,255 | 336,401 | 4.15 | 4.30 | 97.0 | 2.78 |
| Year 2017 | | | | | | | | | | | | |
| January | 7,058 | 251 | 2.14 | 60.16 | 5.67 | 83.3 | 288,262 | 278,519 | 4.35 | 4.50 | 83.5 | 2.77 |
| February | 7,593 | 271 | 2.00 | 56.03 | 5.85 | 124.3 | 250,635 | 242,633 | 3.83 | 3.96 | 84.6 | 2.58 |
| March | 8,628 | 309 | 2.06 | 57.51 | 5.29 | 143.9 | 297,754 | 288,236 | 3.56 | 3.67 | 81.6 | 2.64 |
| April | 5,835 | 208 | 2.00 | 55.96 | 5.34 | 188.7 | 281,420 | 272,348 | 3.52 | 3.63 | 82.6 | 2.60 |
| May | 6,776 | 242 | 2.05 | 57.46 | 5.57 | 91.5 | 323,906 | 314,002 | 3.71 | 3.82 | 83.1 | 2.68 |
| June | 8,386 | 298 | 2.14 | 60.07 | 5.55 | 105.5 | 368,349 | 356,694 | 3.57 | 3.69 | 80.8 | 2.63 |
| July | 8,245 | 292 | 2.11 | 59.61 | 5.49 | 107.5 | 446,546 | 431,672 | 3.48 | 3.60 | 77.3 | 2.62 |
| August | 7,676 | 273 | 2.11 | 59.17 | 5.45 | 119.8 | 432,247 | 418,089 | 3.46 | 3.57 | 78.2 | 2.58 |
| Sept | 7,658 | 274 | 2.12 | 59.07 | 5.42 | 130.2 | 362,507 | 350,492 | 3.58 | 3.70 | 78.8 | 2.61 |
| October | 7,454 | 265 | 2.37 | 66.84 | 5.58 | 154.2 | 329,450 | 319,249 | 3.59 | 3.70 | 79.5 | 2.60 |
| November | 7,084 | 252 | 2.52 | 70.93 | 5.66 | 107.1 | 283,335 | 274,515 | 3.66 | 3.78 | 80.6 | 2.61 |
| December | 8,088 | 287 | 2.17 | 60.99 | 5.74 | 123.5 | 325,771 | 315,406 | 3.77 | 3.90 | 80.3 | 2.69 |
| Year 2018 | | | | | | | | | | | | |
| January | 7,009 | 248 | 2.38 | 67.41 | 5.31 | 83.4 | 383,110 | 370,950 | 5.14 | 5.31 | 87.4 | 3.29 |
| February | 7,769 | 277 | 2.43 | 68.09 | 5.49 | 117.9 | 322,741 | 312,845 | 3.84 | 3.96 | 90.9 | 2.76 |
| March | 7,841 | 281 | 2.54 | 70.89 | 5.54 | 141.5 | 353,555 | 342,238 | 3.50 | 3.61 | 90.7 | 2.61 |
| April | 6,564 | 232 | 2.56 | 72.38 | 6.09 | 119.0 | 335,447 | 325,388 | 3.31 | 3.41 | 89.1 | 2.60 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 34,611 | 1,228 | 1.15 | 32.56 | 5.51 | 103.8 | 1,502,308 | 1,453,338 | 2.87 | 2.97 | 97.2 | 2.44 |
| 2017 | 29,115 | 1,039 | 2.05 | 57.45 | 5.54 | 123.1 | 1,118,072 | 1,081,736 | 3.81 | 3.94 | 83.0 | 2.65 |
| 2018 | 29,182 | 1,038 | 2.48 | 69.65 | 5.60 | 112.1 | 1,394,853 | 1,351,420 | 3.98 | 4.11 | 89.4 | 2.83 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 94,210 | 3,350 | 1.82 | 51.15 | 5.38 | 108.3 | 4,691,101 | 4,535,936 | 3.40 | 3.52 | 93.2 | 2.60 |
| 2018 | 90,548 | 3,223 | 2.29 | 64.24 | 5.57 | 114.1 | 4,266,965 | 4,131,540 | 3.72 | 3.84 | 82.6 | 2.69 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been 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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - April 2018**

| | Coal | | | | | | Petroleum Liquids | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | |
| Period | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | Average Sulfur Percent by Weight | Percentage of Consumption |
| Annual Totals | | | | | | | | | | | | |
| 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 |
| 2014 | 4,243,949 | 226,600 | 2.25 | 42.20 | 1.61 | 100.1 | 71,774 | 11,980 | 19.90 | 119.36 | 0.45 | 101.0 |
| 2015 | 3,731,508 | 198,982 | 2.10 | 39.39 | 1.66 | 100.5 | 55,248 | 9,189 | 11.69 | 70.36 | 0.46 | 86.5 |
| 2016 | 3,047,358 | 164,648 | 1.93 | 35.69 | 1.73 | 91.8 | 25,975 | 4,410 | 9.93 | 58.56 | 0.48 | 75.1 |
| 2017 | 3,006,924 | 161,228 | 1.91 | 35.67 | 1.64 | 91.2 | 23,608 | 4,003 | 12.64 | 74.53 | 0.46 | 69.1 |
| Year 2016 | | | | | | | | | | | | |
| January | 264,906 | 14,431 | 1.94 | 35.56 | 1.72 | 87.7 | 2,670 | 459 | 7.86 | 45.79 | 0.42 | 64.8 |
| February | 241,497 | 12,970 | 1.92 | 35.76 | 1.91 | 101.0 | 1,867 | 313 | 6.94 | 41.57 | 0.47 | 42.4 |
| March | 192,217 | 10,216 | 2.04 | 38.36 | 1.89 | 117.0 | 1,484 | 256 | W | W | 0.47 | 66.8 |
| April | 178,203 | 9,323 | 1.99 | 38.00 | 1.97 | 90.2 | 1,473 | 252 | W | W | 0.50 | 74.9 |
| May | 200,347 | 10,560 | 2.08 | 39.52 | 2.05 | 94.7 | 2,331 | 396 | 11.84 | 69.75 | 0.48 | 98.3 |
| June | 228,760 | 12,535 | 1.87 | 34.19 | 1.72 | 74.5 | 1,842 | 312 | 10.09 | 59.54 | 0.47 | 82.9 |
| July | 288,156 | 15,689 | 1.89 | 34.68 | 1.67 | 78.4 | 1,828 | 310 | 12.96 | 76.40 | 0.45 | 58.9 |
| August | 309,421 | 16,607 | 1.89 | 35.21 | 1.71 | 83.3 | 2,262 | 383 | 10.26 | 60.58 | 0.48 | 69.4 |
| Sept | 289,363 | 15,859 | 1.91 | 34.96 | 1.65 | 90.6 | 2,478 | 420 | 10.16 | 59.98 | 0.49 | 92.3 |
| October | 280,681 | 15,236 | 1.88 | 34.66 | 1.62 | 101.0 | 2,885 | 492 | 10.39 | 61.12 | 0.49 | 111.5 |
| November | 276,435 | 15,051 | 1.91 | 35.16 | 1.53 | 117.1 | 2,652 | 446 | 10.79 | 64.16 | 0.47 | 115.5 |
| December | 297,372 | 16,171 | 1.91 | 35.08 | 1.60 | 91.6 | 2,202 | 370 | W | W | 0.50 | 65.7 |
| Year 2017 | | | | | | | | | | | | |
| January | 293,070 | 15,606 | 1.93 | 36.35 | 1.59 | 94.6 | 2,679 | 456 | 13.98 | 82.08 | 0.47 | 92.8 |
| February | 250,099 | 13,304 | 1.90 | 35.74 | 1.60 | 108.7 | 1,438 | 241 | W | W | 0.50 | 63.4 |
| March | 247,658 | 13,058 | 1.93 | 36.69 | 1.75 | 101.4 | 1,344 | 231 | 12.02 | 69.90 | 0.44 | 80.3 |
| April | 231,929 | 12,350 | 1.97 | 37.09 | 1.66 | 97.9 | 1,383 | 233 | W | W | 0.44 | 78.7 |
| May | 234,471 | 12,642 | 1.99 | 36.90 | 1.67 | 95.0 | 1,718 | 293 | W | W | 0.45 | 71.9 |
| June | 235,473 | 12,689 | 2.00 | 37.14 | 1.68 | 85.0 | 1,507 | 258 | W | W | 0.42 | 62.6 |
| July | 253,594 | 13,865 | 1.97 | 36.04 | 1.55 | 78.8 | 1,739 | 297 | W | W | 0.48 | 57.2 |
| August | 274,367 | 14,784 | 1.94 | 35.96 | 1.64 | 88.9 | 1,649 | 280 | W | W | 0.43 | 69.4 |
| Sept | 254,384 | 13,609 | 1.84 | 34.37 | 1.64 | 90.0 | 1,491 | 258 | W | W | 0.42 | 59.9 |
| October | 246,724 | 13,227 | 1.83 | 34.24 | 1.61 | 96.5 | 2,321 | 393 | 11.66 | 68.89 | 0.50 | 108.0 |
| November | 240,378 | 12,958 | 1.79 | 33.17 | 1.64 | 87.0 | 2,432 | 415 | 13.07 | 76.69 | 0.56 | 103.6 |
| December | 244,777 | 13,136 | 1.84 | 34.33 | 1.69 | 80.0 | 3,906 | 648 | 15.88 | 95.71 | 0.43 | 46.4 |
| Year 2018 | | | | | | | | | | | | |
| January | 246,173 | 13,243 | 2.00 | 37.17 | 1.62 | 79.5 | 16,721 | 2,787 | 13.51 | 81.73 | 0.48 | 59.9 |
| February | 198,229 | 10,651 | 1.94 | 36.09 | 1.58 | 91.7 | 2,735 | 465 | 13.30 | 78.46 | 0.44 | 202.7 |
| March | 225,377 | 11,669 | 1.85 | 35.78 | 1.83 | 97.5 | 2,014 | 345 | W | W | 0.43 | 111.6 |
| April | 199,704 | 10,574 | 1.88 | 35.57 | 1.61 | 105.1 | 1,003 | 170 | W | W | 0.44 | 48.5 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 876,823 | 46,939 | 1.96 | 36.71 | 1.86 | 97.0 | 7,493 | 1,280 | 7.64 | 44.78 | 0.46 | 59.1 |
| 2017 | 1,022,756 | 54,318 | 1.93 | 36.45 | 1.65 | 100.2 | 6,844 | 1,162 | 12.79 | 75.36 | 0.47 | 79.8 |
| 2018 | 869,484 | 46,137 | 1.92 | 36.20 | 1.66 | 91.7 | 22,473 | 3,766 | 13.57 | 81.47 | 0.46 | 68.0 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 3,193,291 | 172,027 | 1.92 | 35.66 | 1.67 | 92.9 | 25,326 | 4,292 | W | W | 0.48 | 83.2 |
| 2018 | 2,853,652 | 153,046 | 1.91 | 35.55 | 1.65 | 88.5 | 39,237 | 6,607 | W | W | 0.47 | 66.9 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been 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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - April 2018 (continued)**

| | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| Period | (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 | | | | | | | | | | | | |
| 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 |
| 2014 | 13,781 | 488 | 2.48 | 70.31 | 5.33 | 70.9 | 4,054,540 | 3,934,672 | 4.90 | 5.05 | 92.7 | W |
| 2015 | 14,550 | 524 | 2.45 | 68.22 | 5.26 | 67.3 | 4,683,291 | 4,530,195 | 2.94 | 3.04 | 93.2 | W |
| 2016 | 13,573 | 492 | 2.50 | 68.88 | 5.44 | 69.9 | 4,791,729 | 4,634,518 | 2.54 | 2.63 | 94.0 | W |
| 2017 | 0 | 0 | -- | -- | -- | 0.0 | 3,663,287 | 3,542,886 | 3.07 | 3.18 | 79.5 | 2.52 |
| Year 2016 | | | | | | | | | | | | |
| January | 1,305 | 49 | W | W | 5.70 | 182.6 | 366,954 | 353,940 | 2.80 | 2.91 | 93.1 | W |
| February | 1,314 | 47 | W | W | 5.44 | 97.1 | 322,866 | 312,018 | 2.43 | 2.52 | 93.5 | W |
| March | 1,337 | 48 | W | W | 5.37 | 65.3 | 353,542 | 341,974 | 1.89 | 1.95 | 94.0 | W |
| April | 1,203 | 44 | W | W | 5.30 | 88.5 | 345,599 | 334,192 | 2.07 | 2.14 | 94.3 | W |
| May | 506 | 18 | W | W | 5.28 | 30.6 | 384,972 | 373,040 | 2.04 | 2.11 | 94.6 | W |
| June | 348 | 12 | W | W | 5.32 | 20.5 | 457,044 | 442,942 | 2.41 | 2.49 | 94.4 | W |
| July | 223 | 8 | W | W | 5.67 | 12.1 | 552,956 | 535,139 | 2.66 | 2.75 | 94.4 | W |
| August | 1,510 | 55 | W | W | 5.24 | 77.3 | 569,120 | 549,584 | 2.62 | 2.71 | 94.3 | W |
| Sept | 1,483 | 53 | W | W | 5.43 | 90.7 | 448,820 | 433,556 | 2.61 | 2.70 | 94.1 | W |
| October | 1,549 | 56 | W | W | 5.59 | 78.5 | 362,466 | 350,675 | 2.60 | 2.69 | 94.0 | W |
| November | 1,294 | 47 | W | W | 5.43 | 83.4 | 313,867 | 304,227 | 2.59 | 2.67 | 93.5 | W |
| December | 1,501 | 55 | W | W | 5.50 | 84.2 | 313,521 | 303,233 | 3.83 | 3.95 | 93.6 | W |
| Year 2017 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 259,636 | 250,896 | 3.97 | 4.11 | 79.9 | 2.84 |
| February | 0 | 0 | -- | -- | -- | 0.0 | 227,496 | 220,081 | 3.33 | 3.44 | 80.9 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 263,669 | 255,227 | 3.21 | 3.31 | 78.3 | 2.55 |
| April | 0 | 0 | -- | -- | -- | 0.0 | 241,451 | 233,602 | 3.19 | 3.30 | 79.4 | W |
| May | 0 | 0 | -- | -- | -- | 0.0 | 269,235 | 260,637 | 3.19 | 3.29 | 79.4 | W |
| June | 0 | 0 | -- | -- | -- | 0.0 | 339,166 | 328,064 | 2.92 | 3.02 | 79.5 | W |
| July | 0 | 0 | -- | -- | -- | 0.0 | 423,924 | 409,779 | 2.86 | 2.96 | 79.4 | W |
| August | 0 | 0 | -- | -- | -- | 0.0 | 412,138 | 398,444 | 2.76 | 2.85 | 79.9 | W |
| Sept | 0 | 0 | -- | -- | -- | 0.0 | 342,641 | 330,729 | 2.68 | 2.78 | 79.2 | W |
| October | 0 | 0 | -- | -- | -- | 0.0 | 310,113 | 300,091 | 2.60 | 2.69 | 79.3 | 2.26 |
| November | 0 | 0 | -- | -- | -- | 0.0 | 261,523 | 253,222 | 3.02 | 3.12 | 78.6 | 2.41 |
| December | 0 | 0 | -- | -- | -- | 0.0 | 312,295 | 302,115 | 3.57 | 3.69 | 80.5 | 2.82 |
| Year 2018 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 325,769 | 315,170 | 5.25 | 5.42 | 85.1 | 3.96 |
| February | 0 | 0 | -- | -- | -- | 0.0 | 305,540 | 295,788 | 3.34 | 3.45 | 90.7 | 2.77 |
| March | 0 | 0 | -- | -- | -- | 0.0 | 334,931 | 323,699 | 2.85 | 2.95 | 88.7 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 309,434 | 299,510 | 2.93 | 3.03 | 87.4 | W |
| Year to Date | | | | | | | | | | | | |
| 2016 | 5,159 | 188 | 2.50 | 68.47 | 5.45 | 94.7 | 1,388,962 | 1,342,123 | 2.30 | 2.38 | 93.7 | W |
| 2017 | 0 | 0 | -- | -- | -- | 0.0 | 992,252 | 959,805 | 3.43 | 3.54 | 79.6 | 2.63 |
| 2018 | 0 | 0 | -- | -- | -- | 0.0 | 1,275,674 | 1,234,167 | 3.61 | 3.73 | 87.9 | 2.95 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 8,414 | 304 | W | W | 5.43 | 44.3 | 4,395,019 | 4,252,200 | 2.82 | 2.91 | 90.4 | W |
| 2018 | 0 | 0 | -- | -- | -- | 0.0 | 3,946,709 | 3,817,248 | 3.15 | 3.25 | 82.0 | W |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been 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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2008 - April 2018**

| | Coal | | | | | | Petroleum Liquids | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | |
| Period | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | Average Sulfur Percent by Weight | Percentage of Consumption |
| Annual Totals | | | | | | | | | | | | |
| 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 |
| 2014 | 4,096 | 182 | W | W | 2.50 | 17.1 | 0 | 0 | -- | -- | -- | 0.0 |
| 2015 | 2,439 | 109 | W | W | 2.55 | 13.6 | 0 | 0 | -- | -- | -- | 0.0 |
| 2016 | 1,288 | 57 | W | W | 3.03 | 8.3 | 0 | 0 | -- | -- | -- | 0.0 |
| 2017 | 548 | 24 | W | W | 2.99 | 4.0 | 0 | 0 | -- | -- | -- | 0.0 |
| Year 2016 | | | | | | | | | | | | |
| January | 139 | 6 | W | W | 2.87 | 8.1 | 0 | 0 | -- | -- | -- | 0.0 |
| February | 124 | 5 | W | W | 2.84 | 7.2 | 0 | 0 | -- | -- | -- | 0.0 |
| March | 163 | 7 | W | W | 3.03 | 9.7 | 0 | 0 | -- | -- | -- | 0.0 |
| April | 9 | 0 | W | W | 2.98 | 0.9 | 0 | 0 | -- | -- | -- | 0.0 |
| May | 0 | 0 | -- | -- | -- | 0.0 | 0 | 0 | -- | -- | -- | 0.0 |
| June | 0 | 0 | -- | -- | -- | 0.0 | 0 | 0 | -- | -- | -- | 0.0 |
| July | 0 | 0 | -- | -- | -- | 0.0 | 0 | 0 | -- | -- | -- | 0.0 |
| August | 92 | 4 | W | W | 3.09 | 8.2 | 0 | 0 | -- | -- | -- | 0.0 |
| Sept | 153 | 7 | W | W | 3.14 | 13.5 | 0 | 0 | -- | -- | -- | 0.0 |
| October | 159 | 7 | W | W | 3.15 | 14.1 | 0 | 0 | -- | -- | -- | 0.0 |
| November | 237 | 10 | W | W | 3.04 | 17.6 | 0 | 0 | -- | -- | -- | 0.0 |
| December | 214 | 9 | W | W | 3.05 | 12.5 | 0 | 0 | -- | -- | -- | 0.0 |
| Year 2017 | | | | | | | | | | | | |
| January | 111 | 5 | W | W | 2.99 | 7.4 | 0 | 0 | -- | -- | -- | 0.0 |
| February | 91 | 4 | W | W | 2.95 | 7.4 | 0 | 0 | -- | -- | -- | 0.0 |
| March | 104 | 5 | W | W | 3.02 | 7.8 | 0 | 0 | -- | -- | -- | 0.0 |
| April | 1 | 0 | W | W | 2.96 | 0.1 | 0 | 0 | -- | -- | -- | 0.0 |
| May | 11 | 0 | W | W | 3.23 | 1.2 | 0 | 0 | -- | -- | -- | 0.0 |
| June | 17 | 1 | W | W | 3.02 | 1.6 | 0 | 0 | -- | -- | -- | 0.0 |
| July | 0 | 0 | -- | -- | -- | 0.0 | 0 | 0 | -- | -- | -- | 0.0 |
| August | 4 | 0 | W | W | 2.77 | 0.3 | 0 | 0 | -- | -- | -- | 0.0 |
| Sept | 72 | 3 | W | W | 2.96 | 6.7 | 0 | 0 | -- | -- | -- | 0.0 |
| October | 35 | 2 | W | W | 2.96 | 3.5 | 0 | 0 | -- | -- | -- | 0.0 |
| November | 13 | 1 | W | W | 3.04 | 1.2 | 0 | 0 | -- | -- | -- | 0.0 |
| December | 89 | 4 | W | W | 3.01 | 6.4 | 0 | 0 | -- | -- | -- | 0.0 |
| Year 2018 | | | | | | | | | | | | |
| January | 95 | 4 | W | W | 3.11 | 6.0 | 0 | 0 | -- | -- | -- | 0.0 |
| February | 31 | 1 | W | W | 3.19 | 2.6 | 0 | 0 | -- | -- | -- | 0.0 |
| March | 5 | 0 | W | W | 3.16 | 0.4 | 0 | 0 | -- | -- | -- | 0.0 |
| April | 0 | 0 | -- | -- | -- | 0.0 | 0 | 0 | -- | -- | -- | 0.0 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 434 | 19 | W | W | 2.92 | 7.1 | 0 | 0 | -- | -- | -- | 0.0 |
| 2017 | 308 | 13 | W | W | 2.99 | 6.2 | 0 | 0 | -- | -- | -- | 0.0 |
| 2018 | 130 | 6 | W | W | 3.13 | 2.6 | 0 | 0 | -- | -- | -- | 0.0 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 1,162 | 51 | W | W | 3.06 | 8.1 | 0 | 0 | -- | -- | -- | 0.0 |
| 2018 | 370 | 16 | W | W | 3.04 | 2.7 | 0 | 0 | -- | -- | -- | 0.0 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2008 - April 2018 (continued)**

| | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| Period | (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 | | | | | | | | | | | | |
| 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 |
| 2014 | 0 | 0 | -- | -- | -- | 0.0 | 5,849 | 5,795 | W | W | 4.9 | W |
| 2015 | 0 | 0 | -- | -- | -- | 0.0 | 6,499 | 6,371 | W | W | 5.5 | W |
| 2016 | 0 | 0 | -- | -- | -- | 0.0 | 8,005 | 7,766 | W | W | 6.1 | W |
| 2017 | 0 | 0 | -- | -- | -- | 0.0 | 7,841 | 7,593 | W | W | 6.3 | W |
| Year 2016 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 1,241 | 1,203 | W | W | 11.3 | W |
| February | 0 | 0 | -- | -- | -- | 0.0 | 488 | 477 | W | W | 4.9 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 620 | 610 | W | W | 6.2 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 578 | 567 | W | W | 6.1 | W |
| May | 0 | 0 | -- | -- | -- | 0.0 | 599 | 587 | W | W | 6.1 | W |
| June | 0 | 0 | -- | -- | -- | 0.0 | 599 | 585 | W | W | 5.3 | W |
| July | 0 | 0 | -- | -- | -- | 0.0 | 691 | 667 | W | W | 5.0 | W |
| August | 0 | 0 | -- | -- | -- | 0.0 | 802 | 765 | W | W | 5.6 | W |
| Sept | 0 | 0 | -- | -- | -- | 0.0 | 610 | 591 | W | W | 5.3 | W |
| October | 0 | 0 | -- | -- | -- | 0.0 | 598 | 575 | W | W | 5.9 | W |
| November | 0 | 0 | -- | -- | -- | 0.0 | 613 | 589 | W | W | 6.8 | W |
| December | 0 | 0 | -- | -- | -- | 0.0 | 568 | 549 | W | W | 5.3 | W |
| Year 2017 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 662 | 639 | W | W | 5.6 | W |
| February | 0 | 0 | -- | -- | -- | 0.0 | 646 | 624 | W | W | 6.3 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 680 | 662 | W | W | 6.4 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 502 | 490 | W | W | 5.7 | W |
| May | 0 | 0 | -- | -- | -- | 0.0 | 497 | 483 | W | W | 5.4 | W |
| June | 0 | 0 | -- | -- | -- | 0.0 | 615 | 595 | W | W | 6.0 | W |
| July | 0 | 0 | -- | -- | -- | 0.0 | 636 | 613 | W | W | 5.7 | W |
| August | 0 | 0 | -- | -- | -- | 0.0 | 809 | 778 | W | W | 7.4 | W |
| Sept | 0 | 0 | -- | -- | -- | 0.0 | 707 | 685 | W | W | 6.9 | W |
| October | 0 | 0 | -- | -- | -- | 0.0 | 605 | 588 | W | W | 6.0 | W |
| November | 0 | 0 | -- | -- | -- | 0.0 | 749 | 725 | W | W | 7.5 | W |
| December | 0 | 0 | -- | -- | -- | 0.0 | 734 | 711 | W | W | 6.6 | W |
| Year 2018 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 844 | 818 | W | W | 7.2 | W |
| February | 0 | 0 | -- | -- | -- | 0.0 | 709 | 688 | W | W | 6.7 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 768 | 746 | W | W | 7.2 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 732 | 713 | W | W | 7.4 | W |
| Year to Date | | | | | | | | | | | | |
| 2016 | 0 | 0 | -- | -- | -- | 0.0 | 2,927 | 2,857 | W | W | 7.2 | W |
| 2017 | 0 | 0 | -- | -- | -- | 0.0 | 2,490 | 2,414 | W | W | 6.0 | W |
| 2018 | 0 | 0 | -- | -- | -- | 0.0 | 3,053 | 2,965 | W | W | 7.1 | W |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 0 | 0 | -- | -- | -- | 0.0 | 7,568 | 7,323 | W | W | 5.7 | W |
| 2018 | 0 | 0 | -- | -- | -- | 0.0 | 8,404 | 8,143 | W | W | 6.7 | W |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been 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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - April 2018**

| | Coal | | | | | | Petroleum Liquids | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | |
| Period | (Billion Btu) | (Thousand Tons) | (Dollars per MMBtu) | (Dollars per Ton) | Average Sulfur Percent by Weight | Percentage of Consumption | (Billion Btu) | (Thousand Barrels) | (Dollars per MMBtu) | (Dollars per Barrel) | Average Sulfur Percent by Weight | Percentage of Consumption |
| Annual Totals | | | | | | | | | | | | |
| 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 |
| 2014 | 281,867 | 13,050 | W | W | 1.33 | 68.4 | 2,290 | 373 | 17.91 | 109.99 | 1.43 | 15.6 |
| 2015 | 263,630 | 12,132 | W | W | 1.35 | 71.4 | 2,359 | 385 | 13.45 | 82.47 | 1.42 | 16.9 |
| 2016 | 210,749 | 9,859 | W | W | 1.30 | 67.0 | 2,541 | 412 | 10.51 | 64.79 | 1.27 | 18.3 |
| 2017 | 183,058 | 8,703 | W | W | 1.29 | 64.8 | 1,850 | 297 | 11.18 | 69.57 | 1.42 | 16.2 |
| Year 2016 | | | | | | | | | | | | |
| January | 19,357 | 897 | W | W | 1.36 | 64.2 | 237 | 38 | 11.34 | 71.47 | 1.49 | 18.7 |
| February | 17,418 | 814 | W | W | 1.42 | 63.5 | 342 | 55 | 8.70 | 53.76 | 1.16 | 19.8 |
| March | 19,181 | 888 | W | W | 1.29 | 69.7 | 205 | 33 | W | W | 1.18 | 18.5 |
| April | 16,048 | 739 | W | W | 1.43 | 68.7 | 222 | 36 | W | W | 1.36 | 20.8 |
| May | 16,376 | 761 | 2.67 | 57.42 | 1.39 | 64.6 | 158 | 26 | 11.79 | 72.81 | 1.49 | 11.7 |
| June | 18,607 | 865 | 2.66 | 57.25 | 1.25 | 69.6 | 259 | 42 | 10.38 | 64.15 | 1.45 | 21.3 |
| July | 18,586 | 875 | 2.64 | 56.18 | 1.23 | 66.2 | 85 | 14 | 11.10 | 68.65 | 1.14 | 7.1 |
| August | 19,629 | 929 | W | W | 1.16 | 71.9 | 119 | 19 | 11.84 | 73.14 | 1.11 | 12.4 |
| Sept | 16,052 | 753 | W | W | 1.20 | 65.1 | 162 | 27 | 11.67 | 71.25 | 1.12 | 16.5 |
| October | 18,491 | 879 | W | W | 1.25 | 78.1 | 297 | 48 | 10.34 | 63.78 | 1.20 | 25.7 |
| November | 14,936 | 701 | W | W | 1.27 | 64.1 | 283 | 47 | 10.57 | 63.80 | 1.30 | 30.7 |
| December | 16,067 | 759 | W | W | 1.33 | 59.3 | 172 | 28 | W | W | 1.12 | 18.0 |
| Year 2017 | | | | | | | | | | | | |
| January | 14,872 | 698 | W | W | 1.31 | 54.1 | 128 | 21 | 11.64 | 72.27 | 1.06 | 12.7 |
| February | 15,014 | 702 | W | W | 1.10 | 64.5 | 121 | 19 | W | W | 1.36 | 16.3 |
| March | 17,051 | 819 | W | W | 1.28 | 69.8 | 178 | 29 | 10.66 | 66.36 | 1.22 | 21.7 |
| April | 15,389 | 724 | W | W | 1.17 | 67.9 | 160 | 26 | W | W | 1.27 | 17.8 |
| May | 15,645 | 762 | W | W | 1.10 | 69.4 | 155 | 25 | W | W | 1.21 | 16.0 |
| June | 15,163 | 720 | W | W | 1.32 | 65.8 | 142 | 23 | W | W | 1.11 | 15.0 |
| July | 14,992 | 721 | 2.47 | 51.34 | 1.23 | 68.8 | 95 | 15 | W | W | 1.30 | 12.2 |
| August | 15,734 | 738 | W | W | 1.30 | 69.3 | 110 | 18 | W | W | 1.55 | 12.6 |
| Sept | 14,117 | 677 | W | W | 1.10 | 65.7 | 151 | 24 | W | W | 1.51 | 19.3 |
| October | 14,951 | 704 | W | W | 1.30 | 61.3 | 149 | 24 | 11.43 | 71.09 | 1.58 | 16.4 |
| November | 14,533 | 694 | W | W | 1.38 | 60.8 | 199 | 32 | 11.67 | 72.03 | 1.71 | 19.3 |
| December | 15,598 | 744 | W | W | 1.87 | 63.1 | 263 | 42 | 11.14 | 69.14 | 1.79 | 16.1 |
| Year 2018 | | | | | | | | | | | | |
| January | 15,278 | 735 | W | W | 1.12 | 57.9 | 408 | 65 | 12.64 | 79.32 | 1.32 | 16.1 |
| February | 13,828 | 662 | W | W | 1.26 | 58.5 | 187 | 30 | 11.38 | 71.32 | 1.20 | 20.2 |
| March | 15,083 | 722 | W | W | 1.24 | 61.8 | 234 | 38 | W | W | 1.32 | 23.5 |
| April | 13,037 | 622 | 2.53 | 53.03 | 1.29 | 59.7 | 153 | 24 | W | W | 1.23 | 17.6 |
| Year to Date | | | | | | | | | | | | |
| 2016 | 72,003 | 3,338 | W | W | 1.37 | 66.4 | 1,005 | 162 | 9.48 | 58.69 | 1.28 | 19.5 |
| 2017 | 62,325 | 2,943 | W | W | 1.22 | 63.7 | 586 | 94 | 11.37 | 70.97 | 1.23 | 16.9 |
| 2018 | 57,226 | 2,742 | W | W | 1.22 | 59.4 | 982 | 157 | 12.48 | 78.29 | 1.28 | 18.5 |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 201,070 | 9,463 | W | W | 1.24 | 66.1 | 2,122 | 344 | W | W | 1.25 | 17.4 |
| 2018 | 177,959 | 8,502 | W | W | 1.29 | 63.4 | 2,246 | 360 | W | W | 1.41 | 16.9 |

Displayed values of zero may represent small values that round to zero.
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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COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - April 2018 (continued)**

| | Petroleum Coke | | | | | | Natural Gas | | | | | All Fossil Fuels |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts | | Average Cost | | | | Receipts | | Average Cost | | | Average Cost |
| Period | (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 | | | | | | | | | | | | |
| 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 |
| 2014 | 9,736 | 358 | W | W | 5.83 | 23.2 | 742,347 | 718,360 | W | W | 62.7 | W |
| 2015 | 8,189 | 304 | W | W | 5.50 | 24.1 | 765,964 | 740,975 | W | W | 60.6 | W |
| 2016 | 3,664 | 135 | W | W | 5.84 | 11.2 | 744,034 | 721,358 | W | W | 59.6 | W |
| 2017 | 2,356 | 85 | W | W | 5.84 | 8.7 | 659,116 | 638,186 | W | W | 52.1 | W |
| Year 2016 | | | | | | | | | | | | |
| January | 400 | 15 | W | W | 5.94 | 15.3 | 63,059 | 61,034 | W | W | 59.0 | W |
| February | 122 | 4 | W | W | 6.10 | 4.3 | 56,120 | 54,342 | W | W | 57.2 | W |
| March | 574 | 21 | W | W | 5.88 | 23.8 | 60,020 | 58,279 | W | W | 58.9 | W |
| April | 669 | 25 | W | W | 5.81 | 31.0 | 60,005 | 58,224 | W | W | 61.3 | W |
| May | 206 | 8 | W | W | 5.64 | 7.0 | 59,608 | 57,927 | W | W | 59.3 | W |
| June | 222 | 8 | W | W | 5.94 | 7.0 | 60,985 | 59,247 | W | W | 58.7 | W |
| July | 222 | 8 | W | W | 5.94 | 7.0 | 64,456 | 62,488 | W | W | 58.3 | W |
| August | 217 | 8 | W | W | 5.81 | 7.2 | 64,784 | 62,548 | W | W | 57.7 | W |
| Sept | 200 | 8 | W | W | 5.64 | 9.6 | 61,346 | 59,335 | W | W | 58.7 | W |
| October | 207 | 8 | W | W | 5.66 | 7.9 | 62,185 | 60,320 | W | W | 60.7 | W |
| November | 200 | 8 | W | W | 5.47 | 7.0 | 64,265 | 62,438 | W | W | 63.4 | W |
| December | 427 | 16 | W | W | 5.99 | 15.4 | 67,201 | 65,176 | W | W | 62.7 | W |
| Year 2017 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 57,392 | 55,497 | W | W | 52.1 | W |
| February | 0 | 0 | -- | -- | -- | 0.0 | 53,322 | 51,652 | W | W | 53.4 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 54,774 | 53,082 | W | W | 51.6 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 52,826 | 51,178 | W | W | 52.2 | W |
| May | 0 | 0 | -- | -- | -- | 0.0 | 52,374 | 50,733 | W | W | 51.3 | W |
| June | 271 | 9 | W | W | 5.75 | 9.5 | 54,356 | 52,640 | W | W | 52.5 | W |
| July | 253 | 9 | W | W | 5.85 | 10.1 | 57,887 | 56,022 | W | W | 52.4 | W |
| August | 296 | 11 | W | W | 5.85 | 12.0 | 55,068 | 53,287 | W | W | 51.8 | W |
| Sept | 257 | 9 | W | W | 5.85 | 11.9 | 53,561 | 51,809 | W | W | 52.7 | W |
| October | 893 | 32 | W | W | 5.85 | 38.1 | 51,971 | 50,395 | W | W | 50.5 | W |
| November | 386 | 14 | W | W | 5.85 | 17.6 | 54,697 | 52,966 | W | W | 52.0 | W |
| December | 0 | 0 | -- | -- | -- | 0.0 | 60,888 | 58,925 | W | W | 52.1 | W |
| Year 2018 | | | | | | | | | | | | |
| January | 0 | 0 | -- | -- | -- | 0.0 | 68,317 | 66,225 | W | W | 58.9 | W |
| February | 0 | 0 | -- | -- | -- | 0.0 | 59,546 | 57,769 | W | W | 58.2 | W |
| March | 0 | 0 | -- | -- | -- | 0.0 | 59,663 | 57,973 | W | W | 55.8 | W |
| April | 0 | 0 | -- | -- | -- | 0.0 | 60,223 | 58,528 | W | W | 57.4 | W |
| Year to Date | | | | | | | | | | | | |
| 2016 | 1,764 | 65 | W | W | 5.88 | 17.7 | 239,204 | 231,880 | W | W | 59.1 | W |
| 2017 | 0 | 0 | -- | -- | -- | 0.0 | 218,314 | 211,409 | W | W | 52.3 | W |
| 2018 | 0 | 0 | -- | -- | -- | 0.0 | 247,750 | 240,495 | W | W | 57.6 | W |
| Rolling 12 Months Ending in April | | | | | | | | | | | | |
| 2017 | 1,899 | 71 | W | W | 5.79 | 6.2 | 723,144 | 700,887 | W | W | 57.4 | W |
| 2018 | 2,356 | 85 | W | W | 5.84 | 9.1 | 688,552 | 667,272 | W | W | 53.8 | W |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms 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 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, April 2018 and 2017**
**(Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 5 | 4 | 29.0% | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 5 | 4 | 29.0% | 0 | 0 | 5 | 4 | 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 | 1,375 | 1,202 | 14.0% | 0 | 0 | 1,364 | 1,182 | 0 | 0 | 11 | 20 |
| New Jersey | 58 | 8 | 602.0% | 0 | 0 | 58 | 8 | 0 | 0 | 0 | 0 |
| New York | 0 | 20 | -100.0% | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 8 |
| Pennsylvania | 1,318 | 1,174 | 12.0% | 0 | 0 | 1,307 | 1,163 | 0 | 0 | 11 | 11 |
| East North Central | 10,347 | 10,785 | -4.1% | 6,360 | 6,589 | 3,832 | 4,030 | 0 | 0 | 155 | 165 |
| Illinois | 3,299 | 2,961 | 11.0% | 648 | 605 | 2,498 | 2,205 | 0 | 0 | 153 | 152 |
| Indiana | 2,234 | 2,255 | -1.0% | 2,066 | 2,136 | 167 | 119 | 0 | 0 | 0 | 0 |
| Michigan | 1,767 | 1,977 | -11.0% | 1,738 | 1,939 | 27 | 37 | 0 | 0 | 2 | 1 |
| Ohio | 1,628 | 2,223 | -27.0% | 488 | 553 | 1,140 | 1,669 | 0 | 0 | 0 | 0 |
| Wisconsin | 1,420 | 1,368 | 3.8% | 1,420 | 1,355 | 0 | 0 | 0 | 0 | 0 | 13 |
| West North Central | 7,406 | 7,378 | 0.4% | 7,171 | 7,127 | 0 | 0 | 0 | 0 | 235 | 251 |
| Iowa | 1,024 | 894 | 14.0% | 852 | 757 | 0 | 0 | 0 | 0 | 171 | 138 |
| Kansas | 428 | 589 | -27.0% | 428 | 589 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 512 | 765 | -33.0% | 512 | 699 | 0 | 0 | 0 | 0 | 0 | 66 |
| Missouri | 2,499 | 2,735 | -8.6% | 2,499 | 2,735 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 850 | 846 | 0.4% | 787 | 799 | 0 | 0 | 0 | 0 | 64 | 47 |
| North Dakota | 2,010 | 1,506 | 33.0% | 2,010 | 1,506 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 83 | 43 | 96.0% | 83 | 43 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 6,251 | 6,860 | -8.9% | 5,353 | 5,908 | 819 | 850 | 0 | 0 | 78 | 103 |
| Delaware | 0 | 35 | -100.0% | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 979 | 1,109 | -12.0% | 969 | 1,088 | 0 | 0 | 0 | 0 | 10 | 21 |
| Georgia | 1,130 | 1,431 | -21.0% | 1,118 | 1,424 | 0 | 0 | 0 | 0 | 12 | 7 |
| Maryland | 329 | 225 | 46.0% | 0 | 0 | 310 | 211 | 0 | 0 | 19 | 14 |
| North Carolina | 916 | 1,102 | -17.0% | 892 | 1,072 | 3 | 2 | 0 | 0 | 22 | 28 |
| South Carolina | 547 | 618 | -11.0% | 547 | 610 | 0 | 0 | 0 | 0 | 0 | 7 |
| Virginia | 405 | 456 | -11.0% | 347 | 398 | 43 | 33 | 0 | 0 | 15 | 25 |
| West Virginia | 1,944 | 1,884 | 3.2% | 1,480 | 1,315 | 463 | 568 | 0 | 0 | 0 | 0 |
| East South Central | 3,983 | 4,704 | -15.0% | 3,710 | 4,396 | 197 | 226 | 0 | 0 | 75 | 83 |
| Alabama | 1,328 | 1,190 | 12.0% | 1,328 | 1,190 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 2,100 | 2,730 | -23.0% | 2,100 | 2,730 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 293 | 264 | 11.0% | 96 | 39 | 197 | 226 | 0 | 0 | 0 | 0 |
| Tennessee | 262 | 520 | -50.0% | 187 | 437 | 0 | 0 | 0 | 0 | 75 | 83 |
| West South Central | 7,209 | 8,654 | -17.0% | 3,557 | 3,271 | 3,628 | 5,346 | 0 | 0 | 24 | 37 |
| Arkansas | 978 | 738 | 33.0% | 787 | 714 | 182 | 16 | 0 | 0 | 10 | 7 |
| Louisiana | 522 | 642 | -19.0% | 242 | 348 | 280 | 294 | 0 | 0 | 0 | 0 |
| Oklahoma | 509 | 509 | 0.0% | 425 | 442 | 70 | 37 | 0 | 0 | 15 | 30 |
| Texas | 5,200 | 6,765 | -23.0% | 2,104 | 1,766 | 3,096 | 4,999 | 0 | 0 | 0 | 0 |
| Mountain | 5,880 | 6,329 | -7.1% | 5,302 | 5,787 | 578 | 541 | 0 | 0 | 0 | 0 |
| Arizona | 1,372 | 1,363 | 0.7% | 1,372 | 1,363 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 1,047 | 1,213 | -14.0% | 1,047 | 1,213 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 498 | 466 | 7.0% | 0 | 17 | 498 | 449 | 0 | 0 | 0 | 0 |
| Nevada | 30 | 32 | -6.8% | 0 | 0 | 30 | 32 | 0 | 0 | 0 | 0 |
| New Mexico | 566 | 782 | -28.0% | 566 | 782 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 772 | 793 | -2.7% | 754 | 778 | 17 | 15 | 0 | 0 | 0 | 0 |
| Wyoming | 1,595 | 1,680 | -5.0% | 1,563 | 1,635 | 32 | 45 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 137 | 176 | -22.0% | 0 | 0 | 93 | 110 | 0 | 0 | 44 | 66 |
| California | 44 | 66 | -33.0% | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 66 |
| Oregon | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 93 | 110 | -15.0% | 0 | 0 | 93 | 110 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 67 | 76 | -12.0% | 10 | 16 | 57 | 61 | 0 | 0 | 0 | 0 |
| Alaska | 10 | 16 | -38.0% | 10 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 57 | 61 | -5.4% | 0 | 0 | 57 | 61 | 0 | 0 | 0 | 0 |
| U.S. Total | 42,660 | 46,168 | -7.6% | 31,464 | 33,094 | 10,574 | 12,350 | 0 | 0 | 622 | 724 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. 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.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

**Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017**
**(Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 73 | 161 | -55.0% | 45 | 45 | 28 | 116 | 0 | 0 | 0 | 0 |
| Connecticut | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 28 | 30 | -5.4% | 0 | 0 | 28 | 30 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 87 | -100.0% | 0 | 0 | 0 | 87 | 0 | 0 | 0 | 0 |
| New Hampshire | 45 | 45 | 0.7% | 45 | 45 | 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 | 6,637 | 6,815 | -2.6% | 0 | 0 | 6,596 | 6,678 | 0 | 0 | 41 | 137 |
| New Jersey | 235 | 204 | 15.0% | 0 | 0 | 235 | 204 | 0 | 0 | 0 | 0 |
| New York | 172 | 138 | 24.0% | 0 | 0 | 163 | 56 | 0 | 0 | 9 | 82 |
| Pennsylvania | 6,230 | 6,473 | -3.8% | 0 | 0 | 6,197 | 6,418 | 0 | 0 | 33 | 55 |
| East North Central | 42,019 | 44,143 | -4.8% | 24,857 | 25,467 | 16,506 | 18,026 | 0 | 0 | 657 | 650 |
| Illinois | 14,168 | 13,936 | 1.7% | 2,789 | 2,863 | 10,725 | 10,439 | 0 | 0 | 654 | 633 |
| Indiana | 9,604 | 9,022 | 6.4% | 8,980 | 8,519 | 623 | 504 | 0 | 0 | 0 | 0 |
| Michigan | 5,064 | 5,891 | -14.0% | 5,034 | 5,849 | 27 | 37 | 0 | 0 | 3 | 4 |
| Ohio | 7,072 | 9,250 | -24.0% | 1,942 | 2,204 | 5,130 | 7,046 | 0 | 0 | 0 | 0 |
| Wisconsin | 6,112 | 6,044 | 1.1% | 6,112 | 6,031 | 0 | 0 | 0 | 0 | 0 | 13 |
| West North Central | 35,814 | 36,658 | -2.3% | 34,797 | 35,604 | 0 | 0 | 6 | 13 | 1,012 | 1,040 |
| Iowa | 4,421 | 4,369 | 1.2% | 3,693 | 3,696 | 0 | 0 | 0 | 0 | 727 | 672 |
| Kansas | 3,442 | 3,824 | -10.0% | 3,442 | 3,824 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 3,605 | 4,199 | -14.0% | 3,605 | 4,067 | 0 | 0 | 0 | 0 | 0 | 132 |
| Missouri | 11,625 | 12,136 | -4.2% | 11,619 | 12,122 | 0 | 0 | 6 | 13 | 0 | 0 |
| Nebraska | 3,902 | 4,362 | -11.0% | 3,618 | 4,125 | 0 | 0 | 0 | 0 | 284 | 236 |
| North Dakota | 8,289 | 7,404 | 12.0% | 8,289 | 7,404 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 531 | 364 | 46.0% | 531 | 364 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 24,743 | 29,398 | -16.0% | 20,889 | 25,468 | 3,499 | 3,544 | 0 | 0 | 355 | 387 |
| Delaware | 0 | 141 | -100.0% | 0 | 0 | 0 | 141 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 3,524 | 4,832 | -27.0% | 3,489 | 4,766 | 0 | 13 | 0 | 0 | 35 | 53 |
| Georgia | 4,381 | 5,646 | -22.0% | 4,329 | 5,613 | 0 | 0 | 0 | 0 | 51 | 33 |
| Maryland | 1,382 | 1,544 | -10.0% | 0 | 0 | 1,305 | 1,470 | 0 | 0 | 77 | 74 |
| North Carolina | 3,791 | 4,536 | -16.0% | 3,679 | 4,397 | 20 | 16 | 0 | 0 | 92 | 122 |
| South Carolina | 1,882 | 2,299 | -18.0% | 1,879 | 2,280 | 0 | 0 | 0 | 0 | 3 | 19 |
| Virginia | 1,584 | 2,026 | -22.0% | 1,331 | 1,828 | 156 | 113 | 0 | 0 | 98 | 85 |
| West Virginia | 8,199 | 8,374 | -2.1% | 6,181 | 6,583 | 2,018 | 1,791 | 0 | 0 | 0 | 0 |
| East South Central | 17,870 | 20,316 | -12.0% | 16,667 | 19,075 | 872 | 894 | 0 | 0 | 331 | 347 |
| Alabama | 5,281 | 4,930 | 7.1% | 5,281 | 4,930 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 9,459 | 11,943 | -21.0% | 9,459 | 11,943 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 1,330 | 1,142 | 16.0% | 458 | 248 | 872 | 894 | 0 | 0 | 0 | 0 |
| Tennessee | 1,801 | 2,300 | -22.0% | 1,470 | 1,954 | 0 | 0 | 0 | 0 | 331 | 347 |
| West South Central | 31,616 | 38,050 | -17.0% | 17,225 | 16,730 | 14,253 | 21,158 | 0 | 0 | 139 | 163 |
| Arkansas | 4,992 | 3,771 | 32.0% | 4,040 | 3,581 | 918 | 164 | 0 | 0 | 34 | 27 |
| Louisiana | 2,189 | 2,831 | -23.0% | 1,286 | 1,668 | 903 | 1,164 | 0 | 0 | 0 | 0 |
| Oklahoma | 3,408 | 3,135 | 8.7% | 2,974 | 2,690 | 329 | 309 | 0 | 0 | 105 | 136 |
| Texas | 21,027 | 28,312 | -26.0% | 8,925 | 8,791 | 12,102 | 19,521 | 0 | 0 | 0 | 0 |
| Mountain | 26,341 | 29,131 | -9.6% | 22,944 | 26,015 | 3,397 | 3,116 | 0 | 0 | 0 | 0 |
| Arizona | 5,556 | 5,357 | 3.7% | 5,556 | 5,357 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 4,778 | 5,398 | -11.0% | 4,778 | 5,398 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 2,992 | 2,721 | 9.9% | 65 | 92 | 2,926 | 2,629 | 0 | 0 | 0 | 0 |
| Nevada | 182 | 181 | 0.6% | 0 | 0 | 182 | 181 | 0 | 0 | 0 | 0 |
| New Mexico | 1,787 | 3,811 | -53.0% | 1,787 | 3,811 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 3,596 | 3,902 | -7.8% | 3,468 | 3,777 | 128 | 125 | 0 | 0 | 0 | 0 |
| Wyoming | 7,451 | 7,762 | -4.0% | 7,290 | 7,580 | 161 | 182 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 951 | 990 | -4.0% | 0 | 165 | 745 | 607 | 0 | 0 | 206 | 219 |
| California | 206 | 219 | -5.7% | 0 | 0 | 0 | 0 | 0 | 0 | 206 | 219 |
| Oregon | 0 | 165 | -100.0% | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 745 | 607 | 23.0% | 0 | 0 | 745 | 607 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 302 | 239 | 26.0% | 60 | 60 | 241 | 179 | 0 | 0 | 0 | 0 |
| Alaska | 60 | 60 | 0.3% | 60 | 60 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 241 | 179 | 35.0% | 0 | 0 | 241 | 179 | 0 | 0 | 0 | 0 |
| U.S. Total | 186,367 | 205,902 | -9.5% | 137,483 | 148,628 | 46,137 | 54,318 | 6 | 13 | 2,742 | 2,943 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. 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.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

**Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, April 2018 and 2017**
**(Thousand Barrels)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | Commercial Sector | | Industrial Sector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | | | | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 3 | 0 | 501.0% | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Connecticut | 2 | 0 | -- | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Maine | 1 | 0 | 88.0% | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | -100.0% | 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 | 15 | 55 | -73.0% | 0 | 0 | 9 | 40 | 0 | 0 | 6 | 15 |
| New Jersey | 1 | 0 | 289.0% | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| New York | 0 | 36 | -100.0% | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 9 |
| Pennsylvania | 14 | 19 | -23.0% | 0 | 0 | 8 | 13 | 0 | 0 | 6 | 6 |
| East North Central | 54 | 48 | 12.0% | 39 | 36 | 11 | 10 | 0 | 0 | 4 | 2 |
| Illinois | 8 | 5 | 55.0% | 1 | 0 | 8 | 5 | 0 | 0 | 0 | 0 |
| Indiana | 4 | 18 | -76.0% | 4 | 18 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 26 | 6 | 301.0% | 24 | 6 | 0 | 0 | 0 | 0 | 2 | 0 |
| Ohio | 8 | 15 | -45.0% | 3 | 9 | 3 | 5 | 0 | 0 | 2 | 1 |
| Wisconsin | 7 | 3 | 143.0% | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 30 | 30 | -1.2% | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa | 13 | 7 | 98.0% | 13 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 10 | 13 | -26.0% | 10 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 1 | 1 | -0.3% | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 4 | 5 | -11.0% | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 1 | 0 | -- | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 4 | -90.0% | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 117 | 119 | -1.1% | 97 | 104 | 6 | 6 | 0 | 0 | 14 | 9 |
| Delaware | 0 | 2 | -100.0% | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 39 | 47 | -17.0% | 37 | 43 | 0 | 0 | 0 | 0 | 3 | 4 |
| Georgia | 13 | 8 | 52.0% | 12 | 7 | 0 | 0 | 0 | 0 | 1 | 1 |
| Maryland | 5 | 3 | 98.0% | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 |
| North Carolina | 17 | 24 | -31.0% | 9 | 20 | 0 | 0 | 0 | 0 | 8 | 4 |
| South Carolina | 6 | 14 | -58.0% | 5 | 14 | 0 | 0 | 0 | 0 | 1 | 0 |
| Virginia | 31 | 4 | 781.0% | 29 | 2 | 1 | 1 | 0 | 0 | 2 | 1 |
| West Virginia | 7 | 17 | -60.0% | 7 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 17 | 27 | -37.0% | 16 | 27 | 0 | 0 | 0 | 0 | 1 | 0 |
| Alabama | 1 | 3 | -63.0% | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 11 | 13 | -10.0% | 11 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 2 | 1 | 50.0% | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 2 | 9 | -73.0% | 2 | 9 | 0 | 0 | 0 | 0 | 1 | 0 |
| West South Central | 26 | 25 | 3.9% | 18 | 13 | 8 | 12 | 0 | 0 | 0 | 0 |
| Arkansas | 5 | 5 | -3.1% | 0 | 4 | 5 | 1 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 14 | 1 | NM | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 7 | 19 | -61.0% | 4 | 8 | 3 | 10 | 0 | 0 | 0 | 0 |
| Mountain | 31 | 37 | -16.0% | 30 | 34 | 2 | 4 | 0 | 0 | 0 | 0 |
| Arizona | 13 | 4 | 187.0% | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 1 | 0 | -- | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 2 | -86.0% | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Nevada | 1 | 1 | 42.0% | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 6 | -95.0% | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 14 | 13 | 10.0% | 13 | 12 | 1 | 1 | 0 | 0 | 0 | 0 |
| Wyoming | 2 | 12 | -80.0% | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 728 | 692 | 5.2% | 596 | 531 | 132 | 161 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 728 | 692 | 5.2% | 596 | 531 | 132 | 161 | 0 | 0 | 0 | 0 |
| U.S. Total | 1,020 | 1,033 | -1.2% | 826 | 774 | 170 | 233 | 0 | 0 | 24 | 26 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. 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.
Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

**Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017**
**(Thousand Barrels)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 1,008 | 188 | 436.0% | 114 | 8 | 894 | 181 | 0 | 0 | 0 | 0 |
| Connecticut | 107 | 19 | 470.0% | 0 | 0 | 107 | 19 | 0 | 0 | 0 | 0 |
| Maine | 251 | 84 | 198.0% | 0 | 0 | 251 | 84 | 0 | 0 | 0 | 0 |
| Massachusetts | 368 | 78 | 374.0% | 12 | 0 | 356 | 78 | 0 | 0 | 0 | 0 |
| New Hampshire | 182 | 8 | NM | 102 | 8 | 80 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 100 | 0 | -- | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 2,292 | 374 | 513.0% | 637 | 161 | 1,618 | 183 | 0 | 0 | 36 | 30 |
| New Jersey | 137 | 1 | NM | 0 | 0 | 137 | 1 | 0 | 0 | 0 | 0 |
| New York | 1,659 | 247 | 571.0% | 637 | 161 | 1,010 | 76 | 0 | 0 | 11 | 11 |
| Pennsylvania | 496 | 126 | 295.0% | 0 | 0 | 471 | 106 | 0 | 0 | 25 | 20 |
| East North Central | 266 | 225 | 18.0% | 160 | 137 | 94 | 79 | 0 | 0 | 12 | 10 |
| Illinois | 28 | 33 | -14.0% | 1 | 1 | 27 | 32 | 0 | 0 | 0 | 0 |
| Indiana | 58 | 56 | 2.4% | 57 | 56 | 1 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 53 | 41 | 29.0% | 50 | 37 | 0 | 0 | 0 | 0 | 4 | 5 |
| Ohio | 93 | 85 | 9.7% | 29 | 33 | 56 | 47 | 0 | 0 | 8 | 5 |
| Wisconsin | 34 | 10 | 227.0% | 23 | 10 | 11 | 0 | 0 | 0 | 0 | 0 |
| West North Central | 164 | 142 | 16.0% | 164 | 142 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa | 57 | 32 | 80.0% | 57 | 32 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 29 | 33 | -13.0% | 29 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 4 | 6 | -35.0% | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 55 | 31 | 80.0% | 55 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 2 | 0 | -- | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 17 | 36 | -52.0% | 17 | 36 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 5 | -100.0% | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 2,179 | 1,455 | 50.0% | 1,481 | 1,302 | 590 | 103 | 0 | 0 | 107 | 50 |
| Delaware | 69 | 6 | NM | 0 | 0 | 69 | 6 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 198 | 1,055 | -81.0% | 180 | 1,045 | 0 | 0 | 0 | 0 | 19 | 10 |
| Georgia | 137 | 61 | 123.0% | 87 | 46 | 25 | 3 | 0 | 0 | 25 | 13 |
| Maryland | 356 | 40 | 793.0% | 0 | 0 | 356 | 40 | 0 | 0 | 0 | 0 |
| North Carolina | 602 | 122 | 395.0% | 581 | 110 | 0 | 1 | 0 | 0 | 22 | 11 |
| South Carolina | 240 | 43 | 455.0% | 167 | 33 | 43 | 0 | 0 | 0 | 29 | 10 |
| Virginia | 469 | 69 | 583.0% | 380 | 10 | 76 | 53 | 0 | 0 | 13 | 6 |
| West Virginia | 107 | 59 | 82.0% | 87 | 59 | 20 | 0 | 0 | 0 | 0 | 0 |
| East South Central | 155 | 131 | 19.0% | 96 | 123 | 58 | 4 | 0 | 0 | 1 | 4 |
| Alabama | 89 | 18 | 383.0% | 31 | 15 | 58 | 4 | 0 | 0 | 0 | 0 |
| Kentucky | 39 | 63 | -38.0% | 39 | 63 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 7 | 7 | 8.1% | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 20 | 43 | -53.0% | 19 | 39 | 0 | 0 | 0 | 0 | 1 | 4 |
| West South Central | 52 | 73 | -29.0% | 35 | 24 | 16 | 49 | 0 | 0 | 0 | 0 |
| Arkansas | 13 | 27 | -50.0% | 7 | 6 | 6 | 21 | 0 | 0 | 0 | 0 |
| Louisiana | 3 | 0 | -- | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 14 | 2 | 487.0% | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 20 | 44 | -53.0% | 10 | 16 | 10 | 28 | 0 | 0 | 0 | 0 |
| Mountain | 94 | 123 | -23.0% | 90 | 112 | 4 | 10 | 0 | 0 | 0 | 0 |
| Arizona | 39 | 21 | 87.0% | 39 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 3 | 1 | 367.0% | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 2 | 6 | -71.0% | 0 | 0 | 2 | 6 | 0 | 0 | 0 | 0 |
| Nevada | 2 | 2 | -30.0% | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| New Mexico | 9 | 27 | -68.0% | 9 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 29 | 36 | -20.0% | 28 | 34 | 1 | 2 | 0 | 0 | 0 | 0 |
| Wyoming | 12 | 30 | -60.0% | 12 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 0 | 13 | -100.0% | 0 | 7 | 0 | 6 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon | 0 | 7 | -100.0% | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | 0 | 6 | -100.0% | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 2,766 | 2,888 | -4.2% | 2,274 | 2,340 | 492 | 548 | 0 | 0 | 0 | 0 |
| Alaska | 0 | 1 | -100.0% | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 2,766 | 2,888 | -4.2% | 2,274 | 2,339 | 492 | 548 | 0 | 0 | 0 | 0 |
| U.S. Total | 8,975 | 5,612 | 60.0% | 5,052 | 4,356 | 3,766 | 1,162 | 0 | 0 | 157 | 94 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. 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.
Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

**Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, April 2018 and 2017**
**(Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| 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 | 44 | 32 | 35.0% | 44 | 32 | 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 | 40 | 31 | 32.0% | 40 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 3 | 2 | 100.0% | 3 | 2 | 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 | 81 | 24 | 234.0% | 81 | 24 | 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 | 81 | 24 | 234.0% | 81 | 24 | 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 | 24 | -100.0% | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 24 | -100.0% | 0 | 24 | 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 | 107 | 128 | -16.0% | 107 | 128 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 107 | 128 | -16.0% | 107 | 128 | 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 | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 232 | 208 | 11.0% | 232 | 208 | 0 | 0 | 0 | 0 | 0 | 0 |

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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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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

**Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017**
**(Thousand Tons)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| 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 | 223 | 147 | 52.0% | 223 | 147 | 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 | 201 | 139 | 45.0% | 201 | 139 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 22 | 8 | 174.0% | 22 | 8 | 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 | 375 | 172 | 118.0% | 375 | 172 | 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 | 375 | 172 | 118.0% | 375 | 172 | 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 | 107 | -100.0% | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alabama | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 0 | 107 | -100.0% | 0 | 107 | 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 | 440 | 613 | -28.0% | 440 | 613 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arkansas | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 440 | 613 | -28.0% | 440 | 613 | 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 | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 0 | 0 | -- | 0 | 0 | 0 | 0 | 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 | 1,038 | 1,039 | -0.1% | 1,038 | 1,039 | 0 | 0 | 0 | 0 | 0 | 0 |

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Notes:
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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

**Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, April 2018 and 2017**
**(Million Cubic Feet)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 18,801 | 22,916 | -18.0% | 15 | 8 | 18,786 | 22,908 | 0 | 0 | 0 | 0 |
| Connecticut | 8,562 | 6,687 | 28.0% | 0 | 0 | 8,562 | 6,687 | 0 | 0 | 0 | 0 |
| Maine | 624 | 10 | NM | 0 | 0 | 624 | 10 | 0 | 0 | 0 | 0 |
| Massachusetts | 6,566 | 11,370 | -42.0% | 14 | 7 | 6,553 | 11,363 | 0 | 0 | 0 | 0 |
| New Hampshire | 621 | 3,574 | -83.0% | 1 | 2 | 620 | 3,573 | 0 | 0 | 0 | 0 |
| Rhode Island | 2,428 | 1,275 | 90.0% | 0 | 0 | 2,428 | 1,275 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 75,736 | 55,376 | 37.0% | 4,877 | 5,192 | 69,981 | 49,911 | 0 | 0 | 878 | 273 |
| New Jersey | 19,074 | 10,989 | 74.0% | 0 | 0 | 19,074 | 10,989 | 0 | 0 | 0 | 0 |
| New York | 22,419 | 21,209 | 5.7% | 4,877 | 5,192 | 16,883 | 15,916 | 0 | 0 | 659 | 101 |
| Pennsylvania | 34,243 | 23,178 | 48.0% | 0 | 0 | 34,024 | 23,006 | 0 | 0 | 220 | 172 |
| East North Central | 61,988 | 38,034 | 63.0% | 21,712 | 15,180 | 38,505 | 21,271 | 489 | 360 | 1,282 | 1,223 |
| Illinois | 3,601 | 3,466 | 3.9% | 149 | 25 | 3,448 | 3,438 | 0 | 0 | 4 | 4 |
| Indiana | 11,389 | 7,320 | 56.0% | 5,079 | 6,117 | 6,310 | 1,203 | 0 | 0 | 0 | 0 |
| Michigan | 21,723 | 12,248 | 77.0% | 7,395 | 2,619 | 13,273 | 8,773 | 489 | 360 | 566 | 497 |
| Ohio | 19,882 | 10,953 | 82.0% | 5,134 | 3,444 | 14,273 | 7,031 | 0 | 0 | 476 | 478 |
| Wisconsin | 5,393 | 4,047 | 33.0% | 3,956 | 2,975 | 1,200 | 826 | 0 | 0 | 237 | 245 |
| West North Central | 12,747 | 3,828 | 233.0% | 10,832 | 3,390 | 1,247 | 0 | 224 | 130 | 444 | 308 |
| Iowa | 5,922 | 1,973 | 200.0% | 5,478 | 1,666 | 0 | 0 | 0 | 0 | 444 | 307 |
| Kansas | 1,689 | 1,156 | 46.0% | 1,689 | 1,156 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 3,197 | 45 | NM | 3,132 | 44 | 65 | 0 | 1 | 1 | 0 | 1 |
| Missouri | 1,707 | 384 | 344.0% | 301 | 255 | 1,181 | 0 | 224 | 130 | 0 | 0 |
| Nebraska | 152 | 117 | 30.0% | 152 | 117 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 80 | 152 | -47.0% | 80 | 152 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 170,646 | 153,101 | 11.0% | 136,997 | 128,611 | 31,033 | 21,876 | 0 | 0 | 2,616 | 2,614 |
| Delaware | 3,052 | 1,952 | 56.0% | 0 | 0 | 3,052 | 1,952 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 92,648 | 84,005 | 10.0% | 88,434 | 81,737 | 3,904 | 2,109 | 0 | 0 | 310 | 159 |
| Georgia | 20,439 | 19,598 | 4.3% | 13,360 | 14,782 | 6,313 | 4,018 | 0 | 0 | 766 | 798 |
| Maryland | 6,913 | 3,366 | 105.0% | 2,646 | 0 | 4,043 | 3,164 | 0 | 0 | 225 | 203 |
| North Carolina | 19,680 | 16,251 | 21.0% | 18,505 | 14,090 | 945 | 2,141 | 0 | 0 | 230 | 20 |
| South Carolina | 7,768 | 9,544 | -19.0% | 6,789 | 8,360 | 925 | 1,096 | 0 | 0 | 55 | 88 |
| Virginia | 18,831 | 17,644 | 6.7% | 6,836 | 9,561 | 11,237 | 7,255 | 0 | 0 | 758 | 828 |
| West Virginia | 1,316 | 740 | 78.0% | 428 | 80 | 614 | 141 | 0 | 0 | 273 | 518 |
| East South Central | 74,114 | 59,628 | 24.0% | 49,892 | 40,647 | 22,520 | 17,635 | 0 | 0 | 1,702 | 1,345 |
| Alabama | 31,377 | 25,874 | 21.0% | 12,053 | 9,898 | 19,324 | 15,976 | 0 | 0 | 0 | 0 |
| Kentucky | 6,801 | 4,364 | 56.0% | 5,860 | 4,276 | 940 | 88 | 0 | 0 | 0 | 0 |
| Mississippi | 29,145 | 22,128 | 32.0% | 26,889 | 20,557 | 2,256 | 1,571 | 0 | 0 | 0 | 0 |
| Tennessee | 6,791 | 7,262 | -6.5% | 5,089 | 5,917 | 0 | 0 | 0 | 0 | 1,702 | 1,345 |
| West South Central | 187,946 | 157,470 | 19.0% | 48,860 | 34,423 | 89,703 | 80,341 | 0 | 0 | 49,383 | 42,706 |
| Arkansas | 12,170 | 6,985 | 74.0% | 5,124 | 1 | 6,873 | 6,889 | 0 | 0 | 173 | 95 |
| Louisiana | 34,845 | 34,708 | 0.4% | 16,188 | 13,837 | 1,891 | 4,330 | 0 | 0 | 16,766 | 16,542 |
| Oklahoma | 20,324 | 14,289 | 42.0% | 11,110 | 8,823 | 8,829 | 5,331 | 0 | 0 | 385 | 135 |
| Texas | 120,606 | 101,488 | 19.0% | 16,437 | 11,764 | 72,109 | 63,791 | 0 | 0 | 32,060 | 25,934 |
| Mountain | 46,162 | 38,110 | 21.0% | 39,417 | 31,908 | 6,689 | 6,149 | 0 | 0 | 56 | 52 |
| Arizona | 17,172 | 14,186 | 21.0% | 13,740 | 10,842 | 3,432 | 3,343 | 0 | 0 | 0 | 0 |
| Colorado | 7,096 | 6,820 | 4.0% | 6,333 | 5,910 | 763 | 910 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 202 | 250 | -19.0% | 202 | 250 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 11,721 | 10,460 | 12.0% | 11,721 | 10,460 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 6,705 | 4,223 | 59.0% | 4,214 | 2,436 | 2,491 | 1,787 | 0 | 0 | 0 | 0 |
| Utah | 3,159 | 2,115 | 49.0% | 3,103 | 1,957 | 0 | 106 | 0 | 0 | 56 | 52 |
| Wyoming | 107 | 55 | 92.0% | 104 | 53 | 3 | 2 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 35,608 | 29,020 | 23.0% | 12,394 | 12,852 | 21,046 | 13,511 | 0 | 0 | 2,168 | 2,657 |
| California | 28,786 | 26,406 | 9.0% | 9,907 | 11,218 | 16,711 | 12,531 | 0 | 0 | 2,168 | 2,657 |
| Oregon | 4,849 | 980 | 395.0% | 1,984 | 0 | 2,865 | 980 | 0 | 0 | 0 | 0 |
| Washington | 1,973 | 1,634 | 21.0% | 503 | 1,634 | 1,470 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 391 | 136 | 188.0% | 391 | 136 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 391 | 136 | 188.0% | 391 | 136 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 684,139 | 557,617 | 23.0% | 325,388 | 272,348 | 299,510 | 233,602 | 713 | 490 | 58,528 | 51,178 |

Displayed values of zero may represent small values that round to zero.
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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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 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017 (Million Cubic Feet)**

| Census Division and State | All Sectors | | | Electric Power Sector | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Electric Utilities | | Independent Power Producers | | Commercial Sector | | Industrial Sector | |
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 86,193 | 83,622 | 3.1% | 37 | 12 | 86,156 | 83,610 | 0 | 0 | 0 | 0 |
| Connecticut | 35,723 | 31,932 | 12.0% | 0 | 0 | 35,723 | 31,932 | 0 | 0 | 0 | 0 |
| Maine | 2,447 | 15 | NM | 0 | 0 | 2,447 | 15 | 0 | 0 | 0 | 0 |
| Massachusetts | 37,814 | 41,042 | -7.9% | 31 | 7 | 37,783 | 41,035 | 0 | 0 | 0 | 0 |
| New Hampshire | 2,017 | 7,053 | -71.0% | 6 | 5 | 2,011 | 7,047 | 0 | 0 | 0 | 0 |
| Rhode Island | 8,192 | 3,580 | 129.0% | 0 | 0 | 8,192 | 3,580 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic | 303,453 | 250,545 | 21.0% | 22,647 | 24,388 | 277,312 | 225,064 | 0 | 0 | 3,495 | 1,093 |
| New Jersey | 71,850 | 44,880 | 60.0% | 0 | 0 | 71,850 | 44,880 | 0 | 0 | 0 | 0 |
| New York | 88,464 | 93,982 | -5.9% | 22,647 | 24,388 | 63,367 | 69,271 | 0 | 0 | 2,451 | 323 |
| Pennsylvania | 143,139 | 111,683 | 28.0% | 0 | 0 | 142,094 | 110,913 | 0 | 0 | 1,044 | 770 |
| East North Central | 260,618 | 181,392 | 44.0% | 97,381 | 69,841 | 155,577 | 104,231 | 2,267 | 2,047 | 5,393 | 5,273 |
| Illinois | 16,658 | 19,495 | -15.0% | 657 | 70 | 15,992 | 19,405 | 0 | 0 | 9 | 21 |
| Indiana | 45,026 | 36,851 | 22.0% | 23,803 | 29,255 | 21,222 | 7,596 | 0 | 0 | 0 | 0 |
| Michigan | 81,441 | 53,513 | 52.0% | 22,728 | 10,437 | 53,962 | 38,773 | 2,267 | 2,047 | 2,484 | 2,256 |
| Ohio | 83,622 | 53,823 | 55.0% | 19,502 | 15,962 | 62,218 | 35,928 | 0 | 0 | 1,902 | 1,933 |
| Wisconsin | 33,871 | 17,710 | 91.0% | 30,691 | 14,116 | 2,183 | 2,530 | 0 | 0 | 998 | 1,063 |
| West North Central | 46,465 | 8,905 | 422.0% | 40,415 | 7,625 | 3,955 | 13 | 698 | 367 | 1,397 | 900 |
| Iowa | 16,958 | 2,793 | 507.0% | 15,576 | 1,936 | 0 | 0 | 0 | 0 | 1,382 | 857 |
| Kansas | 5,438 | 3,701 | 47.0% | 5,438 | 3,701 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 12,075 | 194 | NM | 11,935 | 135 | 123 | 13 | 2 | 3 | 15 | 43 |
| Missouri | 11,317 | 1,344 | 742.0% | 6,789 | 979 | 3,832 | 0 | 696 | 364 | 0 | 0 |
| Nebraska | 482 | 419 | 15.0% | 482 | 419 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 195 | 454 | -57.0% | 195 | 454 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Atlantic | 701,729 | 614,990 | 14.0% | 582,405 | 527,027 | 107,608 | 76,739 | 0 | 0 | 11,716 | 11,224 |
| Delaware | 10,265 | 7,867 | 30.0% | 0 | 0 | 10,265 | 7,867 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 342,879 | 299,121 | 15.0% | 330,669 | 295,106 | 11,065 | 3,165 | 0 | 0 | 1,145 | 849 |
| Georgia | 99,926 | 95,103 | 5.1% | 76,862 | 73,349 | 19,933 | 18,565 | 0 | 0 | 3,130 | 3,189 |
| Maryland | 17,697 | 10,154 | 74.0% | 2,646 | 0 | 14,192 | 9,323 | 0 | 0 | 860 | 830 |
| North Carolina | 92,095 | 81,950 | 12.0% | 82,745 | 72,583 | 8,361 | 9,103 | 0 | 0 | 989 | 264 |
| South Carolina | 35,704 | 32,321 | 10.0% | 29,858 | 28,050 | 5,503 | 3,852 | 0 | 0 | 343 | 418 |
| Virginia | 99,631 | 85,208 | 17.0% | 58,849 | 57,531 | 37,532 | 24,611 | 0 | 0 | 3,251 | 3,067 |
| West Virginia | 3,532 | 3,267 | 8.1% | 776 | 409 | 757 | 251 | 0 | 0 | 1,999 | 2,606 |
| East South Central | 295,737 | 225,879 | 31.0% | 202,642 | 151,191 | 86,527 | 69,014 | 0 | 0 | 6,568 | 5,673 |
| Alabama | 111,034 | 94,549 | 17.0% | 37,929 | 35,237 | 73,105 | 59,312 | 0 | 0 | 0 | 0 |
| Kentucky | 36,312 | 13,303 | 173.0% | 33,340 | 12,424 | 2,971 | 879 | 0 | 0 | 0 | 0 |
| Mississippi | 116,026 | 88,770 | 31.0% | 105,575 | 79,947 | 10,450 | 8,823 | 0 | 0 | 0 | 0 |
| Tennessee | 32,366 | 29,257 | 11.0% | 25,798 | 23,584 | 0 | 0 | 0 | 0 | 6,568 | 5,673 |
| West South Central | 778,290 | 584,242 | 33.0% | 183,540 | 113,927 | 392,288 | 293,695 | 0 | 0 | 202,462 | 176,620 |
| Arkansas | 42,302 | 19,685 | 115.0% | 9,942 | 13 | 31,508 | 18,934 | 0 | 0 | 852 | 738 |
| Louisiana | 141,432 | 129,567 | 9.2% | 65,459 | 52,455 | 9,511 | 12,283 | 0 | 0 | 66,462 | 64,830 |
| Oklahoma | 67,906 | 48,312 | 41.0% | 36,777 | 30,068 | 30,000 | 17,817 | 0 | 0 | 1,129 | 427 |
| Texas | 526,650 | 386,677 | 36.0% | 71,362 | 31,391 | 321,268 | 244,661 | 0 | 0 | 134,019 | 110,625 |
| Mountain | 168,944 | 141,650 | 19.0% | 146,111 | 121,760 | 22,589 | 19,594 | 0 | 0 | 245 | 295 |
| Arizona | 50,019 | 36,378 | 37.0% | 41,832 | 28,606 | 8,187 | 7,772 | 0 | 0 | 0 | 0 |
| Colorado | 33,996 | 25,008 | 36.0% | 29,229 | 21,162 | 4,768 | 3,846 | 0 | 0 | 0 | 0 |
| Idaho | 356 | 0 | -- | 356 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 851 | 938 | -9.3% | 851 | 938 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 48,532 | 48,689 | -0.3% | 48,532 | 48,689 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 22,145 | 19,273 | 15.0% | 12,781 | 11,688 | 9,364 | 7,585 | 0 | 0 | 0 | 0 |
| Utah | 12,730 | 11,184 | 14.0% | 12,223 | 10,500 | 263 | 389 | 0 | 0 | 245 | 295 |
| Wyoming | 315 | 180 | 76.0% | 308 | 178 | 7 | 2 | 0 | 0 | 0 | 0 |
| Pacific Contiguous | 186,857 | 163,615 | 14.0% | 75,482 | 65,440 | 102,156 | 87,844 | 0 | 0 | 9,220 | 10,331 |
| California | 147,831 | 141,213 | 4.7% | 58,585 | 55,864 | 80,026 | 75,018 | 0 | 0 | 9,220 | 10,331 |
| Oregon | 28,240 | 15,285 | 85.0% | 12,065 | 2,459 | 16,175 | 12,826 | 0 | 0 | 0 | 0 |
| Washington | 10,786 | 7,117 | 52.0% | 4,832 | 7,117 | 5,954 | 0 | 0 | 0 | 0 | 0 |
| Pacific Noncontiguous | 761 | 525 | 45.0% | 761 | 525 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska | 761 | 525 | 45.0% | 761 | 525 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Total | 2,829,047 | 2,255,365 | 25.0% | 1,351,420 | 1,081,736 | 1,234,167 | 959,805 | 2,965 | 2,414 | 240,495 | 211,409 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. 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 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | W | W | W | -- | -- | W | W |
| Connecticut | -- | -- | -- | -- | -- | -- | -- |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | -- | -- | -- | -- | -- | -- | -- |
| New Hampshire | -- | -- | -- | -- | -- | -- | -- |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | 2.28 | 1.99 | 15.0% | -- | -- | 2.28 | 1.99 |
| New Jersey | W | W | W | -- | -- | W | W |
| New York | -- | W | W | -- | -- | -- | W |
| Pennsylvania | W | W | W | -- | -- | W | W |
| East North Central | 2.00 | 2.03 | -1.5% | 2.11 | 2.11 | 1.82 | 1.89 |
| Illinois | 1.79 | W | W | 1.89 | 1.82 | 1.76 | W |
| Indiana | W | W | W | 2.11 | 2.18 | W | W |
| Michigan | W | W | W | 2.16 | 2.18 | W | W |
| Ohio | W | 1.90 | W | 1.77 | 1.72 | W | 1.96 |
| Wisconsin | 2.30 | 2.24 | 2.7% | 2.30 | 2.24 | -- | -- |
| West North Central | 1.72 | 1.80 | -4.4% | 1.72 | 1.80 | -- | -- |
| Iowa | 1.79 | 1.73 | 3.5% | 1.79 | 1.73 | -- | -- |
| Kansas | 1.73 | 1.84 | -6.0% | 1.73 | 1.84 | -- | -- |
| Minnesota | 2.20 | 2.11 | 4.3% | 2.20 | 2.11 | -- | -- |
| Missouri | 1.81 | 1.86 | -2.7% | 1.81 | 1.86 | -- | -- |
| Nebraska | 1.30 | 1.37 | -5.1% | 1.30 | 1.37 | -- | -- |
| North Dakota | 1.54 | 1.76 | -13.0% | 1.54 | 1.76 | -- | -- |
| South Dakota | 2.02 | 2.34 | -14.0% | 2.02 | 2.34 | -- | -- |
| South Atlantic | 2.65 | 2.69 | -1.5% | 2.71 | 2.73 | 2.30 | 2.41 |
| Delaware | -- | W | W | -- | -- | -- | W |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 2.85 | 2.85 | 0.0% | 2.85 | 2.85 | -- | -- |
| Georgia | 2.79 | 2.77 | 0.7% | 2.79 | 2.77 | -- | -- |
| Maryland | 2.64 | 2.85 | -7.4% | -- | -- | 2.64 | 2.85 |
| North Carolina | W | W | W | 3.08 | 2.97 | W | W |
| South Carolina | 3.35 | 3.26 | 2.8% | 3.35 | 3.26 | -- | -- |
| Virginia | W | W | W | 2.64 | 2.75 | W | W |
| West Virginia | W | W | W | 2.14 | 2.18 | W | W |
| East South Central | W | W | W | 2.09 | 2.04 | W | W |
| Alabama | 2.36 | 2.14 | 10.0% | 2.36 | 2.14 | -- | -- |
| Kentucky | 1.92 | 1.95 | -1.5% | 1.92 | 1.95 | -- | -- |
| Mississippi | W | W | W | 2.61 | 2.04 | W | W |
| Tennessee | 2.10 | 2.37 | -11.0% | 2.10 | 2.37 | -- | -- |
| West South Central | 1.78 | 2.02 | -12.0% | 1.92 | 2.12 | 1.63 | 1.95 |
| Arkansas | W | W | W | 1.95 | 2.02 | W | W |
| Louisiana | W | W | W | 2.05 | 2.51 | W | W |
| Oklahoma | W | W | W | 1.77 | 1.93 | W | W |
| Texas | 1.70 | W | W | 1.92 | 2.15 | 1.55 | W |
| Mountain | W | W | W | 2.02 | 1.91 | W | W |
| Arizona | 2.40 | 2.25 | 6.7% | 2.40 | 2.25 | -- | -- |
| Colorado | 1.59 | 1.88 | -15.0% | 1.59 | 1.88 | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | W | W | W | -- | 1.60 | W | W |
| Nevada | W | W | W | -- | -- | W | W |
| New Mexico | 2.37 | 1.83 | 30.0% | 2.37 | 1.83 | -- | -- |
| Utah | 2.06 | 1.95 | 5.6% | 2.06 | 1.95 | -- | -- |
| Wyoming | W | W | W | 1.78 | 1.66 | W | W |
| Pacific Contiguous | W | W | W | -- | -- | W | W |
| California | -- | -- | -- | -- | -- | -- | -- |
| Oregon | -- | -- | -- | -- | -- | -- | -- |
| Washington | W | W | W | -- | -- | W | W |
| Pacific Noncontiguous | W | W | W | 3.32 | 3.01 | W | W |
| Alaska | 3.32 | 3.01 | 10.0% | 3.32 | 3.01 | -- | -- |
| Hawaii | W | W | W | -- | -- | W | W |
| U.S. Total | 2.06 | 2.10 | -1.9% | 2.12 | 2.15 | 1.88 | 1.97 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary.
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.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

**Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | W | W | W | 3.61 | 4.34 | W | W |
| Connecticut | -- | -- | -- | -- | -- | -- | -- |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | -- | W | W | -- | -- | -- | W |
| New Hampshire | 3.61 | 4.34 | -17.0% | 3.61 | 4.34 | -- | -- |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | 2.42 | 2.05 | 18.0% | -- | -- | 2.42 | 2.05 |
| New Jersey | W | W | W | -- | -- | W | W |
| New York | W | W | W | -- | -- | W | W |
| Pennsylvania | 2.35 | 1.99 | 18.0% | -- | -- | 2.35 | 1.99 |
| East North Central | 1.98 | 2.02 | -2.0% | 2.09 | 2.12 | 1.81 | 1.89 |
| Illinois | 1.76 | W | W | 1.83 | 1.86 | 1.74 | W |
| Indiana | W | W | W | 2.11 | 2.16 | W | W |
| Michigan | W | W | W | 2.17 | 2.22 | W | W |
| Ohio | W | 1.93 | W | 1.78 | 1.75 | W | 1.99 |
| Wisconsin | 2.23 | 2.26 | -1.3% | 2.23 | 2.26 | -- | -- |
| West North Central | 1.72 | 1.77 | -2.8% | 1.72 | 1.77 | -- | -- |
| Iowa | 1.72 | 1.70 | 1.2% | 1.72 | 1.70 | -- | -- |
| Kansas | 1.69 | 1.72 | -1.7% | 1.69 | 1.72 | -- | -- |
| Minnesota | 2.12 | 2.11 | 0.5% | 2.12 | 2.11 | -- | -- |
| Missouri | 1.86 | 1.86 | 0.0% | 1.86 | 1.86 | -- | -- |
| Nebraska | 1.26 | 1.38 | -8.7% | 1.26 | 1.38 | -- | -- |
| North Dakota | 1.50 | 1.62 | -7.4% | 1.50 | 1.62 | -- | -- |
| South Dakota | 1.91 | 2.28 | -16.0% | 1.91 | 2.28 | -- | -- |
| South Atlantic | 2.65 | 2.70 | -1.9% | 2.71 | 2.73 | 2.27 | 2.50 |
| Delaware | -- | W | W | -- | -- | -- | W |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 2.89 | W | W | 2.89 | 2.97 | -- | W |
| Georgia | 2.80 | 2.75 | 1.8% | 2.80 | 2.75 | -- | -- |
| Maryland | 2.58 | 2.88 | -10.0% | -- | -- | 2.58 | 2.88 |
| North Carolina | W | W | W | 3.06 | 2.97 | W | W |
| South Carolina | 3.38 | 3.30 | 2.4% | 3.38 | 3.30 | -- | -- |
| Virginia | W | W | W | 2.66 | 2.69 | W | W |
| West Virginia | W | W | W | 2.17 | 2.22 | W | W |
| East South Central | W | W | W | 2.11 | 2.05 | W | W |
| Alabama | 2.31 | 2.16 | 6.9% | 2.31 | 2.16 | -- | -- |
| Kentucky | 1.97 | 1.96 | 0.5% | 1.97 | 1.96 | -- | -- |
| Mississippi | W | W | W | 2.77 | 2.92 | W | W |
| Tennessee | 2.16 | 2.27 | -4.8% | 2.16 | 2.27 | -- | -- |
| West South Central | 1.84 | 1.94 | -5.2% | 1.96 | 2.12 | 1.70 | 1.78 |
| Arkansas | W | W | W | 1.95 | 2.12 | W | W |
| Louisiana | W | W | W | 2.07 | 2.42 | W | W |
| Oklahoma | W | W | W | 1.75 | 1.94 | W | W |
| Texas | 1.79 | 1.87 | -4.3% | 2.02 | 2.13 | 1.63 | 1.76 |
| Mountain | W | W | W | 2.00 | 1.92 | W | W |
| Arizona | 2.42 | 2.24 | 8.0% | 2.42 | 2.24 | -- | -- |
| Colorado | 1.64 | 1.85 | -11.0% | 1.64 | 1.85 | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | W | W | W | 1.86 | 1.71 | W | W |
| Nevada | W | W | W | -- | -- | W | W |
| New Mexico | 2.31 | 1.94 | 19.0% | 2.31 | 1.94 | -- | -- |
| Utah | 2.05 | 1.96 | 4.6% | 2.05 | 1.96 | -- | -- |
| Wyoming | W | W | W | 1.79 | 1.69 | W | W |
| Pacific Contiguous | W | W | W | -- | 2.40 | W | W |
| California | -- | -- | -- | -- | -- | -- | -- |
| Oregon | -- | 2.40 | -- | -- | 2.40 | -- | -- |
| Washington | W | W | W | -- | -- | W | W |
| Pacific Noncontiguous | W | W | W | 3.30 | 3.01 | W | W |
| Alaska | 3.30 | 3.01 | 9.6% | 3.30 | 3.01 | -- | -- |
| Hawaii | W | W | W | -- | -- | W | W |
| U.S. Total | 2.06 | 2.08 | -1.0% | 2.10 | 2.13 | 1.92 | 1.93 |

Displayed values of zero may represent small values that round to zero.
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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

**Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 15.19 | W | W | 13.16 | -- | 15.38 | W |
| Connecticut | W | -- | W | -- | -- | W | -- |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | -- | W | W | -- | -- | -- | W |
| New Hampshire | 13.16 | -- | -- | 13.16 | -- | -- | -- |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | W | W | W | -- | -- | W | W |
| New Jersey | W | W | W | -- | -- | W | W |
| New York | -- | W | W | -- | -- | -- | W |
| Pennsylvania | W | W | W | -- | -- | W | W |
| East North Central | 15.58 | 12.48 | 25.0% | 15.35 | 12.43 | 16.39 | 12.64 |
| Illinois | W | W | W | 16.18 | -- | W | W |
| Indiana | 16.19 | 12.19 | 33.0% | 16.19 | 12.19 | -- | -- |
| Michigan | 15.20 | 12.08 | 26.0% | 15.20 | 12.08 | -- | -- |
| Ohio | W | W | W | 16.40 | 13.37 | W | W |
| Wisconsin | 14.88 | 11.77 | 26.0% | 14.88 | 11.77 | -- | -- |
| West North Central | 15.71 | 13.31 | 18.0% | 15.71 | 13.31 | -- | -- |
| Iowa | 15.60 | 16.26 | -4.1% | 15.60 | 16.26 | -- | -- |
| Kansas | 15.82 | 12.28 | 29.0% | 15.82 | 12.28 | -- | -- |
| Minnesota | 16.58 | 13.09 | 27.0% | 16.58 | 13.09 | -- | -- |
| Missouri | 15.45 | 12.57 | 23.0% | 15.45 | 12.57 | -- | -- |
| Nebraska | 15.90 | -- | -- | 15.90 | -- | -- | -- |
| North Dakota | 17.46 | 12.75 | 37.0% | 17.46 | 12.75 | -- | -- |
| South Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Atlantic | W | 13.09 | W | 15.46 | 13.13 | W | 12.29 |
| Delaware | -- | W | W | -- | -- | -- | W |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 16.07 | 14.07 | 14.0% | 16.07 | 14.07 | -- | -- |
| Georgia | 15.51 | 11.83 | 31.0% | 15.51 | 11.83 | -- | -- |
| Maryland | W | W | W | -- | -- | W | W |
| North Carolina | 15.47 | 11.95 | 29.0% | 15.47 | 11.95 | -- | -- |
| South Carolina | 15.84 | 13.10 | 21.0% | 15.84 | 13.10 | -- | -- |
| Virginia | W | W | W | 14.30 | 13.37 | W | W |
| West Virginia | 16.92 | 12.72 | 33.0% | 16.92 | 12.72 | -- | -- |
| East South Central | 15.13 | 12.20 | 24.0% | 15.13 | 12.20 | -- | -- |
| Alabama | 15.11 | 12.92 | 17.0% | 15.11 | 12.92 | -- | -- |
| Kentucky | 15.01 | 12.03 | 25.0% | 15.01 | 12.03 | -- | -- |
| Mississippi | 15.32 | 11.74 | 30.0% | 15.32 | 11.74 | -- | -- |
| Tennessee | 15.66 | 12.22 | 28.0% | 15.66 | 12.22 | -- | -- |
| West South Central | 16.06 | 12.38 | 30.0% | 15.70 | 12.13 | 16.89 | 12.68 |
| Arkansas | W | W | W | -- | 12.06 | W | W |
| Louisiana | -- | -- | -- | -- | -- | -- | -- |
| Oklahoma | 15.82 | 12.89 | 23.0% | 15.82 | 12.89 | -- | -- |
| Texas | W | W | W | 15.32 | 12.06 | W | W |
| Mountain | 18.69 | 14.10 | 33.0% | 18.92 | 14.18 | 14.89 | 13.43 |
| Arizona | 18.08 | 13.55 | 33.0% | 18.08 | 13.55 | -- | -- |
| Colorado | 17.18 | -- | -- | 17.18 | -- | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | W | W | W | -- | -- | W | W |
| Nevada | W | W | W | -- | -- | W | W |
| New Mexico | 7.80 | 12.86 | -39.0% | 7.80 | 12.86 | -- | -- |
| Utah | W | W | W | 20.37 | 14.08 | W | W |
| Wyoming | 17.56 | 15.19 | 16.0% | 17.56 | 15.19 | -- | -- |
| Pacific Contiguous | -- | -- | -- | -- | -- | -- | -- |
| California | -- | -- | -- | -- | -- | -- | -- |
| Oregon | -- | -- | -- | -- | -- | -- | -- |
| Washington | -- | -- | -- | -- | -- | -- | -- |
| Pacific Noncontiguous | W | W | W | 12.79 | 10.67 | W | W |
| Alaska | -- | -- | -- | -- | -- | -- | -- |
| Hawaii | W | W | W | 12.79 | 10.67 | W | W |
| U.S. Total | W | W | W | 13.61 | 11.38 | W | W |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary.
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.
Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

**Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | W | W | W | 11.40 | 14.17 | W | W |
| Connecticut | W | W | W | -- | -- | W | W |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | W | W | W | 15.00 | -- | W | W |
| New Hampshire | W | 14.17 | W | 11.00 | 14.17 | W | -- |
| Rhode Island | W | -- | W | -- | -- | W | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | 13.28 | 12.88 | 3.1% | 11.47 | 9.07 | 14.24 | 16.42 |
| New Jersey | W | W | W | -- | -- | W | W |
| New York | 12.87 | W | W | 11.47 | 9.07 | 13.85 | W |
| Pennsylvania | W | 12.34 | W | -- | -- | W | 12.34 |
| East North Central | 15.80 | 12.47 | 27.0% | 15.83 | 12.44 | 15.75 | 12.52 |
| Illinois | W | 12.72 | W | 15.27 | 12.04 | W | 12.74 |
| Indiana | W | 12.33 | W | 15.65 | 12.33 | W | -- |
| Michigan | 15.15 | 11.85 | 28.0% | 15.15 | 11.85 | -- | -- |
| Ohio | 15.83 | 12.79 | 24.0% | 16.08 | 13.40 | 15.70 | 12.36 |
| Wisconsin | 17.49 | 12.12 | 44.0% | 17.49 | 12.12 | -- | -- |
| West North Central | 15.56 | 12.36 | 26.0% | 15.56 | 12.36 | -- | -- |
| Iowa | 15.87 | 12.91 | 23.0% | 15.87 | 12.91 | -- | -- |
| Kansas | 15.54 | 12.26 | 27.0% | 15.54 | 12.26 | -- | -- |
| Minnesota | 15.56 | 12.49 | 25.0% | 15.56 | 12.49 | -- | -- |
| Missouri | 15.50 | 12.42 | 25.0% | 15.50 | 12.42 | -- | -- |
| Nebraska | 15.60 | -- | -- | 15.60 | -- | -- | -- |
| North Dakota | 14.78 | 11.98 | 23.0% | 14.78 | 11.98 | -- | -- |
| South Dakota | -- | 11.98 | -- | -- | 11.98 | -- | -- |
| South Atlantic | 14.52 | 12.44 | 17.0% | 14.78 | 12.40 | 13.79 | 12.98 |
| Delaware | W | W | W | -- | -- | W | W |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 15.60 | 12.39 | 26.0% | 15.60 | 12.39 | -- | -- |
| Georgia | W | W | W | 15.23 | 11.79 | W | W |
| Maryland | 14.13 | 11.20 | 26.0% | -- | -- | 14.13 | 11.20 |
| North Carolina | 17.11 | W | W | 17.11 | 12.28 | -- | W |
| South Carolina | 16.81 | 12.94 | 30.0% | 16.81 | 12.94 | -- | -- |
| Virginia | W | W | W | 10.27 | 12.58 | W | W |
| West Virginia | W | 12.82 | W | 16.17 | 12.82 | W | -- |
| East South Central | W | W | W | 15.26 | 12.19 | W | W |
| Alabama | W | W | W | 15.57 | 12.91 | W | W |
| Kentucky | 15.12 | 12.07 | 25.0% | 15.12 | 12.07 | -- | -- |
| Mississippi | 14.85 | 12.00 | 24.0% | 14.85 | 12.00 | -- | -- |
| Tennessee | 15.17 | 12.17 | 25.0% | 15.17 | 12.17 | -- | -- |
| West South Central | 15.37 | 12.63 | 22.0% | 15.17 | 12.29 | 15.79 | 12.79 |
| Arkansas | W | W | W | 14.60 | 12.07 | W | W |
| Louisiana | 13.95 | -- | -- | 13.95 | -- | -- | -- |
| Oklahoma | 15.78 | 12.96 | 22.0% | 15.78 | 12.96 | -- | -- |
| Texas | W | W | W | 15.12 | 12.27 | W | W |
| Mountain | 17.03 | 13.57 | 25.0% | 17.10 | 13.59 | 15.52 | 13.41 |
| Arizona | 15.85 | 13.73 | 15.0% | 15.85 | 13.73 | -- | -- |
| Colorado | 16.30 | 12.47 | 31.0% | 16.30 | 12.47 | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | W | W | W | -- | -- | W | W |
| Nevada | W | W | W | -- | -- | W | W |
| New Mexico | 17.70 | 12.63 | 40.0% | 17.70 | 12.63 | -- | -- |
| Utah | W | W | W | 18.53 | 13.88 | W | W |
| Wyoming | 17.53 | 14.03 | 25.0% | 17.53 | 14.03 | -- | -- |
| Pacific Contiguous | -- | W | W | -- | 13.51 | -- | W |
| California | -- | -- | -- | -- | -- | -- | -- |
| Oregon | -- | 13.51 | -- | -- | 13.51 | -- | -- |
| Washington | -- | W | W | -- | -- | -- | W |
| Pacific Noncontiguous | W | W | W | 12.60 | 10.80 | W | W |
| Alaska | -- | 16.28 | -- | -- | 16.28 | -- | -- |
| Hawaii | W | W | W | 12.60 | 10.80 | W | W |
| U.S. Total | 13.44 | 11.70 | 15.0% | 13.35 | 11.42 | 13.57 | 12.79 |

Displayed values of zero may represent small values that round to zero.
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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Petroleum Liquids includes distillate and residual fuel oils.
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Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | -- | -- | -- | -- | -- | -- | -- |
| Connecticut | -- | -- | -- | -- | -- | -- | -- |
| Maine | -- | -- | -- | -- | -- | -- | -- |
| Massachusetts | -- | -- | -- | -- | -- | -- | -- |
| New Hampshire | -- | -- | -- | -- | -- | -- | -- |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | -- | -- | -- | -- | -- | -- | -- |
| New Jersey | -- | -- | -- | -- | -- | -- | -- |
| New York | -- | -- | -- | -- | -- | -- | -- |
| Pennsylvania | -- | -- | -- | -- | -- | -- | -- |
| East North Central | 1.50 | 1.49 | 0.7% | 1.50 | 1.49 | -- | -- |
| Illinois | -- | -- | -- | -- | -- | -- | -- |
| Indiana | -- | -- | -- | -- | -- | -- | -- |
| Michigan | 1.48 | 1.47 | 0.7% | 1.48 | 1.47 | -- | -- |
| Ohio | -- | -- | -- | -- | -- | -- | -- |
| Wisconsin | 1.79 | 1.81 | -1.1% | 1.79 | 1.81 | -- | -- |
| West North Central | -- | -- | -- | -- | -- | -- | -- |
| Iowa | -- | -- | -- | -- | -- | -- | -- |
| Kansas | -- | -- | -- | -- | -- | -- | -- |
| Minnesota | -- | -- | -- | -- | -- | -- | -- |
| Missouri | -- | -- | -- | -- | -- | -- | -- |
| Nebraska | -- | -- | -- | -- | -- | -- | -- |
| North Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Atlantic | 2.96 | 2.27 | 30.0% | 2.96 | 2.27 | -- | -- |
| Delaware | -- | -- | -- | -- | -- | -- | -- |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 2.96 | 2.27 | 30.0% | 2.96 | 2.27 | -- | -- |
| Georgia | -- | -- | -- | -- | -- | -- | -- |
| Maryland | -- | -- | -- | -- | -- | -- | -- |
| North Carolina | -- | -- | -- | -- | -- | -- | -- |
| South Carolina | -- | -- | -- | -- | -- | -- | -- |
| Virginia | -- | -- | -- | -- | -- | -- | -- |
| West Virginia | -- | -- | -- | -- | -- | -- | -- |
| East South Central | -- | 1.52 | -- | -- | 1.52 | -- | -- |
| Alabama | -- | -- | -- | -- | -- | -- | -- |
| Kentucky | -- | 1.52 | -- | -- | 1.52 | -- | -- |
| Mississippi | -- | -- | -- | -- | -- | -- | -- |
| Tennessee | -- | -- | -- | -- | -- | -- | -- |
| West South Central | 2.67 | 2.16 | 24.0% | 2.67 | 2.16 | -- | -- |
| Arkansas | -- | -- | -- | -- | -- | -- | -- |
| Louisiana | 2.67 | 2.16 | 24.0% | 2.67 | 2.16 | -- | -- |
| Oklahoma | -- | -- | -- | -- | -- | -- | -- |
| Texas | -- | -- | -- | -- | -- | -- | -- |
| Mountain | -- | -- | -- | -- | -- | -- | -- |
| Arizona | -- | -- | -- | -- | -- | -- | -- |
| Colorado | -- | -- | -- | -- | -- | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | -- | -- | -- | -- | -- | -- | -- |
| Nevada | -- | -- | -- | -- | -- | -- | -- |
| New Mexico | -- | -- | -- | -- | -- | -- | -- |
| Utah | -- | -- | -- | -- | -- | -- | -- |
| Wyoming | -- | -- | -- | -- | -- | -- | -- |
| Pacific Contiguous | -- | -- | -- | -- | -- | -- | -- |
| California | -- | -- | -- | -- | -- | -- | -- |
| Oregon | -- | -- | -- | -- | -- | -- | -- |
| Washington | -- | -- | -- | -- | -- | -- | -- |
| Pacific Noncontiguous | -- | -- | -- | -- | -- | -- | -- |
| Alaska | -- | -- | -- | -- | -- | -- | -- |
| Hawaii | -- | -- | -- | -- | -- | -- | -- |
| U.S. Total | 2.56 | 2.00 | 28.0% | 2.56 | 2.00 | -- | -- |

Displayed values of zero may represent small values that round to zero.
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 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.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

**Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | -- | -- | -- | -- | -- | -- | -- |
| Connecticut | -- | -- | -- | -- | -- | -- | -- |
| Maine | -- | -- | -- | -- | -- | -- | -- |
| Massachusetts | -- | -- | -- | -- | -- | -- | -- |
| New Hampshire | -- | -- | -- | -- | -- | -- | -- |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | -- | -- | -- | -- | -- | -- | -- |
| New Jersey | -- | -- | -- | -- | -- | -- | -- |
| New York | -- | -- | -- | -- | -- | -- | -- |
| Pennsylvania | -- | -- | -- | -- | -- | -- | -- |
| East North Central | 1.57 | 1.50 | 4.7% | 1.57 | 1.50 | -- | -- |
| Illinois | -- | -- | -- | -- | -- | -- | -- |
| Indiana | -- | -- | -- | -- | -- | -- | -- |
| Michigan | 1.55 | 1.48 | 4.7% | 1.55 | 1.48 | -- | -- |
| Ohio | -- | -- | -- | -- | -- | -- | -- |
| Wisconsin | 1.78 | 1.79 | -0.6% | 1.78 | 1.79 | -- | -- |
| West North Central | -- | -- | -- | -- | -- | -- | -- |
| Iowa | -- | -- | -- | -- | -- | -- | -- |
| Kansas | -- | -- | -- | -- | -- | -- | -- |
| Minnesota | -- | -- | -- | -- | -- | -- | -- |
| Missouri | -- | -- | -- | -- | -- | -- | -- |
| Nebraska | -- | -- | -- | -- | -- | -- | -- |
| North Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Atlantic | 2.92 | 2.67 | 9.4% | 2.92 | 2.67 | -- | -- |
| Delaware | -- | -- | -- | -- | -- | -- | -- |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | 2.92 | 2.67 | 9.4% | 2.92 | 2.67 | -- | -- |
| Georgia | -- | -- | -- | -- | -- | -- | -- |
| Maryland | -- | -- | -- | -- | -- | -- | -- |
| North Carolina | -- | -- | -- | -- | -- | -- | -- |
| South Carolina | -- | -- | -- | -- | -- | -- | -- |
| Virginia | -- | -- | -- | -- | -- | -- | -- |
| West Virginia | -- | -- | -- | -- | -- | -- | -- |
| East South Central | -- | 1.50 | -- | -- | 1.50 | -- | -- |
| Alabama | -- | -- | -- | -- | -- | -- | -- |
| Kentucky | -- | 1.50 | -- | -- | 1.50 | -- | -- |
| Mississippi | -- | -- | -- | -- | -- | -- | -- |
| Tennessee | -- | -- | -- | -- | -- | -- | -- |
| West South Central | 2.54 | 2.10 | 21.0% | 2.54 | 2.10 | -- | -- |
| Arkansas | -- | -- | -- | -- | -- | -- | -- |
| Louisiana | 2.54 | 2.10 | 21.0% | 2.54 | 2.10 | -- | -- |
| Oklahoma | -- | -- | -- | -- | -- | -- | -- |
| Texas | -- | -- | -- | -- | -- | -- | -- |
| Mountain | -- | -- | -- | -- | -- | -- | -- |
| Arizona | -- | -- | -- | -- | -- | -- | -- |
| Colorado | -- | -- | -- | -- | -- | -- | -- |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | -- | -- | -- | -- | -- | -- | -- |
| Nevada | -- | -- | -- | -- | -- | -- | -- |
| New Mexico | -- | -- | -- | -- | -- | -- | -- |
| Utah | -- | -- | -- | -- | -- | -- | -- |
| Wyoming | -- | -- | -- | -- | -- | -- | -- |
| Pacific Contiguous | -- | -- | -- | -- | -- | -- | -- |
| California | -- | -- | -- | -- | -- | -- | -- |
| Oregon | -- | -- | -- | -- | -- | -- | -- |
| Washington | -- | -- | -- | -- | -- | -- | -- |
| Pacific Noncontiguous | -- | -- | -- | -- | -- | -- | -- |
| Alaska | -- | -- | -- | -- | -- | -- | -- |
| Hawaii | -- | -- | -- | -- | -- | -- | -- |
| U.S. Total | 2.48 | 2.05 | 21.0% | 2.48 | 2.05 | -- | -- |

Displayed values of zero may represent small values that round to zero.
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Petroleum Coke includes petroleum coke-derived synthesis gas.
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Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | Percentage Change | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 4.54 | 3.38 | 34.0% | 3.28 | 5.33 | 4.54 | 3.38 |
| Connecticut | 3.81 | W | W | -- | -- | 3.81 | W |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | 5.37 | 3.36 | 60.0% | 3.01 | 4.64 | 5.38 | 3.36 |
| New Hampshire | W | W | W | 7.05 | 7.97 | W | W |
| Rhode Island | W | W | W | -- | -- | W | W |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | 2.78 | 3.11 | -11.0% | 3.08 | 2.98 | 2.76 | 3.13 |
| New Jersey | 2.81 | 3.23 | -13.0% | -- | -- | 2.81 | 3.23 |
| New York | 3.09 | 3.29 | -6.1% | 3.08 | 2.98 | 3.10 | 3.42 |
| Pennsylvania | 2.56 | 2.90 | -12.0% | -- | -- | 2.56 | 2.90 |
| East North Central | 2.91 | 3.20 | -9.1% | 3.03 | 3.22 | 2.84 | 3.18 |
| Illinois | W | W | W | 3.05 | 3.85 | W | W |
| Indiana | W | W | W | 3.13 | 2.99 | W | W |
| Michigan | 3.00 | 3.34 | -10.0% | 3.10 | 3.51 | 2.94 | 3.29 |
| Ohio | 2.71 | 3.09 | -12.0% | 2.77 | 3.13 | 2.69 | 3.08 |
| Wisconsin | 3.13 | W | W | 3.13 | 3.54 | -- | W |
| West North Central | W | 3.20 | W | 2.95 | 3.20 | W | -- |
| Iowa | 2.64 | 2.69 | -1.9% | 2.64 | 2.69 | -- | -- |
| Kansas | 2.99 | 3.74 | -20.0% | 2.99 | 3.74 | -- | -- |
| Minnesota | W | 3.32 | W | 3.41 | 3.32 | W | -- |
| Missouri | W | 2.98 | W | 2.38 | 2.98 | W | -- |
| Nebraska | 3.73 | 4.09 | -8.8% | 3.73 | 4.09 | -- | -- |
| North Dakota | 5.50 | 4.41 | 25.0% | 5.50 | 4.41 | -- | -- |
| South Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Atlantic | 3.80 | 3.62 | 5.0% | 3.92 | 3.65 | 3.09 | 3.38 |
| Delaware | -- | -- | -- | -- | -- | -- | -- |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | W | 3.52 | W | 4.09 | 3.52 | W | -- |
| Georgia | W | W | W | 3.67 | 3.98 | W | W |
| Maryland | 3.10 | 3.21 | -3.4% | 3.25 | -- | 3.01 | 3.21 |
| North Carolina | W | W | W | 3.65 | 4.21 | W | W |
| South Carolina | W | W | W | 3.39 | 3.50 | W | W |
| Virginia | 3.33 | 3.45 | -3.5% | 3.72 | 3.52 | 2.95 | 3.26 |
| West Virginia | W | 3.12 | W | 2.84 | 2.87 | W | 3.27 |
| East South Central | 2.91 | 3.29 | -12.0% | 2.88 | 3.26 | 3.01 | 3.34 |
| Alabama | W | W | W | 3.01 | 3.36 | W | W |
| Kentucky | W | W | W | 3.14 | 3.55 | W | W |
| Mississippi | W | W | W | 2.81 | 3.23 | W | W |
| Tennessee | 2.59 | 3.03 | -15.0% | 2.59 | 3.03 | -- | -- |
| West South Central | 2.76 | 3.17 | -13.0% | 2.73 | 3.30 | 2.77 | 3.10 |
| Arkansas | W | W | W | 3.07 | 3.08 | W | W |
| Louisiana | W | W | W | 2.97 | 3.39 | W | W |
| Oklahoma | W | W | W | 2.34 | 3.26 | W | W |
| Texas | 2.76 | 3.13 | -12.0% | 2.67 | 3.24 | 2.79 | 3.10 |
| Mountain | 2.73 | 3.68 | -26.0% | 2.71 | 3.68 | 3.25 | 3.64 |
| Arizona | W | W | W | 2.72 | 3.90 | W | W |
| Colorado | W | W | W | 3.45 | 3.47 | W | W |
| Idaho | -- | -- | -- | -- | -- | -- | -- |
| Montana | 1.21 | 2.17 | -44.0% | 1.21 | 2.17 | -- | -- |
| Nevada | 2.66 | 3.60 | -26.0% | 2.66 | 3.60 | -- | -- |
| New Mexico | 1.95 | 3.69 | -47.0% | 1.95 | 3.69 | -- | -- |
| Utah | 2.45 | W | W | 2.45 | 3.70 | -- | W |
| Wyoming | W | W | W | 2.66 | 3.59 | W | W |
| Pacific Contiguous | W | 3.55 | W | 3.27 | 3.87 | W | 3.14 |
| California | 2.98 | W | W | 3.55 | 3.97 | 2.49 | W |
| Oregon | W | W | W | 2.01 | -- | W | W |
| Washington | W | 3.36 | W | 3.50 | 3.36 | W | -- |
| Pacific Noncontiguous | 7.76 | 8.09 | -4.1% | 7.76 | 8.09 | -- | -- |
| Alaska | 7.76 | 8.09 | -4.1% | 7.76 | 8.09 | -- | -- |
| Hawaii | -- | -- | -- | -- | -- | -- | -- |
| U.S. Total | 3.15 | 3.38 | -6.8% | 3.31 | 3.52 | 2.93 | 3.19 |

Displayed values of zero may represent small values that round to zero.
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 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 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) April 2018 and 2017**
**(Dollars per MMBtu)**

| Census Division and State | Electric Power Sector | | | Electric Utilities | | Independent Power Producers | |
|---|---|---|---|---|---|---|---|
| | April 2018 YTD | April 2017 YTD | Percentage Change | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 6.79 | 4.68 | 45.0% | 4.55 | 6.51 | 6.79 | 4.68 |
| Connecticut | 6.46 | W | W | -- | -- | 6.46 | W |
| Maine | W | W | W | -- | -- | W | W |
| Massachusetts | 7.29 | 4.11 | 77.0% | 3.28 | 4.64 | 7.29 | 4.11 |
| New Hampshire | W | W | W | 10.75 | 8.69 | W | W |
| Rhode Island | W | W | W | -- | -- | W | W |
| Vermont | -- | -- | -- | -- | -- | -- | -- |
| Middle Atlantic | 4.02 | 3.67 | 9.5% | 5.75 | 4.51 | 3.86 | 3.56 |
| New Jersey | 3.83 | 3.45 | 11.0% | -- | -- | 3.83 | 3.45 |
| New York | 4.95 | 4.30 | 15.0% | 5.75 | 4.51 | 4.61 | 4.20 |
| Pennsylvania | 3.55 | 3.23 | 9.9% | -- | -- | 3.55 | 3.23 |
| East North Central | 3.11 | 3.20 | -2.8% | 3.31 | 3.22 | 2.98 | 3.18 |
| Illinois | 3.41 | W | W | 4.58 | 4.45 | 3.36 | W |
| Indiana | 3.25 | W | W | 3.51 | 3.09 | 2.95 | W |
| Michigan | 3.10 | 3.24 | -4.3% | 3.38 | 3.37 | 2.99 | 3.20 |
| Ohio | 2.91 | 3.14 | -7.3% | 2.98 | 3.06 | 2.89 | 3.18 |
| Wisconsin | 3.30 | W | W | 3.30 | 3.57 | -- | W |
| West North Central | W | W | W | 3.13 | 3.71 | W | W |
| Iowa | 2.81 | 2.96 | -5.1% | 2.81 | 2.96 | -- | -- |
| Kansas | 3.25 | 4.00 | -19.0% | 3.25 | 4.00 | -- | -- |
| Minnesota | W | W | W | 3.53 | 3.45 | W | W |
| Missouri | W | 2.98 | W | 2.83 | 2.98 | W | -- |
| Nebraska | 4.64 | 4.98 | -6.8% | 4.64 | 4.98 | -- | -- |
| North Dakota | 6.48 | 5.08 | 28.0% | 6.48 | 5.08 | -- | -- |
| South Dakota | -- | -- | -- | -- | -- | -- | -- |
| South Atlantic | 4.76 | 3.98 | 20.0% | 4.83 | 4.03 | 4.26 | 3.44 |
| Delaware | -- | -- | -- | -- | -- | -- | -- |
| District of Columbia | -- | -- | -- | -- | -- | -- | -- |
| Florida | W | 4.10 | W | 4.56 | 4.10 | W | -- |
| Georgia | W | W | W | 3.88 | 3.73 | W | W |
| Maryland | W | W | W | 3.25 | -- | W | W |
| North Carolina | W | W | W | 5.53 | 4.18 | W | W |
| South Carolina | W | W | W | 4.24 | 3.55 | W | W |
| Virginia | 5.80 | W | W | 6.98 | 4.14 | 3.10 | W |
| West Virginia | 3.25 | 3.32 | -2.1% | 3.42 | 3.09 | 3.07 | 3.70 |
| East South Central | 3.28 | 3.39 | -3.2% | 3.30 | 3.41 | 3.23 | 3.34 |
| Alabama | W | W | W | 3.26 | 3.55 | W | W |
| Kentucky | W | W | W | 3.72 | 4.01 | W | W |
| Mississippi | W | W | W | 3.22 | 3.32 | W | W |
| Tennessee | 3.11 | 3.18 | -2.2% | 3.11 | 3.18 | -- | -- |
| West South Central | 3.10 | 3.17 | -2.2% | 3.16 | 3.36 | 3.06 | 3.09 |
| Arkansas | W | W | W | 3.36 | 3.35 | W | W |
| Louisiana | W | W | W | 3.32 | 3.35 | W | W |
| Oklahoma | W | W | W | 2.80 | 3.45 | W | W |
| Texas | 3.10 | 3.12 | -0.6% | 3.17 | 3.29 | 3.08 | 3.09 |
| Mountain | 3.26 | W | W | 3.24 | 3.81 | 3.78 | W |
| Arizona | W | W | W | 3.05 | 4.17 | W | W |
| Colorado | W | W | W | 4.24 | 3.70 | W | W |
| Idaho | 3.32 | -- | -- | 3.32 | -- | -- | -- |
| Montana | 1.65 | 2.17 | -24.0% | 1.65 | 2.17 | -- | -- |
| Nevada | 3.00 | 3.76 | -20.0% | 3.00 | 3.76 | -- | -- |
| New Mexico | 2.74 | 3.54 | -23.0% | 2.74 | 3.54 | -- | -- |
| Utah | W | W | W | 2.91 | 3.73 | W | W |
| Wyoming | W | W | W | 3.42 | 4.52 | W | W |
| Pacific Contiguous | W | W | W | 3.51 | 4.15 | W | W |
| California | 3.36 | W | W | 3.82 | 4.18 | 2.88 | W |
| Oregon | W | W | W | 2.20 | 3.40 | W | W |
| Washington | W | 4.21 | W | 3.55 | 4.21 | W | -- |
| Pacific Noncontiguous | 8.09 | 8.09 | 0.0% | 8.09 | 8.09 | -- | -- |
| Alaska | 8.09 | 8.09 | 0.0% | 8.09 | 8.09 | -- | -- |
| Hawaii | -- | -- | -- | -- | -- | -- | -- |
| U.S. Total | 3.82 | 3.65 | 4.7% | 3.98 | 3.81 | 3.61 | 3.43 |

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary.
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 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, April 2018**

| | Bituminous | | | Subbituminous | | | Lignite | | |
|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | 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 | 5 | 0.73 | 7.4 | 0 | -- | -- | 0 | -- | -- |
| Connecticut | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maine | 5 | 0.73 | 7.4 | 0 | -- | -- | 0 | -- | -- |
| Massachusetts | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Hampshire | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Rhode Island | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Vermont | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Middle Atlantic | 1,159 | 2.71 | 8.7 | 0 | -- | -- | 0 | -- | -- |
| New Jersey | 58 | 1.68 | 7.9 | 0 | -- | -- | 0 | -- | -- |
| New York | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pennsylvania | 1,102 | 2.77 | 8.7 | 0 | -- | -- | 0 | -- | -- |
| East North Central | 4,708 | 3.11 | 10.1 | 5,639 | 0.23 | 4.6 | 0 | -- | -- |
| Illinois | 736 | 3.58 | 20.0 | 2,563 | 0.22 | 4.5 | 0 | -- | -- |
| Indiana | 2,127 | 2.85 | 8.6 | 107 | 0.24 | 4.6 | 0 | -- | -- |
| Michigan | 186 | 2.41 | 7.4 | 1,581 | 0.26 | 4.5 | 0 | -- | -- |
| Ohio | 1,628 | 3.37 | 9.0 | 0 | -- | -- | 0 | -- | -- |
| Wisconsin | 31 | 2.67 | 7.7 | 1,389 | 0.23 | 4.7 | 0 | -- | -- |
| West North Central | 119 | 2.96 | 9.2 | 5,278 | 0.26 | 4.9 | 2,010 | 0.79 | 10.0 |
| Iowa | 21 | 3.55 | 8.0 | 1,003 | 0.25 | 4.8 | 0 | -- | -- |
| Kansas | 17 | 3.13 | 12.8 | 411 | 0.29 | 4.7 | 0 | -- | -- |
| Minnesota | 0 | -- | -- | 512 | 0.33 | 6.1 | 0 | -- | -- |
| Missouri | 81 | 2.78 | 8.8 | 2,418 | 0.22 | 4.6 | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 850 | 0.31 | 5.3 | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 0 | -- | -- | 2,010 | 0.79 | 10.0 |
| South Dakota | 0 | -- | -- | 83 | 0.34 | 5.1 | 0 | -- | -- |
| South Atlantic | 5,501 | 2.28 | 9.9 | 716 | 0.34 | 4.7 | 0 | -- | -- |
| Delaware | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 979 | 2.60 | 8.3 | 0 | -- | -- | 0 | -- | -- |
| Georgia | 414 | 2.50 | 8.2 | 716 | 0.34 | 4.7 | 0 | -- | -- |
| Maryland | 329 | 2.30 | 9.8 | 0 | -- | -- | 0 | -- | -- |
| North Carolina | 916 | 1.84 | 9.3 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 547 | 1.69 | 9.2 | 0 | -- | -- | 0 | -- | -- |
| Virginia | 405 | 1.10 | 17.9 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 1,910 | 2.66 | 10.0 | 0 | -- | -- | 0 | -- | -- |
| East South Central | 2,558 | 2.61 | 9.3 | 1,228 | 0.27 | 5.1 | 197 | 0.46 | 14.2 |
| Alabama | 528 | 1.44 | 10.8 | 799 | 0.28 | 5.2 | 0 | -- | -- |
| Kentucky | 1,782 | 3.07 | 9.1 | 318 | 0.25 | 5.0 | 0 | -- | -- |
| Mississippi | 0 | -- | -- | 96 | 0.25 | 4.7 | 197 | 0.46 | 14.2 |
| Tennessee | 247 | 1.80 | 8.2 | 15 | 0.38 | 5.1 | 0 | -- | -- |
| West South Central | 90 | 2.58 | 17.2 | 5,605 | 0.28 | 5.0 | 1,514 | 1.19 | 17.0 |
| Arkansas | 10 | 0.39 | 10.1 | 968 | 0.23 | 4.8 | 0 | -- | -- |
| Louisiana | 39 | 3.18 | 9.8 | 484 | 0.31 | 5.0 | 0 | -- | -- |
| Oklahoma | 42 | 2.57 | 26.8 | 467 | 0.22 | 4.5 | 0 | -- | -- |
| Texas | 0 | -- | -- | 3,686 | 0.30 | 5.2 | 1,514 | 1.19 | 17.0 |
| Mountain | 1,414 | 0.56 | 11.4 | 4,448 | 0.54 | 8.7 | 0 | -- | -- |
| Arizona | 441 | 0.57 | 5.1 | 931 | 0.68 | 10.5 | 0 | -- | -- |
| Colorado | 41 | 0.47 | 10.7 | 1,006 | 0.32 | 5.8 | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 498 | 0.73 | 9.7 | 0 | -- | -- |
| Nevada | 0 | -- | -- | 30 | 0.23 | 4.7 | 0 | -- | -- |
| New Mexico | 235 | 0.73 | 21.7 | 331 | 0.78 | 20.5 | 0 | -- | -- |
| Utah | 698 | 0.50 | 12.3 | 56 | 0.90 | 9.6 | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 1,595 | 0.47 | 6.7 | 0 | -- | -- |
| Pacific Contiguous | 44 | 0.53 | 10.2 | 88 | 0.35 | 8.0 | 0 | -- | -- |
| California | 44 | 0.53 | 10.2 | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Washington | 0 | -- | -- | 88 | 0.35 | 8.0 | 0 | -- | -- |
| Pacific Noncontiguous | 0 | -- | -- | 57 | 0.19 | 4.8 | 6 | 0.14 | 8.8 |
| Alaska | 0 | -- | -- | 0 | -- | -- | 6 | 0.14 | 8.8 |
| Hawaii | 0 | -- | -- | 57 | 0.19 | 4.8 | 0 | -- | -- |
| U.S. Total | 15,597 | 2.47 | 9.9 | 23,060 | 0.31 | 5.6 | 3,727 | 0.94 | 13.0 |

Displayed values of zero may represent small values that round to zero.
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 coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. 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 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, April 2018**

| | Bituminous | | | Subbituminous | | | Lignite | | |
|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | 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 | 2,755 | 2.88 | 8.5 | 3,605 | 0.24 | 4.6 | 0 | -- | -- |
| Illinois | 119 | 3.23 | 9.8 | 529 | 0.21 | 4.6 | 0 | -- | -- |
| Indiana | 1,960 | 2.80 | 8.5 | 107 | 0.24 | 4.6 | 0 | -- | -- |
| Michigan | 157 | 2.49 | 7.5 | 1,581 | 0.26 | 4.5 | 0 | -- | -- |
| Ohio | 488 | 3.23 | 8.6 | 0 | -- | -- | 0 | -- | -- |
| Wisconsin | 31 | 2.67 | 7.7 | 1,389 | 0.23 | 4.7 | 0 | -- | -- |
| West North Central | 98 | 2.84 | 9.5 | 5,064 | 0.26 | 4.9 | 2,010 | 0.79 | 10.0 |
| Iowa | 0 | -- | -- | 852 | 0.26 | 4.9 | 0 | -- | -- |
| Kansas | 17 | 3.13 | 12.8 | 411 | 0.29 | 4.7 | 0 | -- | -- |
| Minnesota | 0 | -- | -- | 512 | 0.33 | 6.1 | 0 | -- | -- |
| Missouri | 81 | 2.78 | 8.8 | 2,418 | 0.22 | 4.6 | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 787 | 0.32 | 5.4 | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 0 | -- | -- | 2,010 | 0.79 | 10.0 |
| South Dakota | 0 | -- | -- | 83 | 0.34 | 5.1 | 0 | -- | -- |
| South Atlantic | 4,637 | 2.24 | 10.0 | 716 | 0.34 | 4.7 | 0 | -- | -- |
| Delaware | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 969 | 2.62 | 8.3 | 0 | -- | -- | 0 | -- | -- |
| Georgia | 402 | 2.56 | 8.1 | 716 | 0.34 | 4.7 | 0 | -- | -- |
| Maryland | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| North Carolina | 892 | 1.87 | 9.4 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 547 | 1.69 | 9.2 | 0 | -- | -- | 0 | -- | -- |
| Virginia | 347 | 1.17 | 19.7 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 1,480 | 2.54 | 10.1 | 0 | -- | -- | 0 | -- | -- |
| East South Central | 2,482 | 2.66 | 9.3 | 1,228 | 0.27 | 5.1 | 0 | -- | -- |
| Alabama | 528 | 1.44 | 10.8 | 799 | 0.28 | 5.2 | 0 | -- | -- |
| Kentucky | 1,782 | 3.07 | 9.1 | 318 | 0.25 | 5.0 | 0 | -- | -- |
| Mississippi | 0 | -- | -- | 96 | 0.25 | 4.7 | 0 | -- | -- |
| Tennessee | 172 | 2.18 | 7.8 | 15 | 0.38 | 5.1 | 0 | -- | -- |
| West South Central | 39 | 3.18 | 9.8 | 3,116 | 0.26 | 4.9 | 403 | 2.18 | 23.8 |
| Arkansas | 0 | -- | -- | 787 | 0.23 | 4.7 | 0 | -- | -- |
| Louisiana | 39 | 3.18 | 9.8 | 204 | 0.27 | 5.0 | 0 | -- | -- |
| Oklahoma | 0 | -- | -- | 425 | 0.21 | 4.5 | 0 | -- | -- |
| Texas | 0 | -- | -- | 1,701 | 0.28 | 5.0 | 403 | 2.18 | 23.8 |
| Mountain | 1,414 | 0.56 | 11.4 | 3,888 | 0.52 | 8.6 | 0 | -- | -- |
| Arizona | 441 | 0.57 | 5.1 | 931 | 0.68 | 10.5 | 0 | -- | -- |
| Colorado | 41 | 0.47 | 10.7 | 1,006 | 0.32 | 5.8 | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Nevada | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Mexico | 235 | 0.73 | 21.7 | 331 | 0.78 | 20.5 | 0 | -- | -- |
| Utah | 698 | 0.50 | 12.3 | 56 | 0.90 | 9.6 | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 1,563 | 0.47 | 6.7 | 0 | -- | -- |
| Pacific Contiguous | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| California | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Washington | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pacific Noncontiguous | 0 | -- | -- | 0 | -- | -- | 6 | 0.14 | 8.8 |
| Alaska | 0 | -- | -- | 0 | -- | -- | 6 | 0.14 | 8.8 |
| Hawaii | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| U.S. Total | 11,426 | 2.30 | 9.6 | 17,617 | 0.32 | 5.7 | 2,418 | 0.99 | 12.1 |

Displayed values of zero may represent small values that round to zero.
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 coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. 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 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, April 2018**

| | Bituminous | | | Subbituminous | | | Lignite | | |
|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | 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 | 5 | 0.73 | 7.4 | 0 | -- | -- | 0 | -- | -- |
| Connecticut | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maine | 5 | 0.73 | 7.4 | 0 | -- | -- | 0 | -- | -- |
| Massachusetts | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New Hampshire | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Rhode Island | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Vermont | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Middle Atlantic | 1,148 | 2.72 | 8.7 | 0 | -- | -- | 0 | -- | -- |
| New Jersey | 58 | 1.68 | 7.9 | 0 | -- | -- | 0 | -- | -- |
| New York | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pennsylvania | 1,091 | 2.77 | 8.7 | 0 | -- | -- | 0 | -- | -- |
| East North Central | 1,846 | 3.46 | 12.8 | 1,986 | 0.20 | 4.4 | 0 | -- | -- |
| Illinois | 512 | 3.66 | 26.1 | 1,986 | 0.20 | 4.4 | 0 | -- | -- |
| Indiana | 167 | 3.40 | 10.5 | 0 | -- | -- | 0 | -- | -- |
| Michigan | 27 | 2.05 | 7.0 | 0 | -- | -- | 0 | -- | -- |
| Ohio | 1,140 | 3.44 | 9.1 | 0 | -- | -- | 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 | 785 | 2.65 | 9.3 | 0 | -- | -- | 0 | -- | -- |
| Delaware | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Georgia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Maryland | 310 | 2.32 | 9.2 | 0 | -- | -- | 0 | -- | -- |
| North Carolina | 3 | 0.73 | 6.0 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Virginia | 43 | 0.76 | 9.6 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 429 | 3.09 | 9.4 | 0 | -- | -- | 0 | -- | -- |
| East South Central | 0 | -- | -- | 0 | -- | -- | 197 | 0.46 | 14.2 |
| Alabama | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Kentucky | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Mississippi | 0 | -- | -- | 0 | -- | -- | 197 | 0.46 | 14.2 |
| Tennessee | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| West South Central | 42 | 2.57 | 26.8 | 2,475 | 0.32 | 5.3 | 1,111 | 0.89 | 14.9 |
| Arkansas | 0 | -- | -- | 182 | 0.26 | 5.6 | 0 | -- | -- |
| Louisiana | 0 | -- | -- | 280 | 0.33 | 5.1 | 0 | -- | -- |
| Oklahoma | 42 | 2.57 | 26.8 | 28 | 0.24 | 4.7 | 0 | -- | -- |
| Texas | 0 | -- | -- | 1,985 | 0.32 | 5.3 | 1,111 | 0.89 | 14.9 |
| Mountain | 0 | -- | -- | 560 | 0.69 | 9.2 | 0 | -- | -- |
| Arizona | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Colorado | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Idaho | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Montana | 0 | -- | -- | 498 | 0.73 | 9.7 | 0 | -- | -- |
| Nevada | 0 | -- | -- | 30 | 0.23 | 4.7 | 0 | -- | -- |
| New Mexico | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Utah | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Wyoming | 0 | -- | -- | 32 | 0.42 | 5.7 | 0 | -- | -- |
| Pacific Contiguous | 0 | -- | -- | 88 | 0.35 | 8.0 | 0 | -- | -- |
| California | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Oregon | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Washington | 0 | -- | -- | 88 | 0.35 | 8.0 | 0 | -- | -- |
| Pacific Noncontiguous | 0 | -- | -- | 57 | 0.19 | 4.8 | 0 | -- | -- |
| Alaska | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Hawaii | 0 | -- | -- | 57 | 0.19 | 4.8 | 0 | -- | -- |
| U.S. Total | 3,826 | 3.03 | 10.8 | 5,166 | 0.31 | 5.4 | 1,309 | 0.84 | 14.8 |

Displayed values of zero may represent small values that round to zero.
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 coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. 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 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, April 2018**

| | Bituminous | | | Subbituminous | | | Lignite | | |
|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | 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 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Illinois | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Indiana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Michigan | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Ohio | 0 | -- | -- | 0 | -- | -- | 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 | 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 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |

Displayed values of zero may represent small values that round to zero.
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 coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. 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 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, April 2018**

| | Bituminous | | | Subbituminous | | | Lignite | | |
|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | 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 | 11 | 2.58 | 7.4 | 0 | -- | -- | 0 | -- | -- |
| New Jersey | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| New York | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Pennsylvania | 11 | 2.58 | 7.4 | 0 | -- | -- | 0 | -- | -- |
| East North Central | 107 | 3.61 | 8.2 | 48 | 0.80 | 6.5 | 0 | -- | -- |
| Illinois | 105 | 3.67 | 8.3 | 48 | 0.80 | 6.5 | 0 | -- | -- |
| Indiana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Michigan | 2 | 0.82 | 6.5 | 0 | -- | -- | 0 | -- | -- |
| Ohio | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Wisconsin | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| West North Central | 21 | 3.55 | 8.0 | 214 | 0.21 | 4.5 | 0 | -- | -- |
| Iowa | 21 | 3.55 | 8.0 | 150 | 0.21 | 4.5 | 0 | -- | -- |
| Kansas | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Minnesota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Missouri | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Nebraska | 0 | -- | -- | 64 | 0.21 | 4.4 | 0 | -- | -- |
| North Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Dakota | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| South Atlantic | 78 | 1.00 | 10.9 | 0 | -- | -- | 0 | -- | -- |
| Delaware | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| District of Columbia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Florida | 10 | 0.72 | 8.4 | 0 | -- | -- | 0 | -- | -- |
| Georgia | 12 | 0.70 | 10.2 | 0 | -- | -- | 0 | -- | -- |
| Maryland | 19 | 1.91 | 22.4 | 0 | -- | -- | 0 | -- | -- |
| North Carolina | 22 | 0.83 | 6.9 | 0 | -- | -- | 0 | -- | -- |
| South Carolina | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Virginia | 15 | 0.74 | 7.1 | 0 | -- | -- | 0 | -- | -- |
| West Virginia | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| East South Central | 75 | 1.01 | 9.1 | 0 | -- | -- | 0 | -- | -- |
| Alabama | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Kentucky | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Mississippi | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Tennessee | 75 | 1.01 | 9.1 | 0 | -- | -- | 0 | -- | -- |
| West South Central | 10 | 0.39 | 10.1 | 15 | 0.20 | 4.6 | 0 | -- | -- |
| Arkansas | 10 | 0.39 | 10.1 | 0 | -- | -- | 0 | -- | -- |
| Louisiana | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| Oklahoma | 0 | -- | -- | 15 | 0.20 | 4.6 | 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 | 44 | 0.53 | 10.2 | 0 | -- | -- | 0 | -- | -- |
| California | 44 | 0.53 | 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 | 345 | 1.86 | 9.3 | 277 | 0.31 | 4.8 | 0 | -- | -- |

Displayed values of zero may represent small values that round to zero.
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 coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. 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 5.1. Sales of Electricity to Ultimate Customers:**
**Total by End-Use Sector, 2008 - April 2018 (Thousand Megawatthours)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| Annual Totals | | | | | |
| 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 | 1,394,812 | 1,337,079 | 985,352 | 7,625 | 3,724,868 |
| 2014 | 1,407,208 | 1,352,158 | 997,576 | 7,758 | 3,764,700 |
| 2015 | 1,404,096 | 1,360,752 | 986,508 | 7,637 | 3,758,992 |
| 2016 | 1,411,058 | 1,367,191 | 976,715 | 7,497 | 3,762,462 |
| 2017 | 1,378,819 | 1,349,208 | 946,443 | 7,524 | 3,681,995 |
| Year 2016 | | | | | |
| January | 130,972 | 110,410 | 78,848 | 660 | 320,890 |
| February | 115,959 | 103,452 | 76,748 | 646 | 296,806 |
| March | 100,227 | 105,739 | 79,237 | 609 | 285,812 |
| April | 88,244 | 102,045 | 78,647 | 595 | 269,531 |
| May | 94,198 | 108,437 | 81,491 | 581 | 284,708 |
| June | 125,211 | 120,363 | 83,672 | 631 | 329,878 |
| July | 154,409 | 130,038 | 87,076 | 648 | 372,172 |
| August | 156,442 | 135,019 | 89,101 | 631 | 381,192 |
| Sept | 129,363 | 123,493 | 83,259 | 637 | 336,752 |
| October | 101,508 | 112,963 | 81,597 | 613 | 296,681 |
| November | 93,244 | 105,060 | 78,421 | 592 | 277,317 |
| December | 121,281 | 110,172 | 78,616 | 653 | 310,722 |
| Year 2017 | | | | | |
| January | 129,253 | 109,414 | 75,814 | 666 | 315,148 |
| February | 101,349 | 99,607 | 71,958 | 636 | 273,550 |
| March | 103,434 | 107,171 | 77,587 | 644 | 288,836 |
| April | 90,966 | 101,796 | 75,917 | 590 | 269,269 |
| May | 98,977 | 109,912 | 80,147 | 583 | 289,619 |
| June | 122,034 | 119,289 | 82,224 | 629 | 324,176 |
| July | 149,075 | 128,324 | 84,240 | 630 | 362,268 |
| August | 142,026 | 128,144 | 85,905 | 641 | 356,716 |
| Sept | 119,077 | 118,836 | 80,260 | 619 | 318,793 |
| October | 102,983 | 113,036 | 79,471 | 626 | 296,116 |
| November | 97,870 | 104,959 | 76,195 | 598 | 279,622 |
| December | 121,775 | 108,720 | 76,724 | 663 | 307,882 |
| Year 2018 | | | | | |
| January | 148,985 | 114,531 | 75,948 | 748 | 340,212 |
| February | 113,334 | 101,791 | 71,996 | 638 | 287,759 |
| March | 106,061 | 106,965 | 76,785 | 625 | 290,435 |
| April | 95,132 | 102,941 | 75,342 | 608 | 274,023 |
| Year to Date | | | | | |
| 2016 | 435,402 | 421,646 | 313,480 | 2,510 | 1,173,040 |
| 2017 | 425,003 | 417,987 | 301,277 | 2,536 | 1,146,803 |
| 2018 | 463,512 | 426,229 | 300,070 | 2,619 | 1,192,430 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 1,400,659 | 1,363,532 | 964,511 | 7,523 | 3,736,225 |
| 2018 | 1,417,328 | 1,357,449 | 945,237 | 7,607 | 3,727,621 |

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 for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. 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. 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 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.
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 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - April 2018 (Million Dollars)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| Annual Totals | | | | | |
| 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 | 169,131 | 137,188 | 67,934 | 805 | 375,058 |
| 2014 | 176,178 | 145,253 | 70,855 | 810 | 393,096 |
| 2015 | 177,624 | 144,781 | 68,166 | 771 | 391,341 |
| 2016 | 177,077 | 142,643 | 66,068 | 722 | 386,509 |
| 2017 | 177,860 | 144,108 | 65,394 | 727 | 388,089 |
| Year 2016 | | | | | |
| January | 15,704 | 11,133 | 5,080 | 63 | 31,980 |
| February | 14,076 | 10,605 | 4,927 | 62 | 29,670 |
| March | 12,593 | 10,815 | 5,122 | 58 | 28,587 |
| April | 10,967 | 10,398 | 5,065 | 57 | 26,486 |
| May | 12,048 | 11,184 | 5,357 | 54 | 28,643 |
| June | 15,942 | 12,828 | 5,879 | 62 | 34,710 |
| July | 19,575 | 13,891 | 6,294 | 64 | 39,823 |
| August | 20,157 | 14,530 | 6,440 | 63 | 41,191 |
| Sept | 16,652 | 13,298 | 5,947 | 64 | 35,961 |
| October | 12,648 | 11,914 | 5,491 | 59 | 30,111 |
| November | 11,886 | 10,840 | 5,225 | 55 | 28,007 |
| December | 14,830 | 11,206 | 5,242 | 62 | 31,339 |
| Year 2017 | | | | | |
| January | 15,783 | 11,190 | 4,988 | 62 | 32,023 |
| February | 12,952 | 10,439 | 4,763 | 60 | 28,215 |
| March | 13,332 | 11,224 | 5,224 | 61 | 29,841 |
| April | 11,542 | 10,584 | 5,021 | 56 | 27,203 |
| May | 12,879 | 11,633 | 5,459 | 56 | 30,027 |
| June | 16,123 | 13,120 | 5,937 | 64 | 35,243 |
| July | 19,547 | 14,108 | 6,194 | 64 | 39,912 |
| August | 18,727 | 14,153 | 6,231 | 64 | 39,175 |
| Sept | 15,838 | 13,150 | 5,795 | 62 | 34,844 |
| October | 13,220 | 12,231 | 5,525 | 60 | 31,036 |
| November | 12,691 | 11,054 | 5,171 | 57 | 28,974 |
| December | 15,226 | 11,222 | 5,084 | 62 | 31,594 |
| Year 2018 | | | | | |
| January | 18,217 | 11,995 | 5,290 | 71 | 35,573 |
| February | 14,303 | 10,793 | 4,863 | 62 | 30,021 |
| March | 13,780 | 11,194 | 5,097 | 58 | 30,129 |
| April | 12,263 | 10,745 | 4,955 | 58 | 28,021 |
| Year to Date | | | | | |
| 2016 | 53,339 | 42,951 | 20,193 | 240 | 116,723 |
| 2017 | 53,609 | 43,437 | 19,997 | 239 | 117,283 |
| 2018 | 58,563 | 44,727 | 20,205 | 249 | 123,744 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 177,347 | 143,129 | 65,871 | 721 | 387,068 |
| 2018 | 182,813 | 145,397 | 65,602 | 737 | 394,550 |

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 for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. 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. 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 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.
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 5.3. Average Price of Electricity to Ultimate Customers:**
**Total by End-Use Sector, 2008 - April 2018 (Cents per Kilowatthour)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| Annual Totals | | | | | |
| 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 | 12.13 | 10.26 | 6.89 | 10.55 | 10.07 |
| 2014 | 12.52 | 10.74 | 7.10 | 10.45 | 10.44 |
| 2015 | 12.65 | 10.64 | 6.91 | 10.09 | 10.41 |
| 2016 | 12.55 | 10.43 | 6.76 | 9.63 | 10.27 |
| 2017 | 12.90 | 10.68 | 6.91 | 9.67 | 10.54 |
| Year 2016 | | | | | |
| January | 11.99 | 10.08 | 6.44 | 9.52 | 9.97 |
| February | 12.14 | 10.25 | 6.42 | 9.61 | 10.00 |
| March | 12.56 | 10.23 | 6.46 | 9.56 | 10.00 |
| April | 12.43 | 10.19 | 6.44 | 9.53 | 9.83 |
| May | 12.79 | 10.31 | 6.57 | 9.28 | 10.06 |
| June | 12.73 | 10.66 | 7.03 | 9.75 | 10.52 |
| July | 12.68 | 10.68 | 7.23 | 9.84 | 10.70 |
| August | 12.88 | 10.76 | 7.23 | 10.04 | 10.81 |
| Sept | 12.87 | 10.77 | 7.14 | 10.00 | 10.68 |
| October | 12.46 | 10.55 | 6.73 | 9.62 | 10.15 |
| November | 12.75 | 10.32 | 6.66 | 9.22 | 10.10 |
| December | 12.23 | 10.17 | 6.67 | 9.49 | 10.09 |
| Year 2017 | | | | | |
| January | 12.21 | 10.23 | 6.58 | 9.38 | 10.16 |
| February | 12.78 | 10.48 | 6.62 | 9.47 | 10.31 |
| March | 12.89 | 10.47 | 6.73 | 9.47 | 10.33 |
| April | 12.69 | 10.40 | 6.61 | 9.44 | 10.10 |
| May | 13.01 | 10.58 | 6.81 | 9.58 | 10.37 |
| June | 13.21 | 11.00 | 7.22 | 10.14 | 10.87 |
| July | 13.11 | 10.99 | 7.35 | 10.11 | 11.02 |
| August | 13.19 | 11.04 | 7.25 | 10.05 | 10.98 |
| Sept | 13.30 | 11.07 | 7.22 | 9.99 | 10.93 |
| October | 12.84 | 10.82 | 6.95 | 9.55 | 10.48 |
| November | 12.97 | 10.53 | 6.79 | 9.49 | 10.36 |
| December | 12.50 | 10.32 | 6.63 | 9.32 | 10.26 |
| Year 2018 | | | | | |
| January | 12.23 | 10.47 | 6.97 | 9.46 | 10.46 |
| February | 12.62 | 10.60 | 6.75 | 9.74 | 10.43 |
| March | 12.99 | 10.47 | 6.64 | 9.33 | 10.37 |
| April | 12.89 | 10.44 | 6.58 | 9.53 | 10.23 |
| Year to Date | | | | | |
| 2016 | 12.25 | 10.19 | 6.44 | 9.56 | 9.95 |
| 2017 | 12.61 | 10.39 | 6.64 | 9.44 | 10.23 |
| 2018 | 12.63 | 10.49 | 6.73 | 9.51 | 10.38 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 12.66 | 10.50 | 6.83 | 9.59 | 10.36 |
| 2018 | 12.90 | 10.71 | 6.94 | 9.69 | 10.58 |

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 for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. 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. 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 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.
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 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, April 2018 and 2017 (Thousand Megawatthours)**

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 3,408 | 3,637 | 3,919 | 4,429 | 1,254 | 1,330 | 43 | 39 | 8,625 | 9,435 |
| Connecticut | 916 | 953 | 909 | 971 | 237 | 249 | 14 | 8 | 2,076 | 2,181 |
| Maine | 375 | 370 | 300 | 298 | 224 | 203 | 0 | 0 | 899 | 871 |
| Massachusetts | 1,403 | 1,591 | 1,948 | 2,385 | 469 | 566 | 28 | 28 | 3,847 | 4,569 |
| New Hampshire | 337 | 362 | 326 | 356 | 153 | 147 | 0 | 0 | 816 | 864 |
| Rhode Island | 217 | 209 | 279 | 267 | 64 | 57 | 2 | 2 | 563 | 536 |
| Vermont | 159 | 152 | 156 | 153 | 109 | 108 | 0 | 0 | 425 | 414 |
| Middle Atlantic | 9,542 | 8,743 | 11,946 | 11,723 | 5,836 | 5,859 | 310 | 312 | 27,634 | 26,637 |
| New Jersey | 1,806 | 1,678 | 2,851 | 2,816 | 540 | 539 | 26 | 26 | 5,224 | 5,059 |
| New York | 3,572 | 3,441 | 5,777 | 5,627 | 1,367 | 1,451 | 225 | 226 | 10,942 | 10,745 |
| Pennsylvania | 4,163 | 3,624 | 3,318 | 3,280 | 3,929 | 3,869 | 59 | 59 | 11,469 | 10,832 |
| East North Central | 13,139 | 11,560 | 13,863 | 13,513 | 14,691 | 14,649 | 48 | 45 | 41,741 | 39,767 |
| Illinois | 3,046 | 2,662 | 3,762 | 3,585 | 3,305 | 3,334 | 42 | 40 | 10,156 | 9,622 |
| Indiana | 2,262 | 1,938 | 1,776 | 1,749 | 3,336 | 3,227 | 2 | 2 | 7,376 | 6,916 |
| Michigan | 2,467 | 2,214 | 3,029 | 2,995 | 2,317 | 2,329 | 1 | 0 | 7,813 | 7,539 |
| Ohio | 3,731 | 3,223 | 3,457 | 3,415 | 3,817 | 3,828 | 3 | 4 | 11,008 | 10,471 |
| Wisconsin | 1,633 | 1,522 | 1,840 | 1,768 | 1,916 | 1,930 | 0 | 0 | 5,389 | 5,220 |
| West North Central | 7,425 | 6,560 | 7,887 | 7,643 | 7,006 | 6,914 | 4 | 4 | 22,323 | 21,121 |
| Iowa | 1,050 | 927 | 953 | 889 | 1,901 | 1,773 | 0 | 0 | 3,905 | 3,589 |
| Kansas | 832 | 764 | 1,207 | 1,182 | 858 | 872 | 0 | 0 | 2,897 | 2,818 |
| Minnesota | 1,636 | 1,528 | 1,768 | 1,707 | 1,669 | 1,679 | 2 | 2 | 5,075 | 4,916 |
| Missouri | 2,368 | 2,009 | 2,323 | 2,293 | 901 | 939 | 2 | 2 | 5,594 | 5,242 |
| Nebraska | 739 | 657 | 722 | 744 | 802 | 794 | 0 | 0 | 2,262 | 2,195 |
| North Dakota | 407 | 341 | 525 | 479 | 658 | 639 | 0 | 0 | 1,590 | 1,459 |
| South Dakota | 393 | 334 | 389 | 349 | 217 | 218 | 0 | 0 | 1,000 | 902 |
| South Atlantic | 23,891 | 23,219 | 23,266 | 23,905 | 11,043 | 11,252 | 105 | 93 | 58,305 | 58,470 |
| Delaware | 378 | 326 | 336 | 319 | 166 | 150 | 0 | 0 | 880 | 796 |
| District of Columbia | 176 | 165 | 607 | 596 | 14 | 15 | 27 | 26 | 823 | 802 |
| Florida | 8,486 | 8,745 | 7,431 | 7,610 | 1,317 | 1,391 | 7 | 8 | 17,240 | 17,754 |
| Georgia | 3,514 | 3,667 | 3,455 | 3,635 | 2,527 | 2,591 | 14 | 14 | 9,509 | 9,907 |
| Maryland | 1,868 | 1,667 | 2,118 | 2,099 | 299 | 325 | 41 | 33 | 4,326 | 4,123 |
| North Carolina | 3,670 | 3,350 | 3,545 | 3,721 | 2,094 | 2,101 | 1 | 0 | 9,308 | 9,172 |
| South Carolina | 1,845 | 1,839 | 1,542 | 1,623 | 2,244 | 2,305 | 0 | 0 | 5,631 | 5,767 |
| Virginia | 3,120 | 2,776 | 3,679 | 3,748 | 1,295 | 1,325 | 17 | 13 | 8,110 | 7,861 |
| West Virginia | 834 | 683 | 554 | 555 | 1,088 | 1,049 | 0 | 0 | 2,476 | 2,287 |
| East South Central | 7,713 | 7,428 | 6,750 | 6,784 | 7,792 | 8,072 | 0 | 0 | 22,255 | 22,284 |
| Alabama | 1,924 | 2,045 | 1,633 | 1,751 | 2,697 | 2,700 | 0 | 0 | 6,254 | 6,496 |
| Kentucky | 1,787 | 1,577 | 1,392 | 1,409 | 2,229 | 2,241 | 0 | 0 | 5,408 | 5,228 |
| Mississippi | 1,126 | 1,168 | 999 | 1,050 | 1,368 | 1,336 | 0 | 0 | 3,492 | 3,554 |
| Tennessee | 2,876 | 2,638 | 2,726 | 2,574 | 1,498 | 1,794 | 0 | 0 | 7,100 | 7,006 |
| West South Central | 13,078 | 13,169 | 14,543 | 13,982 | 14,455 | 14,467 | 15 | 16 | 42,092 | 41,634 |
| Arkansas | 1,128 | 1,072 | 870 | 879 | 1,417 | 1,361 | 0 | 0 | 3,415 | 3,313 |
| Louisiana | 1,810 | 1,948 | 1,799 | 1,868 | 2,904 | 2,963 | 1 | 1 | 6,514 | 6,781 |
| Oklahoma | 1,395 | 1,287 | 1,556 | 1,494 | 1,468 | 1,457 | 0 | 0 | 4,419 | 4,238 |
| Texas | 8,745 | 8,861 | 10,318 | 9,741 | 8,665 | 8,686 | 15 | 14 | 27,743 | 27,302 |
| Mountain | 6,571 | 6,306 | 7,544 | 7,313 | 6,458 | 6,392 | 13 | 11 | 20,585 | 20,022 |
| Arizona | 2,258 | 2,121 | 2,344 | 2,245 | 1,090 | 1,157 | 1 | 1 | 5,693 | 5,523 |
| Colorado | 1,288 | 1,264 | 1,555 | 1,551 | 1,245 | 1,249 | 7 | 5 | 4,096 | 4,069 |
| Idaho | 596 | 599 | 481 | 468 | 602 | 525 | 0 | 0 | 1,680 | 1,592 |
| Montana | 421 | 374 | 401 | 393 | 363 | 348 | 0 | 0 | 1,185 | 1,116 |
| Nevada | 791 | 729 | 883 | 787 | 912 | 961 | 1 | 1 | 2,587 | 2,478 |
| New Mexico | 417 | 411 | 699 | 696 | 660 | 593 | 0 | 0 | 1,776 | 1,700 |
| Utah | 581 | 599 | 888 | 886 | 751 | 775 | 4 | 5 | 2,225 | 2,265 |
| Wyoming | 218 | 208 | 292 | 287 | 834 | 783 | 0 | 0 | 1,344 | 1,279 |
| Pacific Contiguous | 9,989 | 9,981 | 12,753 | 12,024 | 6,417 | 6,576 | 69 | 71 | 29,228 | 28,650 |
| California | 5,532 | 5,656 | 9,068 | 8,430 | 3,517 | 3,720 | 66 | 68 | 18,182 | 17,874 |
| Oregon | 1,517 | 1,458 | 1,326 | 1,282 | 929 | 945 | 2 | 2 | 3,774 | 3,687 |
| Washington | 2,940 | 2,867 | 2,360 | 2,312 | 1,971 | 1,911 | 1 | 0 | 7,272 | 7,090 |
| Pacific Noncontiguous | 376 | 364 | 469 | 480 | 390 | 407 | 0 | 0 | 1,235 | 1,251 |
| Alaska | 157 | 166 | 222 | 227 | 102 | 111 | 0 | 0 | 481 | 504 |
| Hawaii | 219 | 198 | 247 | 253 | 288 | 296 | 0 | 0 | 754 | 746 |
| U.S. Total | 95,132 | 90,966 | 102,941 | 101,796 | 75,342 | 75,917 | 608 | 590 | 274,023 | 269,269 |

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 preliminary estimates based on a cutoff model sample.
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-861M (formerly EIA-826), Monthly Electric Power Industry Report.

**Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through April 2018 and 2017 (Thousand Megawatthours)**

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 16,091 | 16,436 | 16,661 | 18,413 | 5,072 | 5,428 | 192 | 191 | 38,015 | 40,468 |
| Connecticut | 4,321 | 4,240 | 3,868 | 3,936 | 954 | 977 | 59 | 57 | 9,202 | 9,210 |
| Maine | 1,685 | 1,680 | 1,306 | 1,318 | 868 | 838 | 0 | 0 | 3,859 | 3,836 |
| Massachusetts | 6,789 | 7,284 | 8,249 | 9,940 | 1,938 | 2,298 | 124 | 124 | 17,099 | 19,647 |
| New Hampshire | 1,584 | 1,562 | 1,404 | 1,440 | 615 | 619 | 0 | 0 | 3,604 | 3,621 |
| Rhode Island | 958 | 955 | 1,181 | 1,135 | 245 | 241 | 9 | 10 | 2,392 | 2,341 |
| Vermont | 754 | 716 | 652 | 642 | 451 | 456 | 0 | 0 | 1,858 | 1,813 |
| Middle Atlantic | 44,979 | 41,894 | 50,743 | 49,765 | 23,505 | 23,150 | 1,398 | 1,330 | 120,625 | 116,139 |
| New Jersey | 8,524 | 8,069 | 12,197 | 11,963 | 2,233 | 2,303 | 111 | 105 | 23,065 | 22,439 |
| New York | 16,437 | 15,690 | 24,318 | 23,890 | 5,529 | 5,340 | 1,042 | 949 | 47,326 | 45,869 |
| Pennsylvania | 20,017 | 18,135 | 14,228 | 13,912 | 15,743 | 15,506 | 245 | 276 | 50,233 | 47,830 |
| East North Central | 62,839 | 57,220 | 58,740 | 57,530 | 59,604 | 59,187 | 212 | 189 | 181,394 | 174,126 |
| Illinois | 14,615 | 13,234 | 16,200 | 15,723 | 13,520 | 13,394 | 186 | 164 | 44,521 | 42,515 |
| Indiana | 11,406 | 9,957 | 7,606 | 7,390 | 13,280 | 13,104 | 7 | 7 | 32,299 | 30,458 |
| Michigan | 11,162 | 10,632 | 12,298 | 12,277 | 9,631 | 9,451 | 3 | 1 | 33,095 | 32,361 |
| Ohio | 18,185 | 16,226 | 14,867 | 14,515 | 15,471 | 15,563 | 15 | 17 | 48,538 | 46,321 |
| Wisconsin | 7,471 | 7,172 | 7,768 | 7,625 | 7,701 | 7,674 | 0 | 0 | 22,941 | 22,471 |
| West North Central | 36,856 | 33,349 | 33,298 | 32,130 | 27,922 | 27,468 | 19 | 17 | 98,096 | 92,964 |
| Iowa | 5,120 | 4,724 | 4,075 | 3,920 | 7,380 | 7,107 | 0 | 0 | 16,575 | 15,751 |
| Kansas | 4,118 | 3,675 | 4,852 | 4,668 | 3,466 | 3,437 | 0 | 0 | 12,436 | 11,779 |
| Minnesota | 7,756 | 7,507 | 7,505 | 7,385 | 6,713 | 6,656 | 10 | 9 | 21,984 | 21,557 |
| Missouri | 12,201 | 10,410 | 9,802 | 9,377 | 3,611 | 3,700 | 9 | 8 | 25,623 | 23,495 |
| Nebraska | 3,694 | 3,368 | 3,093 | 3,009 | 3,192 | 3,193 | 0 | 0 | 9,979 | 9,570 |
| North Dakota | 2,076 | 1,920 | 2,302 | 2,172 | 2,684 | 2,506 | 0 | 0 | 7,062 | 6,599 |
| South Dakota | 1,891 | 1,747 | 1,669 | 1,598 | 876 | 869 | 0 | 0 | 4,436 | 4,213 |
| South Atlantic | 117,461 | 103,448 | 96,222 | 94,553 | 44,010 | 43,845 | 415 | 423 | 258,108 | 242,269 |
| Delaware | 1,770 | 1,550 | 1,371 | 1,300 | 643 | 641 | 0 | 0 | 3,785 | 3,490 |
| District of Columbia | 839 | 753 | 2,595 | 2,488 | 56 | 55 | 102 | 103 | 3,592 | 3,398 |
| Florida | 35,672 | 32,949 | 28,613 | 28,456 | 5,168 | 5,281 | 25 | 30 | 69,477 | 66,716 |
| Georgia | 18,190 | 15,939 | 14,398 | 14,113 | 10,107 | 10,083 | 57 | 56 | 42,752 | 40,191 |
| Maryland | 9,828 | 8,594 | 9,340 | 8,999 | 1,148 | 1,190 | 170 | 176 | 20,487 | 18,958 |
| North Carolina | 20,037 | 16,969 | 14,878 | 14,575 | 8,306 | 8,336 | 1 | 1 | 43,223 | 39,881 |
| South Carolina | 9,961 | 8,459 | 6,540 | 6,439 | 8,612 | 8,647 | 0 | 0 | 25,113 | 23,545 |
| Virginia | 16,695 | 14,409 | 15,965 | 15,766 | 5,347 | 5,342 | 59 | 58 | 38,066 | 35,574 |
| West Virginia | 4,469 | 3,827 | 2,522 | 2,418 | 4,623 | 4,270 | 0 | 0 | 11,614 | 10,515 |
| East South Central | 40,813 | 34,909 | 28,485 | 27,030 | 31,220 | 32,096 | 0 | 0 | 100,517 | 94,034 |
| Alabama | 10,224 | 8,929 | 6,915 | 6,803 | 10,959 | 10,724 | 0 | 0 | 28,098 | 26,455 |
| Kentucky | 9,433 | 8,043 | 6,059 | 5,828 | 8,979 | 8,935 | 0 | 0 | 24,472 | 22,806 |
| Mississippi | 6,066 | 5,185 | 4,169 | 4,110 | 5,425 | 5,333 | 0 | 0 | 15,660 | 14,628 |
| Tennessee | 15,090 | 12,752 | 11,341 | 10,289 | 5,857 | 7,104 | 0 | 0 | 32,287 | 30,145 |
| West South Central | 67,784 | 58,292 | 59,370 | 56,358 | 56,386 | 57,630 | 62 | 61 | 183,602 | 172,342 |
| Arkansas | 6,292 | 5,349 | 3,619 | 3,553 | 5,546 | 5,270 | 0 | 0 | 15,458 | 14,173 |
| Louisiana | 9,560 | 8,334 | 7,516 | 7,385 | 11,106 | 11,068 | 4 | 4 | 28,186 | 26,790 |
| Oklahoma | 7,333 | 6,326 | 6,165 | 5,937 | 5,722 | 5,547 | 0 | 0 | 19,220 | 17,811 |
| Texas | 44,599 | 38,283 | 42,070 | 39,483 | 34,011 | 35,745 | 58 | 56 | 120,738 | 113,567 |
| Mountain | 28,089 | 28,325 | 29,963 | 29,463 | 25,238 | 25,277 | 52 | 47 | 83,342 | 83,111 |
| Arizona | 8,307 | 8,404 | 8,642 | 8,596 | 4,316 | 4,417 | 2 | 2 | 21,268 | 21,419 |
| Colorado | 5,867 | 5,835 | 6,448 | 6,407 | 4,991 | 4,844 | 30 | 22 | 17,337 | 17,108 |
| Idaho | 2,998 | 3,185 | 2,063 | 2,071 | 2,109 | 2,039 | 0 | 0 | 7,171 | 7,295 |
| Montana | 2,046 | 2,019 | 1,696 | 1,696 | 1,393 | 1,394 | 0 | 0 | 5,135 | 5,110 |
| Nevada | 3,116 | 3,110 | 3,482 | 3,185 | 3,672 | 3,896 | 3 | 3 | 10,273 | 10,194 |
| New Mexico | 2,021 | 1,990 | 2,773 | 2,699 | 2,460 | 2,316 | 0 | 0 | 7,253 | 7,005 |
| Utah | 2,674 | 2,711 | 3,608 | 3,546 | 2,911 | 3,026 | 17 | 20 | 9,209 | 9,303 |
| Wyoming | 1,060 | 1,071 | 1,250 | 1,261 | 3,386 | 3,345 | 0 | 0 | 5,696 | 5,677 |
| Pacific Contiguous | 46,990 | 49,513 | 50,856 | 50,814 | 25,559 | 25,595 | 270 | 279 | 123,674 | 126,200 |
| California | 25,553 | 26,974 | 35,459 | 35,173 | 14,023 | 14,081 | 258 | 269 | 75,293 | 76,497 |
| Oregon | 7,211 | 7,599 | 5,363 | 5,406 | 3,647 | 3,661 | 9 | 9 | 16,231 | 16,674 |
| Washington | 14,226 | 14,940 | 10,034 | 10,236 | 7,889 | 7,852 | 3 | 2 | 32,151 | 33,029 |
| Pacific Noncontiguous | 1,609 | 1,615 | 1,892 | 1,933 | 1,554 | 1,602 | 0 | 0 | 5,055 | 5,151 |
| Alaska | 757 | 796 | 944 | 968 | 449 | 461 | 0 | 0 | 2,150 | 2,224 |
| Hawaii | 852 | 820 | 948 | 965 | 1,105 | 1,141 | 0 | 0 | 2,905 | 2,926 |
| U.S. Total | 463,512 | 425,003 | 426,229 | 417,987 | 300,070 | 301,277 | 2,619 | 2,536 | 1,192,430 | 1,146,803 |

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 preliminary estimates based on a cutoff model sample.
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-861M (formerly EIA-826), Monthly Electric Power Industry Report.

**Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, April 2018 and 2017 (Million Dollars)**

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 709 | 698 | 627 | 641 | 160 | 162 | 4 | 3 | 1,499 | 1,504 |
| Connecticut | 196 | 192 | 152 | 153 | 32 | 32 | 2 | 1 | 382 | 379 |
| Maine | 59 | 59 | 36 | 35 | 19 | 19 | 0 | 0 | 114 | 114 |
| Massachusetts | 313 | 310 | 319 | 337 | 68 | 74 | 2 | 2 | 701 | 722 |
| New Hampshire | 67 | 69 | 51 | 52 | 20 | 18 | 0 | 0 | 139 | 138 |
| Rhode Island | 45 | 41 | 45 | 41 | 9 | 8 | 0 | 0 | 99 | 91 |
| Vermont | 29 | 27 | 24 | 23 | 11 | 11 | 0 | 0 | 63 | 60 |
| Middle Atlantic | 1,511 | 1,382 | 1,396 | 1,420 | 386 | 405 | 34 | 34 | 3,327 | 3,241 |
| New Jersey | 282 | 264 | 334 | 344 | 51 | 54 | 2 | 2 | 669 | 665 |
| New York | 643 | 595 | 770 | 776 | 76 | 85 | 27 | 27 | 1,516 | 1,484 |
| Pennsylvania | 587 | 523 | 291 | 300 | 259 | 266 | 4 | 4 | 1,141 | 1,093 |
| East North Central | 1,774 | 1,564 | 1,411 | 1,373 | 1,023 | 1,019 | 3 | 3 | 4,212 | 3,959 |
| Illinois | 397 | 351 | 337 | 324 | 214 | 211 | 3 | 2 | 950 | 889 |
| Indiana | 278 | 244 | 185 | 182 | 239 | 241 | 0 | 0 | 702 | 667 |
| Michigan | 387 | 341 | 340 | 324 | 169 | 170 | 0 | 0 | 896 | 834 |
| Ohio | 472 | 404 | 349 | 351 | 257 | 250 | 0 | 0 | 1,078 | 1,005 |
| Wisconsin | 240 | 224 | 201 | 192 | 145 | 148 | 0 | 0 | 585 | 565 |
| West North Central | 860 | 779 | 733 | 723 | 477 | 484 | 0 | 0 | 2,071 | 1,987 |
| Iowa | 129 | 113 | 88 | 80 | 111 | 95 | 0 | 0 | 327 | 288 |
| Kansas | 113 | 104 | 128 | 124 | 60 | 66 | 0 | 0 | 300 | 294 |
| Minnesota | 211 | 199 | 175 | 181 | 117 | 129 | 0 | 0 | 502 | 509 |
| Missouri | 245 | 219 | 198 | 196 | 57 | 61 | 0 | 0 | 500 | 476 |
| Nebraska | 78 | 70 | 63 | 65 | 60 | 60 | 0 | 0 | 201 | 195 |
| North Dakota | 41 | 35 | 47 | 44 | 56 | 56 | 0 | 0 | 144 | 135 |
| South Dakota | 44 | 39 | 36 | 34 | 16 | 17 | 0 | 0 | 96 | 89 |
| South Atlantic | 2,825 | 2,764 | 2,175 | 2,251 | 694 | 712 | 8 | 7 | 5,703 | 5,734 |
| Delaware | 49 | 44 | 32 | 32 | 12 | 12 | 0 | 0 | 93 | 88 |
| District of Columbia | 24 | 22 | 77 | 71 | 1 | 1 | 3 | 3 | 105 | 96 |
| Florida | 964 | 1,013 | 686 | 726 | 99 | 107 | 1 | 1 | 1,749 | 1,847 |
| Georgia | 393 | 421 | 330 | 365 | 139 | 147 | 1 | 1 | 862 | 934 |
| Maryland | 250 | 239 | 222 | 232 | 25 | 27 | 3 | 2 | 500 | 500 |
| North Carolina | 436 | 383 | 307 | 305 | 127 | 125 | 0 | 0 | 870 | 813 |
| South Carolina | 244 | 242 | 162 | 170 | 131 | 136 | 0 | 0 | 536 | 547 |
| Virginia | 370 | 319 | 306 | 295 | 88 | 85 | 1 | 1 | 765 | 700 |
| West Virginia | 96 | 81 | 53 | 55 | 72 | 71 | 0 | 0 | 221 | 207 |
| East South Central | 884 | 847 | 714 | 712 | 443 | 473 | 0 | 0 | 2,041 | 2,032 |
| Alabama | 246 | 260 | 186 | 200 | 159 | 163 | 0 | 0 | 591 | 623 |
| Kentucky | 190 | 170 | 137 | 137 | 120 | 124 | 0 | 0 | 447 | 431 |
| Mississippi | 137 | 136 | 109 | 110 | 80 | 81 | 0 | 0 | 326 | 327 |
| Tennessee | 311 | 282 | 282 | 264 | 84 | 104 | 0 | 0 | 677 | 650 |
| West South Central | 1,463 | 1,444 | 1,191 | 1,176 | 751 | 784 | 1 | 1 | 3,407 | 3,406 |
| Arkansas | 113 | 111 | 65 | 75 | 72 | 77 | 0 | 0 | 250 | 263 |
| Louisiana | 177 | 182 | 166 | 166 | 155 | 150 | 0 | 0 | 499 | 498 |
| Oklahoma | 154 | 152 | 118 | 120 | 73 | 76 | 0 | 0 | 345 | 348 |
| Texas | 1,019 | 998 | 842 | 815 | 450 | 481 | 1 | 1 | 2,312 | 2,296 |
| Mountain | 794 | 746 | 718 | 693 | 392 | 385 | 1 | 1 | 1,905 | 1,824 |
| Arizona | 296 | 265 | 245 | 230 | 65 | 70 | 0 | 0 | 606 | 565 |
| Colorado | 155 | 151 | 156 | 149 | 89 | 88 | 1 | 1 | 401 | 389 |
| Idaho | 60 | 59 | 39 | 37 | 37 | 31 | 0 | 0 | 136 | 127 |
| Montana | 46 | 41 | 41 | 40 | 17 | 16 | 0 | 0 | 104 | 97 |
| Nevada | 98 | 90 | 68 | 63 | 48 | 49 | 0 | 0 | 214 | 202 |
| New Mexico | 52 | 52 | 68 | 69 | 38 | 36 | 0 | 0 | 159 | 157 |
| Utah | 61 | 65 | 73 | 75 | 40 | 40 | 0 | 1 | 175 | 180 |
| Wyoming | 25 | 24 | 29 | 29 | 57 | 54 | 0 | 0 | 110 | 106 |
| Pacific Contiguous | 1,340 | 1,223 | 1,667 | 1,483 | 537 | 512 | 6 | 6 | 3,551 | 3,224 |
| California | 889 | 797 | 1,343 | 1,175 | 388 | 368 | 6 | 6 | 2,626 | 2,345 |
| Oregon | 165 | 156 | 120 | 114 | 56 | 55 | 0 | 0 | 341 | 325 |
| Washington | 286 | 271 | 204 | 193 | 94 | 90 | 0 | 0 | 584 | 554 |
| Pacific Noncontiguous | 102 | 96 | 112 | 113 | 91 | 84 | 0 | 0 | 305 | 293 |
| Alaska | 34 | 36 | 41 | 46 | 19 | 18 | 0 | 0 | 94 | 99 |
| Hawaii | 68 | 60 | 71 | 67 | 72 | 67 | 0 | 0 | 211 | 194 |
| U.S. Total | 12,263 | 11,542 | 10,745 | 10,584 | 4,955 | 5,021 | 58 | 56 | 28,021 | 27,203 |

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 preliminary estimates based on a cutoff model sample.
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-861M (formerly EIA-826), Monthly Electric Power Industry Report.

**Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through April 2018 and 2017 (Million Dollars)**

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 3,298 | 3,075 | 2,736 | 2,688 | 675 | 669 | 20 | 17 | 6,729 | 6,449 |
| Connecticut | 903 | 840 | 651 | 624 | 136 | 128 | 9 | 6 | 1,700 | 1,598 |
| Maine | 268 | 268 | 162 | 163 | 81 | 79 | 0 | 0 | 511 | 510 |
| Massachusetts | 1,479 | 1,367 | 1,400 | 1,423 | 287 | 303 | 10 | 9 | 3,176 | 3,102 |
| New Hampshire | 311 | 293 | 223 | 210 | 85 | 77 | 0 | 0 | 619 | 580 |
| Rhode Island | 203 | 182 | 200 | 176 | 38 | 35 | 2 | 2 | 443 | 394 |
| Vermont | 134 | 124 | 99 | 93 | 48 | 46 | 0 | 0 | 280 | 264 |
| Middle Atlantic | 7,045 | 6,538 | 6,079 | 6,012 | 1,658 | 1,605 | 149 | 143 | 14,930 | 14,298 |
| New Jersey | 1,329 | 1,268 | 1,461 | 1,442 | 228 | 230 | 10 | 9 | 3,027 | 2,949 |
| New York | 2,935 | 2,711 | 3,329 | 3,303 | 333 | 302 | 121 | 114 | 6,718 | 6,429 |
| Pennsylvania | 2,780 | 2,559 | 1,289 | 1,266 | 1,097 | 1,073 | 18 | 20 | 5,184 | 4,919 |
| East North Central | 8,204 | 7,454 | 5,942 | 5,783 | 4,202 | 4,151 | 14 | 12 | 18,362 | 17,401 |
| Illinois | 1,840 | 1,654 | 1,451 | 1,393 | 906 | 861 | 12 | 10 | 4,209 | 3,918 |
| Indiana | 1,332 | 1,177 | 785 | 760 | 951 | 970 | 1 | 1 | 3,068 | 2,907 |
| Michigan | 1,731 | 1,632 | 1,381 | 1,349 | 709 | 694 | 0 | 0 | 3,821 | 3,675 |
| Ohio | 2,231 | 1,962 | 1,484 | 1,451 | 1,052 | 1,040 | 1 | 1 | 4,767 | 4,454 |
| Wisconsin | 1,070 | 1,030 | 841 | 830 | 585 | 587 | 0 | 0 | 2,496 | 2,447 |
| West North Central | 4,071 | 3,709 | 3,064 | 2,955 | 1,951 | 1,900 | 2 | 1 | 9,087 | 8,565 |
| Iowa | 596 | 537 | 374 | 341 | 437 | 384 | 0 | 0 | 1,407 | 1,262 |
| Kansas | 530 | 471 | 502 | 475 | 252 | 256 | 0 | 0 | 1,284 | 1,202 |
| Minnesota | 979 | 946 | 741 | 755 | 496 | 505 | 1 | 1 | 2,217 | 2,206 |
| Missouri | 1,202 | 1,046 | 827 | 783 | 232 | 235 | 1 | 1 | 2,261 | 2,065 |
| Nebraska | 364 | 337 | 266 | 259 | 239 | 238 | 0 | 0 | 868 | 835 |
| North Dakota | 195 | 182 | 200 | 194 | 227 | 215 | 0 | 0 | 623 | 591 |
| South Dakota | 205 | 190 | 154 | 148 | 67 | 67 | 0 | 0 | 427 | 404 |
| South Atlantic | 13,688 | 12,143 | 9,146 | 8,920 | 2,820 | 2,770 | 31 | 33 | 25,686 | 23,867 |
| Delaware | 219 | 208 | 129 | 134 | 51 | 52 | 0 | 0 | 399 | 393 |
| District of Columbia | 108 | 96 | 307 | 291 | 5 | 5 | 9 | 10 | 428 | 402 |
| Florida | 4,222 | 3,838 | 2,768 | 2,729 | 407 | 413 | 2 | 3 | 7,400 | 6,982 |
| Georgia | 1,993 | 1,810 | 1,410 | 1,411 | 576 | 562 | 3 | 3 | 3,982 | 3,786 |
| Maryland | 1,292 | 1,226 | 993 | 998 | 100 | 100 | 12 | 14 | 2,396 | 2,338 |
| North Carolina | 2,211 | 1,858 | 1,298 | 1,231 | 508 | 497 | 0 | 0 | 4,018 | 3,585 |
| South Carolina | 1,235 | 1,069 | 666 | 668 | 503 | 507 | 0 | 0 | 2,404 | 2,244 |
| Virginia | 1,904 | 1,597 | 1,333 | 1,222 | 365 | 347 | 5 | 4 | 3,607 | 3,171 |
| West Virginia | 505 | 441 | 242 | 237 | 305 | 289 | 0 | 0 | 1,051 | 967 |
| East South Central | 4,479 | 3,892 | 2,998 | 2,853 | 1,787 | 1,891 | 0 | 0 | 9,264 | 8,637 |
| Alabama | 1,247 | 1,124 | 786 | 792 | 640 | 643 | 0 | 0 | 2,673 | 2,559 |
| Kentucky | 967 | 844 | 580 | 563 | 487 | 501 | 0 | 0 | 2,034 | 1,907 |
| Mississippi | 684 | 579 | 450 | 426 | 324 | 324 | 0 | 0 | 1,458 | 1,329 |
| Tennessee | 1,581 | 1,345 | 1,181 | 1,073 | 336 | 423 | 0 | 0 | 3,098 | 2,841 |
| West South Central | 7,226 | 6,202 | 4,948 | 4,723 | 3,029 | 3,065 | 5 | 5 | 15,208 | 13,996 |
| Arkansas | 618 | 520 | 301 | 291 | 311 | 293 | 0 | 0 | 1,231 | 1,104 |
| Louisiana | 879 | 742 | 685 | 642 | 589 | 556 | 0 | 0 | 2,153 | 1,941 |
| Oklahoma | 727 | 659 | 474 | 464 | 289 | 286 | 0 | 0 | 1,490 | 1,409 |
| Texas | 5,002 | 4,281 | 3,488 | 3,327 | 1,839 | 1,930 | 5 | 5 | 10,334 | 9,543 |
| Mountain | 3,284 | 3,229 | 2,793 | 2,717 | 1,538 | 1,533 | 5 | 5 | 7,619 | 7,483 |
| Arizona | 1,038 | 990 | 880 | 848 | 258 | 261 | 0 | 0 | 2,177 | 2,099 |
| Colorado | 689 | 688 | 619 | 606 | 354 | 344 | 3 | 2 | 1,666 | 1,640 |
| Idaho | 304 | 306 | 164 | 159 | 126 | 119 | 0 | 0 | 594 | 584 |
| Montana | 221 | 216 | 170 | 170 | 68 | 67 | 0 | 0 | 459 | 453 |
| Nevada | 388 | 372 | 278 | 252 | 196 | 196 | 0 | 0 | 863 | 820 |
| New Mexico | 249 | 249 | 269 | 266 | 143 | 140 | 0 | 0 | 661 | 655 |
| Utah | 279 | 291 | 293 | 296 | 162 | 173 | 2 | 2 | 736 | 761 |
| Wyoming | 116 | 117 | 119 | 121 | 230 | 233 | 0 | 0 | 466 | 470 |
| Pacific Contiguous | 6,837 | 6,960 | 6,569 | 6,344 | 2,190 | 2,077 | 23 | 23 | 15,619 | 15,404 |
| California | 4,700 | 4,773 | 5,212 | 5,003 | 1,605 | 1,498 | 22 | 22 | 11,539 | 11,296 |
| Oregon | 772 | 798 | 479 | 478 | 219 | 221 | 1 | 1 | 1,470 | 1,499 |
| Washington | 1,365 | 1,389 | 878 | 863 | 366 | 359 | 0 | 0 | 2,610 | 2,610 |
| Pacific Noncontiguous | 431 | 407 | 453 | 442 | 357 | 335 | 0 | 0 | 1,240 | 1,183 |
| Alaska | 162 | 167 | 177 | 187 | 78 | 78 | 0 | 0 | 417 | 432 |
| Hawaii | 268 | 240 | 276 | 255 | 279 | 257 | 0 | 0 | 823 | 752 |
| U.S. Total | 58,563 | 53,609 | 44,727 | 43,437 | 20,205 | 19,997 | 249 | 239 | 123,744 | 117,283 |

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 preliminary estimates based on a cutoff model sample.
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-861M (formerly EIA-826), Monthly Electric Power Industry Report.

**Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, April 2018 and 2017 (Cents per Kilowatthour)**

| | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 20.79 | 19.18 | 15.99 | 14.48 | 12.75 | 12.16 | 8.24 | 7.98 | 17.38 | 15.94 |
| Connecticut | 21.44 | 20.12 | 16.67 | 15.81 | 13.70 | 12.94 | 11.70 | 12.32 | 18.40 | 17.35 |
| Maine | 15.74 | 16.05 | 12.09 | 11.83 | 8.49 | 9.30 | -- | -- | 12.71 | 13.03 |
| Massachusetts | 22.34 | 19.48 | 16.36 | 14.15 | 14.42 | 13.02 | 5.86 | 5.63 | 18.23 | 15.81 |
| New Hampshire | 19.80 | 18.97 | 15.78 | 14.48 | 13.36 | 12.18 | -- | -- | 16.99 | 15.97 |
| Rhode Island | 20.47 | 19.57 | 16.08 | 15.44 | 14.85 | 14.43 | 17.49 | 19.70 | 17.65 | 16.96 |
| Vermont | 17.92 | 17.72 | 15.07 | 14.73 | 10.21 | 9.94 | -- | -- | 14.89 | 14.58 |
| Middle Atlantic | 15.84 | 15.81 | 11.68 | 12.11 | 6.62 | 6.91 | 10.84 | 10.89 | 12.04 | 12.17 |
| New Jersey | 15.59 | 15.75 | 11.72 | 12.22 | 9.52 | 10.00 | 8.93 | 9.47 | 12.82 | 13.14 |
| New York | 18.00 | 17.30 | 13.33 | 13.79 | 5.58 | 5.88 | 12.09 | 11.92 | 13.86 | 13.81 |
| Pennsylvania | 14.10 | 14.42 | 8.78 | 9.13 | 6.59 | 6.87 | 6.92 | 7.57 | 9.95 | 10.09 |
| East North Central | 13.50 | 13.53 | 10.18 | 10.16 | 6.97 | 6.96 | 6.70 | 6.40 | 10.09 | 9.96 |
| Illinois | 13.04 | 13.20 | 8.95 | 9.04 | 6.47 | 6.31 | 6.42 | 6.06 | 9.36 | 9.23 |
| Indiana | 12.31 | 12.57 | 10.40 | 10.41 | 7.16 | 7.47 | 11.00 | 11.96 | 9.52 | 9.64 |
| Michigan | 15.67 | 15.40 | 11.23 | 10.81 | 7.31 | 7.28 | 11.12 | 12.65 | 11.47 | 11.07 |
| Ohio | 12.66 | 12.52 | 10.09 | 10.27 | 6.73 | 6.53 | 7.27 | 7.33 | 9.79 | 9.60 |
| Wisconsin | 14.69 | 14.75 | 10.90 | 10.85 | 7.55 | 7.69 | 14.35 | 15.29 | 10.86 | 10.81 |
| West North Central | 11.59 | 11.88 | 9.30 | 9.46 | 6.81 | 7.00 | 8.30 | 8.22 | 9.28 | 9.41 |
| Iowa | 12.24 | 12.19 | 9.23 | 8.96 | 5.82 | 5.38 | -- | -- | 8.38 | 8.02 |
| Kansas | 13.59 | 13.58 | 10.58 | 10.53 | 6.97 | 7.60 | -- | -- | 10.37 | 10.45 |
| Minnesota | 12.88 | 13.03 | 9.88 | 10.59 | 7.00 | 7.69 | 9.32 | 9.28 | 9.90 | 10.36 |
| Missouri | 10.36 | 10.90 | 8.51 | 8.55 | 6.31 | 6.46 | 7.19 | 7.17 | 8.94 | 9.08 |
| Nebraska | 10.55 | 10.69 | 8.74 | 8.72 | 7.53 | 7.60 | -- | -- | 8.90 | 8.90 |
| North Dakota | 10.03 | 10.39 | 8.89 | 9.12 | 8.51 | 8.71 | -- | -- | 9.03 | 9.24 |
| South Dakota | 11.23 | 11.67 | 9.15 | 9.63 | 7.58 | 7.67 | -- | -- | 9.63 | 9.91 |
| South Atlantic | 11.83 | 11.90 | 9.35 | 9.42 | 6.29 | 6.33 | 8.03 | 7.80 | 9.78 | 9.81 |
| Delaware | 12.85 | 13.62 | 9.67 | 9.93 | 7.46 | 8.11 | -- | -- | 10.62 | 11.10 |
| District of Columbia | 13.72 | 13.09 | 12.67 | 11.92 | 8.37 | 8.47 | 10.95 | 9.63 | 12.77 | 12.02 |
| Florida | 11.36 | 11.58 | 9.23 | 9.55 | 7.55 | 7.71 | 7.81 | 8.51 | 10.15 | 10.40 |
| Georgia | 11.19 | 11.49 | 9.54 | 10.03 | 5.49 | 5.69 | 4.49 | 5.14 | 9.07 | 9.43 |
| Maryland | 13.37 | 14.33 | 10.48 | 11.07 | 8.35 | 8.28 | 7.18 | 7.15 | 11.55 | 12.14 |
| North Carolina | 11.89 | 11.43 | 8.66 | 8.20 | 6.05 | 5.95 | 8.04 | 8.54 | 9.35 | 8.87 |
| South Carolina | 13.21 | 13.13 | 10.48 | 10.48 | 5.84 | 5.89 | -- | -- | 9.53 | 9.49 |
| Virginia | 11.85 | 11.50 | 8.32 | 7.86 | 6.80 | 6.41 | 8.46 | 8.06 | 9.43 | 8.90 |
| West Virginia | 11.47 | 11.87 | 9.64 | 9.94 | 6.63 | 6.78 | -- | -- | 8.93 | 9.07 |
| East South Central | 11.46 | 11.40 | 10.58 | 10.50 | 5.69 | 5.86 | -- | -- | 9.17 | 9.12 |
| Alabama | 12.79 | 12.71 | 11.42 | 11.44 | 5.89 | 6.04 | -- | -- | 9.46 | 9.59 |
| Kentucky | 10.62 | 10.76 | 9.81 | 9.76 | 5.40 | 5.54 | -- | -- | 8.26 | 8.25 |
| Mississippi | 12.17 | 11.64 | 10.89 | 10.47 | 5.88 | 6.09 | -- | -- | 9.34 | 9.21 |
| Tennessee | 10.81 | 10.68 | 10.35 | 10.27 | 5.58 | 5.80 | -- | -- | 9.53 | 9.28 |
| West South Central | 11.19 | 10.97 | 8.19 | 8.41 | 5.20 | 5.42 | 8.70 | 8.32 | 8.09 | 8.18 |
| Arkansas | 10.00 | 10.40 | 7.51 | 8.50 | 5.08 | 5.64 | 10.16 | 11.04 | 7.32 | 7.94 |
| Louisiana | 9.80 | 9.35 | 9.23 | 8.87 | 5.35 | 5.07 | 11.11 | 9.85 | 7.66 | 7.35 |
| Oklahoma | 11.05 | 11.83 | 7.59 | 8.04 | 4.99 | 5.22 | -- | -- | 7.82 | 8.22 |
| Texas | 11.65 | 11.26 | 8.16 | 8.37 | 5.20 | 5.54 | 8.58 | 8.20 | 8.33 | 8.41 |
| Mountain | 12.08 | 11.82 | 9.52 | 9.48 | 6.07 | 6.02 | 9.65 | 9.79 | 9.26 | 9.11 |
| Arizona | 13.09 | 12.49 | 10.44 | 10.23 | 6.00 | 6.07 | 9.27 | 8.93 | 10.64 | 10.23 |
| Colorado | 12.06 | 11.95 | 10.02 | 9.64 | 7.18 | 7.08 | 9.27 | 9.79 | 9.80 | 9.57 |
| Idaho | 10.13 | 9.77 | 8.04 | 7.99 | 6.16 | 5.86 | -- | -- | 8.11 | 7.96 |
| Montana | 11.02 | 10.93 | 10.13 | 10.22 | 4.73 | 4.64 | -- | -- | 8.79 | 8.72 |
| Nevada | 12.34 | 12.32 | 7.73 | 8.02 | 5.25 | 5.14 | 7.82 | 8.11 | 8.27 | 8.17 |
| New Mexico | 12.58 | 12.63 | 9.78 | 9.97 | 5.80 | 6.07 | -- | -- | 8.96 | 9.25 |
| Utah | 10.52 | 10.78 | 8.24 | 8.47 | 5.37 | 5.18 | 10.66 | 10.10 | 7.87 | 7.96 |
| Wyoming | 11.29 | 11.53 | 9.78 | 9.97 | 6.79 | 6.85 | -- | -- | 8.17 | 8.31 |
| Pacific Contiguous | 13.42 | 12.25 | 13.08 | 12.33 | 8.37 | 7.79 | 8.87 | 8.19 | 12.15 | 11.25 |
| California | 16.08 | 14.08 | 14.81 | 13.94 | 11.03 | 9.89 | 8.85 | 8.14 | 14.44 | 13.12 |
| Oregon | 10.86 | 10.68 | 9.07 | 8.91 | 6.00 | 5.78 | 9.32 | 9.42 | 9.04 | 8.81 |
| Washington | 9.74 | 9.44 | 8.66 | 8.37 | 4.75 | 4.70 | 9.60 | 9.00 | 8.04 | 7.81 |
| Pacific Noncontiguous | 27.20 | 26.27 | 23.94 | 23.57 | 23.23 | 20.71 | -- | -- | 24.71 | 23.42 |
| Alaska | 21.61 | 21.42 | 18.52 | 20.35 | 18.21 | 15.84 | -- | -- | 19.46 | 19.71 |
| Hawaii | 31.21 | 30.33 | 28.83 | 26.46 | 25.00 | 22.54 | -- | -- | 28.06 | 25.93 |
| U.S. Total | 12.89 | 12.69 | 10.44 | 10.40 | 6.58 | 6.61 | 9.53 | 9.44 | 10.23 | 10.10 |

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 preliminary estimates based on a cutoff model sample.
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-861M (formerly EIA-826), Monthly Electric Power Industry Report.

**Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through April 2018 and 2017 (Cents per Kilowatthour)**

| | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD | April 2018 YTD | April 2017 YTD |
| New England | 20.50 | 18.71 | 16.42 | 14.60 | 13.31 | 12.33 | 10.30 | 8.80 | 17.70 | 15.94 |
| Connecticut | 20.91 | 19.81 | 16.84 | 15.85 | 14.27 | 13.14 | 14.79 | 10.93 | 18.47 | 17.36 |
| Maine | 15.90 | 15.98 | 12.44 | 12.33 | 9.31 | 9.47 | -- | -- | 13.25 | 13.30 |
| Massachusetts | 21.78 | 18.77 | 16.98 | 14.32 | 14.82 | 13.21 | 7.70 | 7.01 | 18.57 | 15.79 |
| New Hampshire | 19.66 | 18.78 | 15.90 | 14.59 | 13.76 | 12.45 | -- | -- | 17.19 | 16.03 |
| Rhode Island | 21.21 | 19.01 | 16.93 | 15.48 | 15.69 | 14.40 | 16.70 | 19.24 | 18.51 | 16.83 |
| Vermont | 17.70 | 17.39 | 15.10 | 14.48 | 10.56 | 10.12 | -- | -- | 15.05 | 14.53 |
| Middle Atlantic | 15.66 | 15.61 | 11.98 | 12.08 | 7.05 | 6.93 | 10.64 | 10.74 | 12.38 | 12.31 |
| New Jersey | 15.59 | 15.71 | 11.98 | 12.06 | 10.21 | 9.99 | 8.58 | 8.94 | 13.13 | 13.14 |
| New York | 17.86 | 17.28 | 13.69 | 13.83 | 6.03 | 5.65 | 11.64 | 11.97 | 14.20 | 14.02 |
| Pennsylvania | 13.89 | 14.11 | 9.06 | 9.10 | 6.97 | 6.92 | 7.28 | 7.22 | 10.32 | 10.28 |
| East North Central | 13.06 | 13.03 | 10.12 | 10.05 | 7.05 | 7.01 | 6.81 | 6.59 | 10.12 | 9.99 |
| Illinois | 12.59 | 12.49 | 8.95 | 8.86 | 6.70 | 6.43 | 6.58 | 6.24 | 9.45 | 9.22 |
| Indiana | 11.68 | 11.82 | 10.32 | 10.28 | 7.16 | 7.40 | 10.57 | 11.52 | 9.50 | 9.55 |
| Michigan | 15.51 | 15.35 | 11.23 | 10.99 | 7.36 | 7.35 | 10.92 | 12.26 | 11.55 | 11.36 |
| Ohio | 12.27 | 12.09 | 9.98 | 10.00 | 6.80 | 6.68 | 7.01 | 7.57 | 9.82 | 9.62 |
| Wisconsin | 14.32 | 14.36 | 10.83 | 10.89 | 7.59 | 7.64 | 13.77 | 14.26 | 10.88 | 10.89 |
| West North Central | 11.04 | 11.12 | 9.20 | 9.20 | 6.99 | 6.92 | 8.13 | 8.08 | 9.26 | 9.21 |
| Iowa | 11.64 | 11.36 | 9.18 | 8.69 | 5.92 | 5.41 | -- | -- | 8.49 | 8.01 |
| Kansas | 12.87 | 12.82 | 10.34 | 10.19 | 7.27 | 7.44 | -- | -- | 10.32 | 10.21 |
| Minnesota | 12.62 | 12.60 | 9.87 | 10.22 | 7.39 | 7.58 | 9.20 | 9.34 | 10.08 | 10.23 |
| Missouri | 9.85 | 10.05 | 8.44 | 8.35 | 6.43 | 6.36 | 6.93 | 6.79 | 8.83 | 8.79 |
| Nebraska | 9.85 | 10.01 | 8.59 | 8.62 | 7.48 | 7.45 | -- | -- | 8.70 | 8.72 |
| North Dakota | 9.40 | 9.49 | 8.71 | 8.91 | 8.48 | 8.59 | -- | -- | 8.82 | 8.96 |
| South Dakota | 10.86 | 10.86 | 9.22 | 9.27 | 7.71 | 7.66 | -- | -- | 9.62 | 9.60 |
| South Atlantic | 11.65 | 11.74 | 9.51 | 9.43 | 6.41 | 6.32 | 7.51 | 7.89 | 9.95 | 9.85 |
| Delaware | 12.38 | 13.39 | 9.44 | 10.28 | 7.91 | 8.04 | -- | -- | 10.55 | 11.25 |
| District of Columbia | 12.82 | 12.80 | 11.82 | 11.70 | 8.23 | 8.26 | 8.84 | 9.54 | 11.92 | 11.83 |
| Florida | 11.84 | 11.65 | 9.67 | 9.59 | 7.88 | 7.81 | 8.17 | 8.51 | 10.65 | 10.46 |
| Georgia | 10.96 | 11.36 | 9.79 | 10.00 | 5.70 | 5.57 | 5.37 | 4.95 | 9.31 | 9.42 |
| Maryland | 13.15 | 14.27 | 10.63 | 11.09 | 8.67 | 8.42 | 7.00 | 7.79 | 11.70 | 12.33 |
| North Carolina | 11.04 | 10.95 | 8.72 | 8.45 | 6.12 | 5.96 | 8.40 | 8.93 | 9.30 | 8.99 |
| South Carolina | 12.39 | 12.63 | 10.19 | 10.38 | 5.84 | 5.86 | -- | -- | 9.57 | 9.53 |
| Virginia | 11.40 | 11.09 | 8.35 | 7.75 | 6.83 | 6.50 | 8.43 | 7.80 | 9.48 | 8.91 |
| West Virginia | 11.29 | 11.53 | 9.58 | 9.78 | 6.60 | 6.77 | -- | -- | 9.05 | 9.19 |
| East South Central | 10.97 | 11.15 | 10.53 | 10.56 | 5.72 | 5.89 | -- | -- | 9.22 | 9.18 |
| Alabama | 12.20 | 12.59 | 11.37 | 11.64 | 5.84 | 6.00 | -- | -- | 9.51 | 9.67 |
| Kentucky | 10.25 | 10.49 | 9.58 | 9.65 | 5.42 | 5.60 | -- | -- | 8.31 | 8.36 |
| Mississippi | 11.27 | 11.17 | 10.80 | 10.36 | 5.97 | 6.08 | -- | -- | 9.31 | 9.09 |
| Tennessee | 10.48 | 10.55 | 10.41 | 10.43 | 5.74 | 5.95 | -- | -- | 9.60 | 9.42 |
| West South Central | 10.66 | 10.64 | 8.33 | 8.38 | 5.37 | 5.32 | 8.56 | 8.46 | 8.28 | 8.12 |
| Arkansas | 9.83 | 9.72 | 8.32 | 8.18 | 5.61 | 5.56 | 11.46 | 11.60 | 7.96 | 7.79 |
| Louisiana | 9.19 | 8.90 | 9.11 | 8.69 | 5.30 | 5.03 | 10.19 | 10.02 | 7.64 | 7.24 |
| Oklahoma | 9.91 | 10.42 | 7.68 | 7.81 | 5.05 | 5.16 | -- | -- | 7.75 | 7.91 |
| Texas | 11.22 | 11.18 | 8.29 | 8.43 | 5.41 | 5.40 | 8.44 | 8.34 | 8.56 | 8.40 |
| Mountain | 11.69 | 11.40 | 9.32 | 9.22 | 6.09 | 6.06 | 9.48 | 9.81 | 9.14 | 9.00 |
| Arizona | 12.49 | 11.78 | 10.19 | 9.86 | 5.99 | 5.91 | 9.07 | 8.70 | 10.23 | 9.80 |
| Colorado | 11.75 | 11.80 | 9.61 | 9.45 | 7.10 | 7.10 | 8.98 | 9.97 | 9.61 | 9.59 |
| Idaho | 10.14 | 9.60 | 7.94 | 7.68 | 5.95 | 5.84 | -- | -- | 8.28 | 8.00 |
| Montana | 10.80 | 10.70 | 10.00 | 10.02 | 4.88 | 4.84 | -- | -- | 8.93 | 8.87 |
| Nevada | 12.45 | 11.96 | 8.00 | 7.90 | 5.34 | 5.03 | 7.93 | 7.84 | 8.40 | 8.04 |
| New Mexico | 12.30 | 12.52 | 9.69 | 9.86 | 5.83 | 6.04 | -- | -- | 9.11 | 9.35 |
| Utah | 10.42 | 10.73 | 8.13 | 8.34 | 5.57 | 5.70 | 10.68 | 10.01 | 7.99 | 8.18 |
| Wyoming | 10.99 | 10.89 | 9.54 | 9.56 | 6.80 | 6.97 | -- | -- | 8.18 | 8.29 |
| Pacific Contiguous | 14.55 | 14.06 | 12.92 | 12.48 | 8.57 | 8.12 | 8.67 | 8.16 | 12.63 | 12.21 |
| California | 18.39 | 17.70 | 14.70 | 14.22 | 11.44 | 10.64 | 8.64 | 8.12 | 15.33 | 14.77 |
| Oregon | 10.70 | 10.51 | 8.92 | 8.85 | 5.99 | 6.04 | 9.24 | 9.25 | 9.06 | 8.99 |
| Washington | 9.60 | 9.29 | 8.75 | 8.43 | 4.64 | 4.57 | 9.74 | 9.48 | 8.12 | 7.90 |
| Pacific Noncontiguous | 26.77 | 25.19 | 23.92 | 22.87 | 22.96 | 20.88 | -- | -- | 24.53 | 22.98 |
| Alaska | 21.46 | 21.01 | 18.74 | 19.29 | 17.34 | 16.88 | -- | -- | 19.41 | 19.41 |
| Hawaii | 31.48 | 29.24 | 29.08 | 26.45 | 25.24 | 22.49 | -- | -- | 28.33 | 25.69 |
| U.S. Total | 12.63 | 12.61 | 10.49 | 10.39 | 6.73 | 6.64 | 9.51 | 9.44 | 10.38 | 10.23 |

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 preliminary estimates based on a cutoff model sample.
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-861M (formerly EIA-826), Monthly Electric Power Industry Report.

## Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - April 2018

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| Annual Totals | | | | | |
| 2008 | 125,037,870 | 17,582,277 | 774,817 | 726 | 143,395,691 |
| 2009 | 125,208,777 | 17,562,150 | 757,497 | 703 | 143,529,126 |
| 2010 | 125,717,767 | 17,674,167 | 747,691 | 238 | 144,139,862 |
| 2011 | 126,143,072 | 17,637,928 | 727,889 | 92 | 144,508,982 |
| 2012 | 126,832,252 | 17,728,903 | 732,344 | 83 | 145,293,583 |
| 2013 | 127,776,941 | 17,679,466 | 831,734 | 74 | 146,288,214 |
| 2014 | 128,680,294 | 17,853,836 | 839,154 | 79 | 147,373,362 |
| 2015 | 129,811,667 | 17,985,582 | 835,527 | 78 | 148,632,855 |
| 2016 | 131,068,719 | 18,148,290 | 838,099 | 83 | 150,055,191 |
| 2017 | 132,572,042 | 18,323,932 | 821,267 | 85 | 151,717,327 |
| Year 2016 | | | | | |
| January | 130,327,243 | 18,001,806 | 829,287 | 78 | 149,158,414 |
| February | 130,114,828 | 18,022,657 | 825,209 | 81 | 148,962,775 |
| March | 131,333,340 | 18,185,531 | 835,990 | 86 | 150,354,947 |
| April | 130,452,160 | 18,064,005 | 823,879 | 82 | 149,340,126 |
| May | 131,002,108 | 18,133,949 | 840,080 | 85 | 149,976,222 |
| June | 131,282,771 | 18,174,804 | 853,646 | 86 | 150,311,307 |
| July | 131,086,905 | 18,130,289 | 847,849 | 83 | 150,065,126 |
| August | 131,346,501 | 18,227,261 | 859,607 | 83 | 150,433,452 |
| Sept | 131,374,997 | 18,207,555 | 846,336 | 83 | 150,428,971 |
| October | 131,318,899 | 18,203,386 | 838,393 | 84 | 150,360,762 |
| November | 131,325,418 | 18,183,746 | 824,510 | 84 | 150,333,758 |
| December | 131,859,453 | 18,244,491 | 832,403 | 84 | 150,936,431 |
| Year 2017 | | | | | |
| January | 131,863,431 | 18,225,561 | 808,008 | 84 | 150,897,084 |
| February | 131,376,684 | 18,136,945 | 797,401 | 84 | 150,311,114 |
| March | 132,758,623 | 18,322,415 | 816,055 | 84 | 151,897,177 |
| April | 131,802,218 | 18,162,546 | 803,225 | 85 | 150,768,074 |
| May | 133,093,868 | 18,323,788 | 829,718 | 85 | 152,247,459 |
| June | 132,810,755 | 18,339,737 | 837,435 | 85 | 151,988,012 |
| July | 132,296,207 | 18,344,928 | 831,768 | 85 | 151,472,988 |
| August | 132,980,967 | 18,427,812 | 847,850 | 85 | 152,256,714 |
| Sept | 132,427,305 | 18,344,964 | 826,688 | 85 | 151,599,042 |
| October | 133,098,434 | 18,426,160 | 829,169 | 85 | 152,353,848 |
| November | 133,065,798 | 18,420,680 | 813,432 | 85 | 152,299,995 |
| December | 133,290,218 | 18,411,649 | 814,459 | 85 | 152,516,411 |
| Year 2018 | | | | | |
| January | 133,315,177 | 18,481,157 | 815,775 | 84 | 152,612,193 |
| February | 132,952,662 | 18,367,853 | 771,598 | 84 | 152,092,197 |
| March | 133,917,871 | 18,505,704 | 782,504 | 84 | 153,206,163 |
| April | 133,468,618 | 18,458,677 | 782,651 | 84 | 152,710,030 |
| Rolling 12 Months Ending in April | | | | | |
| 2017 | 131,533,167 | 18,196,079 | 830,626 | 84 | 150,559,957 |
| 2018 | 133,059,823 | 18,404,426 | 815,254 | 85 | 152,279,588 |

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 for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. 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. 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 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.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 5.8. Number of Ultimate Customers Served by Sector by State:**
**April 2018 and 2017**

| Census Division and State | Residential | | Commercial | | Industrial | | Transportation | | All Sectors | |
|---|---|---|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 6,365,514 | 6,337,488 | 895,016 | 886,069 | 20,156 | 26,885 | 6 | 6 | 7,280,692 | 7,250,448 |
| Connecticut | 1,503,878 | 1,495,988 | 153,987 | 153,132 | 4,281 | 4,435 | 3 | 3 | 1,662,149 | 1,653,558 |
| Maine | 709,308 | 709,871 | 99,105 | 98,515 | 3,066 | 3,083 | 0 | 0 | 811,479 | 811,469 |
| Massachusetts | 2,770,176 | 2,770,302 | 416,741 | 411,798 | 7,713 | 14,104 | 2 | 2 | 3,194,632 | 3,196,206 |
| New Hampshire | 620,811 | 616,371 | 107,710 | 107,226 | 3,167 | 3,247 | 0 | 0 | 731,688 | 726,844 |
| Rhode Island | 446,894 | 432,063 | 60,597 | 59,475 | 1,793 | 1,791 | 1 | 1 | 509,285 | 493,330 |
| Vermont | 314,447 | 312,893 | 56,876 | 55,923 | 136 | 225 | 0 | 0 | 371,459 | 369,041 |
| Middle Atlantic | 16,170,020 | 16,012,366 | 2,342,570 | 2,297,108 | 29,956 | 42,346 | 20 | 20 | 18,542,566 | 18,351,840 |
| New Jersey | 3,588,215 | 3,517,225 | 523,094 | 515,181 | 11,920 | 11,769 | 6 | 6 | 4,123,235 | 4,044,181 |
| New York | 7,183,240 | 7,138,965 | 1,105,806 | 1,084,835 | 6,713 | 7,611 | 8 | 8 | 8,295,767 | 8,231,419 |
| Pennsylvania | 5,398,565 | 5,356,176 | 713,670 | 697,092 | 11,323 | 22,966 | 6 | 6 | 6,123,564 | 6,076,240 |
| East North Central | 20,241,266 | 20,107,479 | 2,499,148 | 2,486,163 | 46,783 | 53,049 | 9 | 9 | 22,787,206 | 22,646,700 |
| Illinois | 5,306,346 | 5,278,883 | 614,815 | 611,253 | 3,996 | 5,736 | 3 | 3 | 5,925,160 | 5,895,875 |
| Indiana | 2,854,608 | 2,828,153 | 352,611 | 349,112 | 15,208 | 17,688 | 1 | 1 | 3,222,428 | 3,194,954 |
| Michigan | 4,375,604 | 4,352,950 | 546,492 | 548,175 | NM | NM | 2 | 2 | 4,927,750 | 4,906,884 |
| Ohio | 4,985,326 | 4,953,978 | 628,423 | 623,449 | 17,031 | 19,099 | 2 | 2 | 5,630,782 | 5,596,528 |
| Wisconsin | 2,719,382 | 2,693,515 | 356,807 | 354,174 | NM | NM | 1 | 1 | 3,081,086 | 3,052,459 |
| West North Central | 9,538,757 | 9,439,744 | 1,461,112 | 1,445,775 | 113,754 | 113,808 | 3 | 3 | 11,113,626 | 10,999,330 |
| Iowa | 1,395,296 | 1,379,689 | 244,425 | 242,279 | NM | NM | 0 | 0 | 1,646,640 | 1,628,810 |
| Kansas | 1,278,895 | 1,268,546 | 235,636 | 231,677 | 25,208 | 25,549 | 0 | 0 | 1,539,739 | 1,525,772 |
| Minnesota | 2,407,962 | 2,381,360 | 290,009 | 287,281 | NM | NM | 1 | 1 | 2,706,220 | 2,676,752 |
| Missouri | 2,811,172 | 2,786,417 | 381,770 | 379,228 | 6,771 | 8,488 | 2 | 2 | 3,199,715 | 3,174,135 |
| Nebraska | 861,998 | 849,716 | 162,440 | 159,858 | 55,497 | 53,888 | 0 | 0 | 1,079,935 | 1,063,462 |
| North Dakota | 379,829 | 377,031 | 73,514 | 72,991 | 8,052 | 7,897 | 0 | 0 | 461,395 | 457,919 |
| South Dakota | 403,605 | 396,985 | 73,318 | 72,461 | NM | NM | 0 | 0 | 479,982 | 472,480 |
| South Atlantic | 27,892,779 | 27,527,306 | 3,797,348 | 3,724,184 | 78,193 | 79,769 | 13 | 13 | 31,768,333 | 31,331,272 |
| Delaware | 428,139 | 422,457 | 54,597 | 53,565 | 597 | 1,196 | 0 | 0 | 483,333 | 477,218 |
| District of Columbia | 273,286 | 266,106 | 26,251 | 26,061 | 1 | 1 | 3 | 3 | 299,541 | 292,171 |
| Florida | 9,351,563 | 9,224,244 | 1,234,527 | 1,214,405 | 20,252 | 20,746 | 2 | 2 | 10,606,344 | 10,459,397 |
| Georgia | 4,375,712 | 4,312,765 | 584,284 | 572,126 | 19,360 | 19,441 | 1 | 1 | 4,979,357 | 4,904,333 |
| Maryland | 2,331,309 | 2,310,846 | 253,158 | 251,446 | 8,737 | 8,834 | 5 | 5 | 2,593,209 | 2,571,131 |
| North Carolina | 4,551,325 | 4,482,078 | 702,858 | 681,051 | 9,805 | 9,929 | 1 | 1 | 5,263,989 | 5,173,059 |
| South Carolina | 2,287,945 | 2,250,261 | 366,950 | 354,630 | 4,233 | 4,268 | 0 | 0 | 2,659,128 | 2,609,159 |
| Virginia | 3,432,560 | 3,399,372 | 430,339 | 427,354 | 3,739 | 3,773 | 1 | 1 | 3,866,639 | 3,830,500 |
| West Virginia | 860,940 | 859,177 | 144,384 | 143,546 | 11,469 | 11,581 | 0 | 0 | 1,016,793 | 1,014,304 |
| East South Central | 8,456,812 | 8,366,111 | 1,402,040 | 1,378,704 | 22,811 | 24,896 | 0 | 0 | 9,881,663 | 9,769,711 |
| Alabama | 2,254,391 | 2,230,027 | 370,718 | 364,353 | 8,210 | 8,170 | 0 | 0 | 2,633,319 | 2,602,550 |
| Kentucky | 1,995,280 | 1,981,194 | 302,619 | 299,126 | 6,119 | 7,733 | 0 | 0 | 2,304,018 | 2,288,053 |
| Mississippi | 1,315,087 | 1,304,119 | 239,657 | 235,053 | 7,635 | 7,574 | 0 | 0 | 1,562,379 | 1,546,746 |
| Tennessee | 2,892,054 | 2,850,771 | 489,046 | 480,172 | 847 | 1,419 | 0 | 0 | 3,381,947 | 3,332,362 |
| West South Central | 16,102,555 | 15,715,244 | 2,264,745 | 2,208,516 | 184,719 | 181,887 | 6 | 6 | 18,552,025 | 18,105,653 |
| Arkansas | 1,392,605 | 1,379,809 | 192,054 | 189,542 | 28,735 | 29,124 | 2 | 2 | 1,613,396 | 1,598,477 |
| Louisiana | 2,095,711 | 2,080,932 | 292,970 | 289,220 | 18,492 | 18,566 | 1 | 1 | 2,407,174 | 2,388,719 |
| Oklahoma | 1,783,042 | 1,763,881 | 285,128 | 280,328 | 17,848 | 17,989 | 0 | 0 | 2,086,018 | 2,062,198 |
| Texas | 10,831,197 | 10,490,622 | 1,494,593 | 1,449,426 | 119,644 | 116,208 | 3 | 3 | 12,445,437 | 12,056,259 |
| Mountain | 9,776,244 | 9,617,707 | 1,391,167 | 1,376,821 | 87,427 | 87,217 | 5 | 5 | 11,254,843 | 11,081,750 |
| Arizona | 2,786,425 | 2,743,530 | 320,938 | 318,413 | 6,602 | 6,970 | 2 | 2 | 3,113,967 | 3,068,915 |
| Colorado | 2,318,119 | 2,280,613 | 363,571 | 360,074 | 14,641 | 14,614 | 1 | 1 | 2,696,332 | 2,655,302 |
| Idaho | 738,534 | 722,653 | 110,010 | 108,162 | 28,602 | 28,239 | 0 | 0 | 877,146 | 859,054 |
| Montana | 510,798 | 503,879 | 110,156 | 108,452 | NM | NM | 0 | 0 | 627,191 | 618,456 |
| Nevada | 1,176,241 | 1,156,173 | 164,025 | 162,550 | NM | NM | 1 | 1 | 1,343,708 | 1,322,143 |
| New Mexico | 901,892 | 892,289 | 139,414 | 138,538 | 8,554 | 8,642 | 0 | 0 | 1,049,860 | 1,039,469 |
| Utah | 1,070,264 | 1,046,786 | 124,539 | 122,233 | 9,558 | 9,488 | 1 | 1 | 1,204,362 | 1,178,508 |
| Wyoming | 273,971 | 271,784 | 58,514 | 58,399 | 9,792 | 9,720 | 0 | 0 | 342,277 | 339,903 |
| Pacific Contiguous | 18,199,811 | 17,960,906 | 2,292,001 | 2,244,726 | 196,661 | 191,225 | 22 | 23 | 20,688,495 | 20,396,880 |
| California | 13,397,016 | 13,223,400 | 1,659,205 | 1,620,322 | 144,010 | 139,381 | 14 | 15 | 15,200,245 | 14,983,118 |
| Oregon | 1,755,285 | 1,732,893 | 240,495 | 237,678 | 23,951 | 23,531 | 2 | 2 | 2,019,733 | 1,994,104 |
| Washington | 3,047,510 | 3,004,613 | 392,301 | 386,726 | 28,700 | 28,313 | 6 | 6 | 3,468,517 | 3,419,658 |
| Pacific Noncontiguous | 724,860 | 717,867 | 113,530 | 114,480 | NM | NM | 0 | 0 | 840,581 | 834,490 |
| Alaska | 288,658 | 285,735 | 53,704 | 53,143 | NM | NM | 0 | 0 | 343,765 | 340,242 |
| Hawaii | 436,202 | 432,132 | 59,826 | 61,337 | 788 | 779 | 0 | 0 | 496,816 | 494,248 |
| U.S. Total | 133,468,618 | 131,802,218 | 18,458,677 | 18,162,546 | 782,651 | 803,225 | 84 | 85 | 152,710,030 | 150,768,074 |

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 preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
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-861M (formerly EIA-826), Monthly Electric Power Industry Report.

**Table 6.1. Electric Generating Summer Capacity Changes (MW), March 2018 to April 2018**

| | | As of End of March 2018 | Activity During April 2018 as Reported to EIA | | As of End of April 2018 | Net Change in Capacity - Current Month and Prior Periods | | | Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Planned Capacity Additions | | Planned Capacity Reductions | | Planned Net Change | | Planned Total Net Summer | |
| Technology | Capacity Source | Total In-Service Capacity | Actual Capacity Additions | Actual Capacity Reductions | Total In-Service Capacity | Current Month | Year to Date | Past 12 Months | Next Month | Next 12 Months | Next Month | Next 12 Months | Next Month | Next 12 Months | At End of Next Month | At End of Next 12 Months |
| ..... *Onshore Wind (Summer Capacity)* | *Utility Scale Facilities* | *88,580.1* | *14.4* | *0.6* | *88,593.9* | *13.8* | *1,079.6* | *5,480.6* | *167.5* | *6,569.4* | *3.0* | *28.0* | *164.5* | *6,541.4* | *88,758.4* | *95,135.3* |
| ..... *Offshore Wind (Summer Capacity)* | *Utility Scale Facilities* | *29.3* | *0.0* | *0.0* | *29.3* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *29.3* | *29.3* |
| ..... Wind (Summer Capacity) | Utility Scale Facilities | 88,609.4 | 14.4 | 0.6 | 88,623.2 | 13.8 | 1,079.6 | 5,480.6 | 167.5 | 6,569.4 | 3.0 | 28.0 | 164.5 | 6,541.4 | 88,787.7 | 95,164.6 |
| ..... *Solar Photovoltaic* | *Utility Scale Facilities* | *26,390.2* | *342.4* | *6.0* | *26,726.6* | *336.4* | *1,819.8* | *5,195.9* | *307.4* | *4,516.1* | *0.0* | *1.2* | *307.4* | *4,514.9* | *27,034.0* | *31,241.5* |
| ..... *Solar Thermal without Energy Storage* | *Utility Scale Facilities* | *1,352.5* | *0.0* | *0.0* | *1,352.5* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *1,352.5* | *1,352.5* |
| ..... *Solar Thermal with Energy Storage* | *Utility Scale Facilities* | *405.4* | *0.0* | *0.0* | *405.4* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *405.4* | *405.4* |
| ..... Solar Subtotal | Utility Scale Facilities | 28,148.1 | 342.4 | 6.0 | 28,484.5 | 336.4 | 1,819.8 | 5,195.9 | 307.4 | 4,516.1 | 0.0 | 1.2 | 307.4 | 4,514.9 | 28,791.9 | 32,999.4 |
| ..... Conventional Hydroelectric | Utility Scale Facilities | 79,954.5 | 8.0 | 1.3 | 79,961.2 | 6.7 | -96.6 | 43.4 | 0.0 | 250.3 | 39.0 | 45.1 | -39.0 | 205.2 | 79,922.2 | 80,166.4 |
| ..... *Wood/Wood Waste Biomass* | *Utility Scale Facilities* | *8,884.0* | *6.2* | *25.9* | *8,864.3* | *-19.7* | *-198.1* | *-136.3* | *0.0* | *167.9* | *0.0* | *24.8* | *0.0* | *143.1* | *8,864.3* | *9,007.4* |
| ..... *Landfill Gas* | *Utility Scale Facilities* | *2,106.7* | *0.0* | *10.2* | *2,096.5* | *-10.2* | *-11.6* | *-6.5* | *0.0* | *4.2* | *2.0* | *5.7* | *-2.0* | *-1.5* | *2,094.5* | *2,095.0* |
| ..... *Municipal Solid Waste* | *Utility Scale Facilities* | *2,245.0* | *0.0* | *0.0* | *2,245.0* | *0.0* | *-1.8* | *-3.4* | *0.0* | *0.0* | *0.0* | *10.0* | *0.0* | *-10.0* | *2,245.0* | *2,235.0* |
| ..... *Other Waste Biomass* | *Utility Scale Facilities* | *778.2* | *0.0* | *1.1* | *777.1* | *-1.1* | *-1.1* | *5.1* | *50.4* | *84.4* | *0.0* | *0.4* | *50.4* | *84.0* | *827.5* | *861.1* |
| ..... Biomass Sources Subtotal | Utility Scale Facilities | 14,013.9 | 6.2 | 37.2 | 13,982.9 | -31.0 | -212.6 | -141.1 | 50.4 | 256.5 | 2.0 | 40.9 | 48.4 | 215.6 | 14,031.3 | 14,198.5 |
| ..... Geothermal | Utility Scale Facilities | 2,485.6 | 0.0 | 0.0 | 2,485.6 | 0.0 | -7.0 | 30.0 | 0.0 | 39.9 | 0.0 | 0.0 | 0.0 | 39.9 | 2,485.6 | 2,525.5 |
| ***... Renewable Sources Subtotal*** | ***Utility Scale Facilities*** | ***213,211.5*** | ***371.0*** | ***45.1*** | ***213,537.4*** | ***325.9*** | ***2,583.2*** | ***10,608.8*** | ***525.3*** | ***11,632.2*** | ***44.0*** | ***115.2*** | ***481.3*** | ***11,517.0*** | ***214,018.7*** | ***225,054.4*** |
| ..... *Natural Gas Fired Combined Cycle* | *Utility Scale Facilities* | *246,979.0* | *4,384.0* | *52.2* | *251,310.8* | *4,331.8* | *4,934.9* | *9,356.8* | *3,689.1* | *13,542.0* | *0.0* | *213.0* | *3,689.1* | *13,329.0* | *254,999.9* | *264,639.8* |
| ..... *Natural Gas Fired Combustion Turbine* | *Utility Scale Facilities* | *126,855.3* | *383.1* | *30.5* | *127,207.9* | *352.6* | *3.2* | *650.9* | *227.0* | *2,018.9* | *51.0* | *431.4* | *176.0* | *1,587.5* | *127,383.9* | *128,795.4* |
| ..... *Natural Gas Steam Turbine* | *Utility Scale Facilities* | *76,531.5* | *490.5* | *260.5* | *76,761.5* | *230.0* | *2,051.0* | *888.8* | *0.0* | *1.0* | *1,090.6* | *2,868.8* | *-1,090.6* | *-2,867.8* | *75,670.9* | *73,893.7* |
| ..... *Natural Gas Internal Combustion Engine* | *Utility Scale Facilities* | *4,377.8* | *0.0* | *0.4* | *4,377.4* | *-0.4* | *92.5* | *145.3* | *9.3* | *362.2* | *0.0* | *4.8* | *9.3* | *357.4* | *4,386.7* | *4,734.8* |
| ..... *Natural Gas with Compressed Air Storage* | *Utility Scale Facilities* | *110.0* | *0.0* | *0.0* | *110.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *110.0* | *110.0* |
| ..... *Other Natural Gas* | *Utility Scale Facilities* | *121.8* | *0.3* | *0.0* | *122.1* | *0.3* | *0.3* | *0.3* | *0.0* | *34.3* | *0.0* | *0.0* | *0.0* | *34.3* | *122.1* | *156.4* |
| ..... Natural Gas Subtotal | Utility Scale Facilities | 454,975.4 | 5,257.9 | 343.6 | 459,889.7 | 4,914.3 | 7,081.9 | 11,042.1 | 3,925.4 | 15,958.4 | 1,141.6 | 3,518.0 | 2,783.8 | 12,440.4 | 462,673.5 | 472,330.1 |
| ..... *Conventional Steam Coal* | *Utility Scale Facilities* | *251,536.5* | *17.5* | *2,018.9* | *249,535.1* | *-2,001.4* | *-9,915.1* | *-14,409.9* | *0.0* | *17.0* | *644.0* | *6,922.5* | *-644.0* | *-6,905.5* | *248,891.1* | *242,629.6* |
| ..... *Coal Integrated Gasification Combined Cycle* | *Utility Scale Facilities* | *815.0* | *0.0* | *0.0* | *815.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *815.0* | *815.0* |
| ..... Coal Subtotal | Utility Scale Facilities | 252,351.5 | 17.5 | 2,018.9 | 250,350.1 | -2,001.4 | -9,915.1 | -14,409.9 | 0.0 | 17.0 | 644.0 | 6,922.5 | -644.0 | -6,905.5 | 249,706.1 | 243,444.6 |
| ..... Petroleum Coke | Utility Scale Facilities | 1,468.9 | 0.0 | 0.0 | 1,468.9 | 0.0 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,468.9 | 1,468.9 |
| ..... Petroleum Liquids | Utility Scale Facilities | 32,182.5 | 13.4 | 455.3 | 31,740.6 | -441.9 | -482.6 | -1,220.4 | 8.0 | 28.1 | 0.0 | 236.3 | 8.0 | -208.2 | 31,748.6 | 31,532.4 |
| ..... Other Gases | Utility Scale Facilities | 2,448.8 | 5.0 | 78.0 | 2,375.8 | -73.0 | -81.1 | -81.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,375.8 | 2,375.8 |
| ***... Fossil Fuels Subtotal*** | ***Utility Scale Facilities*** | ***743,427.1*** | ***5,293.8*** | ***2,895.8*** | ***745,825.1*** | ***2,398.0*** | ***-3,394.7*** | ***-4,667.1*** | ***3,933.4*** | ***16,003.5*** | ***1,785.6*** | ***10,676.8*** | ***2,147.8*** | ***5,326.7*** | ***747,972.9*** | ***751,151.8*** |
| ..... Hydroelectric Pumped Storage | Utility Scale Facilities | 22,809.7 | 0.0 | 0.0 | 22,809.7 | 0.0 | 1.0 | 58.0 | 57.0 | 57.0 | 0.0 | 0.0 | 57.0 | 57.0 | 22,866.7 | 22,866.7 |
| ..... Flywheels | Utility Scale Facilities | 42.0 | 5.0 | 0.0 | 47.0 | 5.0 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.0 | 47.0 |
| ..... Batteries | Utility Scale Facilities | 686.0 | 10.0 | 0.0 | 696.0 | 10.0 | -9.2 | 52.9 | 5.5 | 118.3 | 0.0 | 0.0 | 5.5 | 118.3 | 701.5 | 814.3 |
| ***... Energy Storage Subtotal*** | ***Utility Scale Facilities*** | ***23,537.7*** | ***15.0*** | ***0.0*** | ***23,552.7*** | ***15.0*** | ***-3.2*** | ***115.9*** | ***62.5*** | ***175.3*** | ***0.0*** | ***0.0*** | ***62.5*** | ***175.3*** | ***23,615.2*** | ***23,728.0*** |
| ***... Nuclear*** | ***Utility Scale Facilities*** | ***99,641.5*** | ***1.8*** | ***1.2*** | ***99,642.1*** | ***0.6*** | ***7.5*** | ***26.5*** | ***18.0*** | ***18.0*** | ***0.0*** | ***607.7*** | ***18.0*** | ***-589.7*** | ***99,660.1*** | ***99,052.4*** |
| ***... All Other*** | ***Utility Scale Facilities*** | ***1,691.2*** | ***84.0*** | ***0.0*** | ***1,775.2*** | ***84.0*** | ***356.3*** | ***356.3*** | ***0.0*** | ***48.8*** | ***0.0*** | ***0.0*** | ***0.0*** | ***48.8*** | ***1,775.2*** | ***1,824.0*** |
| **TOTAL** | **UTILITY SCALE FACILITIES** | **1,081,509.0** | **5,765.6** | **2,942.1** | **1,084,332.5** | **2,823.5** | **-450.9** | **6,440.4** | **4,539.2** | **27,877.8** | **1,829.6** | **11,399.7** | **2,709.6** | **16,478.1** | **1,087,042.1** | **1,100,810.6** |
| | | | | | | | | | | | | | | | | |
| ..... *Estimated Small Scale Solar Photovoltaic* | *Small Scale Facilities* | *16,971.7* | | | *17,228.3* | *256.7* | *1,004.2* | *3,256.9* | | | | | | | | |
| ..... Estimated Total Solar Photovoltaic | All Facilities | 43,361.9 | | | 43,954.9 | 593.1 | 2,824.0 | 8,452.8 | | | | | | | | |
| ***... Estimated Total Solar*** | ***All Facilities*** | ***45,119.8*** | | | ***45,712.8*** | ***593.1*** | ***2,823.9*** | ***8,452.8*** | | | | | | | | |

NOTES:
Planned Capacity Additions reflect plans to begin operating new units and plans to uprate existing units.
Planned Capacity Reductions reflect plans to retire or derate existing units.
Actual Capacity Additions reflect new units, uprates to existing units, corrections to previously reported capacities, and additions not previously reported.
Actual Capacity Reductions reflect retirements of and derates to existing units, corrections to previously reported capacities, and reductions not previously reported.
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.

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.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

## Table 6.1.A. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)
## 2008 - April 2018

| Period | Utility Solar Photovoltaic | Estimated Small Scale Solar Photovoltaic | Estimated Total Solar Photovoltaic |
|---|---|---|---|
| Annual Totals | | | |
| 2008 | 70.8 | N/A | N/A |
| 2009 | 145.5 | N/A | N/A |
| 2010 | 393.4 | N/A | N/A |
| 2011 | 1,052.0 | N/A | N/A |
| 2012 | 2,694.1 | N/A | N/A |
| 2013 | 5,336.1 | N/A | N/A |
| 2014 | 8,656.6 | 7,326.6 | 15,983.2 |
| 2015 | 11,905.4 | 9,778.5 | 21,683.9 |
| 2016 | 20,192.9 | 12,765.1 | 32,958.0 |
| 2017 | 24,906.8 | 16,224.2 | 41,131.0 |
| Year 2016 | | | |
| January | 12,470.5 | 9,865.6 | 22,336.1 |
| February | 12,615.2 | 10,123.1 | 22,738.3 |
| March | 12,822.0 | 10,440.2 | 23,262.2 |
| April | 13,298.0 | 10,687.8 | 23,985.8 |
| May | 13,419.8 | 10,927.9 | 24,347.7 |
| June | 13,635.3 | 11,185.2 | 24,820.5 |
| July | 14,360.4 | 11,385.3 | 25,745.7 |
| August | 15,297.1 | 11,670.6 | 26,967.7 |
| Sept | 16,064.3 | 11,913.3 | 27,977.6 |
| October | 16,477.2 | 12,156.4 | 28,633.6 |
| November | 17,192.0 | 12,446.4 | 29,638.4 |
| December | 20,192.9 | 12,765.1 | 32,958.0 |
| Year 2017 | | | |
| January | 20,487.3 | 13,028.2 | 33,515.5 |
| February | 20,674.8 | 13,332.8 | 34,007.6 |
| March | 21,013.3 | 13,722.5 | 34,735.8 |
| April | 21,530.7 | 13,971.4 | 35,502.1 |
| May | 21,927.8 | 14,259.4 | 36,187.2 |
| June | 22,151.3 | 14,543.5 | 36,694.8 |
| July | 22,264.5 | 14,810.2 | 37,074.7 |
| August | 22,443.8 | 15,104.9 | 37,548.7 |
| Sept | 22,653.0 | 15,340.6 | 37,993.6 |
| October | 23,001.1 | 15,582.9 | 38,584.0 |
| November | 23,538.3 | 15,868.6 | 39,406.9 |
| December | 24,906.8 | 16,224.2 | 41,131.0 |
| Year 2018 | | | |
| January | 25,689.0 | 16,655.5 | 42,344.5 |
| February | 25,809.8 | 16,893.0 | 42,702.8 |
| March | 26,390.2 | 16,971.7 | 43,361.9 |
| April | 26,726.6 | 17,228.3 | 43,954.9 |

Values are preliminary.
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.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

## Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
## 2014 - April 2018

| Period | Residential | Commercial | Industrial | Total |
|---|---|---|---|---|
| Annual Totals | | | | |
| 2014 | 3,346.3 | 3,279.7 | 700.6 | 7,326.6 |
| 2015 | 5,191.5 | 3,706.7 | 880.3 | 9,778.5 |
| 2016 | 7,527.0 | 4,022.8 | 1,215.3 | 12,765.1 |
| 2017 | 9,574.0 | 5,146.5 | 1,503.7 | 16,224.2 |
| Year 2016 | | | | |
| January | 5,428.5 | 3,419.8 | 1,017.3 | 9,865.6 |
| February | 5,627.1 | 3,458.3 | 1,037.7 | 10,123.1 |
| March | 5,852.7 | 3,521.8 | 1,065.8 | 10,440.2 |
| April | 6,051.1 | 3,552.6 | 1,084.1 | 10,687.8 |
| May | 6,238.7 | 3,589.1 | 1,100.0 | 10,927.9 |
| June | 6,432.3 | 3,640.4 | 1,112.5 | 11,185.2 |
| July | 6,592.9 | 3,660.7 | 1,131.7 | 11,385.3 |
| August | 6,785.8 | 3,734.2 | 1,150.5 | 11,670.6 |
| Sept | 6,957.7 | 3,794.2 | 1,161.5 | 11,913.3 |
| October | 7,147.1 | 3,837.6 | 1,171.8 | 12,156.4 |
| November | 7,332.8 | 3,930.7 | 1,182.9 | 12,446.4 |
| December | 7,527.0 | 4,022.8 | 1,215.3 | 12,765.1 |
| Year 2017 | | | | |
| January | 7,708.1 | 4,105.9 | 1,214.2 | 13,028.2 |
| February | 7,895.4 | 4,151.7 | 1,285.7 | 13,332.8 |
| March | 8,124.1 | 4,286.3 | 1,312.1 | 13,722.5 |
| April | 8,275.0 | 4,372.5 | 1,324.0 | 13,971.4 |
| May | 8,456.1 | 4,456.1 | 1,347.2 | 14,259.4 |
| June | 8,618.5 | 4,555.2 | 1,369.8 | 14,543.5 |
| July | 8,776.9 | 4,637.7 | 1,395.5 | 14,810.2 |
| August | 8,956.2 | 4,734.4 | 1,414.3 | 15,104.9 |
| Sept | 9,105.0 | 4,797.4 | 1,438.2 | 15,340.6 |
| October | 9,254.3 | 4,884.2 | 1,444.4 | 15,582.9 |
| November | 9,416.4 | 4,978.0 | 1,474.3 | 15,868.6 |
| December | 9,574.0 | 5,146.5 | 1,503.7 | 16,224.2 |
| Year 2018 | | | | |
| January | 9,787.4 | 5,349.7 | 1,518.4 | 16,655.5 |
| February | 9,996.0 | 5,378.3 | 1,518.8 | 16,893.0 |
| March | 10,169.7 | 5,289.9 | 1,512.1 | 16,971.7 |
| April | 10,320.8 | 5,370.4 | 1,537.1 | 17,228.3 |

Values are preliminary.
Final data for 2016 monthly has changed based on new data elements collected from EIA-861 Schedule 7B. Data is now collected by sector, previously it was allocated to the commercial sector.
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.
In March 2018, the net decrease in sector capacity is due to the correction of incorrectly reported virtual net metering and net metering capacity

**Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, April 2018 and 2017 (Megawatts)**

| Census Division and State | Renewable Sources | | Fossil Fuels | | Hydroelectric Pumped Storage | | Other Energy Storage | | Nuclear | | All Other Sources | | All Sources | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 5,701.6 | 5,546.4 | 21,227.7 | 22,735.7 | 1,797.4 | 1,797.4 | 24.7 | 21.0 | 4,014.1 | 4,014.1 | 320.9 | 52.9 | 33,086.4 | 34,167.5 |
| Connecticut | 384.2 | 353.5 | 6,138.3 | 6,308.7 | 29.4 | 29.4 | 1.6 | 0.8 | 2,087.8 | 2,087.8 | 298.9 | 30.9 | 8,940.2 | 8,811.1 |
| Maine | 2,345.6 | 2,418.2 | 2,538.5 | 2,442.5 | 0.0 | 0.0 | 16.2 | 16.2 | 0.0 | 0.0 | 22.0 | 22.0 | 4,922.3 | 4,898.9 |
| Massachusetts | 1,299.7 | 1,154.6 | 8,378.3 | 9,805.0 | 1,768.0 | 1,768.0 | 4.9 | 2.0 | 677.2 | 677.2 | 0.0 | 0.0 | 12,128.1 | 13,406.8 |
| New Hampshire | 928.9 | 928.9 | 2,262.9 | 2,266.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,249.1 | 1,249.1 | 0.0 | 0.0 | 4,440.9 | 4,444.0 |
| Rhode Island | 113.3 | 101.6 | 1,811.8 | 1,815.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,925.1 | 1,917.2 |
| Vermont | 629.9 | 589.6 | 97.9 | 97.9 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 729.8 | 689.5 |
| Middle Atlantic | 11,014.6 | 10,926.6 | 68,896.4 | 69,468.0 | 3,409.1 | 3,409.1 | 72.4 | 71.4 | 19,307.3 | 19,294.5 | 15.7 | 11.2 | 102,715.5 | 103,180.8 |
| New Jersey | 901.1 | 864.3 | 12,387.2 | 13,530.8 | 420.0 | 420.0 | 1.0 | 1.0 | 4,107.9 | 4,107.9 | 15.7 | 11.2 | 17,832.9 | 18,935.2 |
| New York | 7,236.9 | 7,179.8 | 26,236.9 | 26,166.2 | 1,406.1 | 1,406.1 | 21.0 | 20.0 | 5,402.4 | 5,389.6 | 0.0 | 0.0 | 40,303.3 | 40,161.7 |
| Pennsylvania | 2,876.6 | 2,882.5 | 30,272.3 | 29,771.0 | 1,583.0 | 1,583.0 | 50.4 | 50.4 | 9,797.0 | 9,797.0 | 0.0 | 0.0 | 44,579.3 | 44,083.9 |
| East North Central | 11,690.1 | 10,760.7 | 114,421.1 | 113,235.5 | 2,134.0 | 2,076.0 | 167.4 | 187.4 | 19,024.4 | 19,033.7 | 188.1 | 110.1 | 147,625.1 | 145,403.4 |
| Illinois | 4,447.9 | 4,172.4 | 28,934.1 | 28,987.8 | 0.0 | 0.0 | 112.4 | 112.4 | 11,577.4 | 11,587.3 | 78.0 | 0.0 | 45,149.8 | 44,859.9 |
| Indiana | 2,446.8 | 2,206.2 | 24,456.4 | 23,171.0 | 0.0 | 0.0 | 22.0 | 22.0 | 0.0 | 0.0 | 89.0 | 89.0 | 27,014.2 | 25,488.2 |
| Michigan | 2,636.1 | 2,419.8 | 20,790.5 | 20,616.7 | 2,134.0 | 2,076.0 | 0.0 | 0.0 | 4,119.8 | 4,119.8 | 0.0 | 0.0 | 29,680.4 | 29,232.3 |
| Ohio | 930.3 | 843.2 | 26,905.3 | 25,939.5 | 0.0 | 0.0 | 33.0 | 53.0 | 2,134.0 | 2,134.0 | 0.0 | 0.0 | 30,002.6 | 28,969.7 |
| Wisconsin | 1,229.0 | 1,119.1 | 13,334.8 | 14,520.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1,193.2 | 1,192.6 | 21.1 | 21.1 | 15,778.1 | 16,853.3 |
| West North Central | 26,791.9 | 25,275.3 | 60,850.6 | 61,100.3 | 657.0 | 657.0 | 3.2 | 2.0 | 5,444.9 | 5,444.9 | 24.5 | 24.5 | 93,772.1 | 92,504.0 |
| Iowa | 7,315.8 | 6,967.8 | 9,918.4 | 10,185.3 | 0.0 | 0.0 | 0.0 | 0.0 | 601.4 | 601.4 | 0.0 | 0.0 | 17,835.6 | 17,754.5 |
| Kansas | 5,138.0 | 4,956.8 | 9,775.8 | 9,795.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1,225.0 | 1,225.0 | 0.8 | 0.8 | 16,139.6 | 15,978.0 |
| Minnesota | 5,024.3 | 4,446.4 | 10,301.0 | 10,089.3 | 0.0 | 0.0 | 1.0 | 1.0 | 1,657.0 | 1,657.0 | 18.4 | 18.4 | 17,001.7 | 16,212.1 |
| Missouri | 1,563.4 | 1,245.2 | 18,386.9 | 18,578.4 | 657.0 | 657.0 | 2.2 | 1.0 | 1,190.0 | 1,190.0 | 0.0 | 0.0 | 21,799.5 | 21,671.6 |
| Nebraska | 1,720.8 | 1,629.5 | 6,143.1 | 6,215.5 | 0.0 | 0.0 | 0.0 | 0.0 | 771.5 | 771.5 | 0.0 | 0.0 | 8,635.4 | 8,616.5 |
| North Dakota | 3,592.8 | 3,592.8 | 4,633.6 | 4,544.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 5.3 | 8,231.7 | 8,142.7 |
| South Dakota | 2,436.8 | 2,436.8 | 1,691.8 | 1,691.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4,128.6 | 4,128.6 |
| South Atlantic | 19,112.6 | 16,975.6 | 160,332.8 | 159,879.1 | 7,905.2 | 7,905.2 | 80.5 | 80.5 | 24,602.6 | 24,598.6 | 452.7 | 446.7 | 212,486.4 | 209,885.7 |
| Delaware | 46.1 | 46.4 | 3,331.4 | 3,364.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3,377.5 | 3,410.4 |
| District of Columbia | 12.0 | 12.0 | 9.0 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.0 | 21.0 |
| Florida | 2,460.9 | 1,690.2 | 51,936.6 | 53,325.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3,572.0 | 3,572.0 | 348.7 | 348.7 | 58,318.2 | 58,936.2 |
| Georgia | 3,960.0 | 3,908.7 | 26,973.7 | 26,938.4 | 1,862.2 | 1,862.2 | 1.0 | 1.0 | 4,061.0 | 4,061.0 | 44.0 | 44.0 | 36,901.9 | 36,815.3 |
| Maryland | 1,147.1 | 1,085.9 | 11,473.3 | 10,287.3 | 0.0 | 0.0 | 13.0 | 13.0 | 1,707.8 | 1,707.8 | 6.0 | 0.0 | 14,347.2 | 13,094.0 |
| North Carolina | 6,165.4 | 5,422.9 | 21,644.3 | 21,604.9 | 86.0 | 86.0 | 1.0 | 1.0 | 5,117.6 | 5,113.6 | 54.0 | 54.0 | 33,068.3 | 32,282.4 |
| South Carolina | 2,157.6 | 1,911.7 | 12,188.2 | 11,472.3 | 2,716.0 | 2,716.0 | 0.0 | 0.0 | 6,576.2 | 6,576.2 | 0.0 | 0.0 | 23,638.0 | 22,676.2 |
| Virginia | 2,127.7 | 1,862.0 | 19,013.0 | 18,714.6 | 3,241.0 | 3,241.0 | 0.0 | 0.0 | 3,568.0 | 3,568.0 | 0.0 | 0.0 | 27,949.7 | 27,385.6 |
| West Virginia | 1,035.8 | 1,035.8 | 13,763.3 | 14,163.3 | 0.0 | 0.0 | 65.5 | 65.5 | 0.0 | 0.0 | 0.0 | 0.0 | 14,864.6 | 15,264.6 |
| East South Central | 8,741.1 | 8,420.9 | 65,256.7 | 65,714.5 | 1,616.3 | 1,616.3 | 0.0 | 0.0 | 10,984.1 | 10,984.1 | 1.4 | 1.4 | 86,599.6 | 86,737.2 |
| Alabama | 4,128.3 | 4,078.3 | 20,309.2 | 20,260.8 | 0.0 | 0.0 | 0.0 | 0.0 | 5,060.4 | 5,060.4 | 0.0 | 0.0 | 29,497.9 | 29,399.5 |
| Kentucky | 1,244.3 | 1,150.6 | 18,874.3 | 18,874.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20,118.6 | 20,024.9 |
| Mississippi | 435.3 | 277.8 | 13,882.9 | 14,278.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,401.0 | 1,401.0 | 1.4 | 1.4 | 15,720.6 | 15,958.2 |
| Tennessee | 2,933.2 | 2,914.2 | 12,190.3 | 12,301.4 | 1,616.3 | 1,616.3 | 0.0 | 0.0 | 4,522.7 | 4,522.7 | 0.0 | 0.0 | 21,262.5 | 21,354.6 |
| West South Central | 35,920.5 | 32,714.6 | 139,705.6 | 141,395.7 | 286.0 | 286.0 | 98.3 | 41.0 | 8,910.7 | 8,910.7 | 512.7 | 512.9 | 185,433.8 | 183,860.9 |
| Arkansas | 1,688.3 | 1,610.1 | 11,193.0 | 11,245.2 | 28.0 | 28.0 | 0.0 | 0.0 | 1,817.8 | 1,817.8 | 0.0 | 0.0 | 14,727.1 | 14,701.1 |
| Louisiana | 683.2 | 682.1 | 20,600.7 | 20,697.2 | 0.0 | 0.0 | 0.5 | 0.0 | 2,132.9 | 2,132.9 | 288.7 | 288.9 | 23,706.0 | 23,801.1 |
| Oklahoma | 8,463.1 | 7,597.4 | 18,653.9 | 18,176.7 | 258.0 | 258.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27,375.0 | 26,032.1 |
| Texas | 25,085.9 | 22,825.0 | 89,258.0 | 91,276.6 | 0.0 | 0.0 | 97.8 | 41.0 | 4,960.0 | 4,960.0 | 224.0 | 224.0 | 119,625.7 | 119,326.6 |
| Mountain | 26,152.2 | 25,335.0 | 62,291.3 | 63,386.7 | 778.8 | 778.8 | 33.6 | 42.6 | 3,937.0 | 3,937.0 | 126.3 | 126.3 | 93,319.2 | 93,606.4 |
| Arizona | 5,035.8 | 4,965.5 | 19,407.3 | 19,407.3 | 216.3 | 216.3 | 30.0 | 40.0 | 3,937.0 | 3,937.0 | 0.0 | 0.0 | 28,626.4 | 28,566.1 |
| Colorado | 4,282.6 | 4,160.9 | 11,119.2 | 11,345.2 | 562.5 | 562.5 | 1.0 | 0.0 | 0.0 | 0.0 | 9.3 | 9.3 | 15,974.6 | 16,077.9 |
| Idaho | 4,011.9 | 4,013.3 | 1,127.6 | 1,137.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8 | 14.8 | 5,154.3 | 5,165.8 |
| Montana | 3,471.3 | 3,437.3 | 2,740.4 | 2,740.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.0 | 44.0 | 6,255.7 | 6,221.7 |
| Nevada | 3,570.0 | 3,343.4 | 7,791.6 | 7,791.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 6.5 | 11,368.1 | 11,141.5 |
| New Mexico | 2,398.7 | 2,031.1 | 5,966.8 | 6,828.3 | 0.0 | 0.0 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 8,368.1 | 8,862.0 |
| Utah | 1,587.5 | 1,589.1 | 7,360.2 | 7,348.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40.2 | 40.2 | 8,987.9 | 8,977.5 |
| Wyoming | 1,794.4 | 1,794.4 | 6,778.2 | 6,788.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 | 11.5 | 8,584.1 | 8,593.9 |
| Pacific Contiguous | 67,284.7 | 65,870.4 | 48,623.0 | 49,360.1 | 4,225.9 | 4,225.9 | 175.2 | 165.7 | 3,417.0 | 3,398.0 | 106.3 | 106.3 | 123,832.1 | 123,126.4 |
| California | 30,362.6 | 29,035.0 | 39,545.1 | 40,294.3 | 3,911.9 | 3,911.9 | 162.8 | 155.5 | 2,240.0 | 2,240.0 | 106.3 | 106.3 | 76,328.7 | 75,743.0 |
| Oregon | 12,204.3 | 12,061.2 | 4,318.1 | 4,318.1 | 0.0 | 0.0 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16,527.4 | 16,384.3 |
| Washington | 24,717.8 | 24,774.2 | 4,759.8 | 4,747.7 | 314.0 | 314.0 | 7.4 | 5.2 | 1,177.0 | 1,158.0 | 0.0 | 0.0 | 30,976.0 | 30,999.1 |
| Pacific Noncontiguous | 1,128.1 | 1,103.1 | 4,219.9 | 4,216.6 | 0.0 | 0.0 | 87.7 | 73.5 | 0.0 | 0.0 | 26.6 | 26.6 | 5,462.3 | 5,419.8 |
| Alaska | 538.0 | 538.0 | 2,161.6 | 2,159.4 | 0.0 | 0.0 | 46.2 | 45.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,745.8 | 2,742.4 |
| Hawaii | 590.1 | 565.1 | 2,058.3 | 2,057.2 | 0.0 | 0.0 | 41.5 | 28.5 | 0.0 | 0.0 | 26.6 | 26.6 | 2,716.5 | 2,677.4 |
| U.S. Total | 213,537.4 | 202,928.6 | 745,825.1 | 750,492.2 | 22,809.7 | 22,751.7 | 743.0 | 685.1 | 99,642.1 | 99,615.6 | 1,775.2 | 1,418.9 | 1,084,332.5 | 1,077,892.1 |

NM = Not meaningful due to large relative standard error.
Values are preliminary.

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 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, April 2018 and 2017 (Megawatts)**

| | Summer Capacity at Utility Scale Facilities | | | | | | | | | | | | | | Small Scale Capacity | | Capacity From Utility and Small Scale Facilities | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Census Division and State | Wind | | Solar Photovoltaic | | Solar Thermal | | Conventional Hydroelectric | | Biomass Sources | | Geothermal | | Total Renewable Sources | | Estimated Solar Photovoltaic | | Estimated Total Solar Photovoltaic | | Estimated Total Solar | |
| | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 1,402.1 | 1,349.5 | 808.6 | 618.0 | 0.0 | 0.0 | 1,960.7 | 1,957.4 | 1,530.2 | 1,621.5 | 0.0 | 0.0 | 5,701.6 | 5,546.4 | 1,850.2 | 1,513.0 | 2,658.8 | 2,131.0 | 2,658.8 | 2,131.0 |
| Connecticut | 1.0 | 1.1 | 57.5 | 26.7 | 0.0 | 0.0 | 122.2 | 122.2 | 203.5 | 203.5 | 0.0 | 0.0 | 384.2 | 353.5 | 351.1 | 284.4 | 408.6 | 311.1 | 408.6 | 311.1 |
| Maine | 921.6 | 898.8 | 5.6 | 4.1 | 0.0 | 0.0 | 732.4 | 732.4 | 686.0 | 782.9 | 0.0 | 0.0 | 2,345.6 | 2,418.2 | 35.6 | 26.0 | 41.2 | 30.1 | 41.2 | 30.1 |
| Massachusetts | 94.4 | 94.5 | 652.6 | 511.3 | 0.0 | 0.0 | 267.4 | 265.9 | 285.3 | 282.9 | 0.0 | 0.0 | 1,299.7 | 1,154.6 | 1,239.7 | 1,034.6 | 1,892.3 | 1,545.9 | 1,892.3 | 1,545.9 |
| New Hampshire | 183.1 | 183.1 | 0.0 | 0.0 | 0.0 | 0.0 | 504.8 | 504.8 | 241.0 | 241.0 | 0.0 | 0.0 | 928.9 | 928.9 | 73.5 | 59.1 | 73.5 | 59.1 | 73.5 | 59.1 |
| Rhode Island | 51.8 | 51.8 | 18.7 | 10.2 | 0.0 | 0.0 | 2.7 | 2.7 | 40.1 | 36.9 | 0.0 | 0.0 | 113.3 | 101.6 | 56.3 | 32.4 | 75.0 | 42.6 | 75.0 | 42.6 |
| Vermont | 150.2 | 120.2 | 74.2 | 65.7 | 0.0 | 0.0 | 331.2 | 329.4 | 74.3 | 74.3 | 0.0 | 0.0 | 629.9 | 589.6 | 94.0 | 76.5 | 168.2 | 142.2 | 168.2 | 142.2 |
| Middle Atlantic | 3,205.6 | 3,204.1 | 866.9 | 780.1 | 0.0 | 0.0 | 5,637.3 | 5,630.7 | 1,304.8 | 1,311.7 | 0.0 | 0.0 | 11,014.6 | 10,926.6 | 2,662.5 | 2,195.3 | 3,529.4 | 2,975.4 | 3,529.4 | 2,975.4 |
| New Jersey | 7.6 | 7.6 | 653.9 | 617.1 | 0.0 | 0.0 | 12.3 | 12.3 | 227.3 | 227.3 | 0.0 | 0.0 | 901.1 | 864.3 | 1,340.5 | 1,127.7 | 1,994.4 | 1,744.8 | 1,994.4 | 1,744.8 |
| New York | 1,826.2 | 1,824.7 | 161.2 | 112.2 | 0.0 | 0.0 | 4,725.4 | 4,718.8 | 524.1 | 524.1 | 0.0 | 0.0 | 7,236.9 | 7,179.8 | 1,052.5 | 824.9 | 1,213.7 | 937.1 | 1,213.7 | 937.1 |
| Pennsylvania | 1,371.8 | 1,371.8 | 51.8 | 50.8 | 0.0 | 0.0 | 899.6 | 899.6 | 553.4 | 560.3 | 0.0 | 0.0 | 2,876.6 | 2,882.5 | 269.5 | 242.7 | 321.3 | 293.5 | 321.3 | 293.5 |
| East North Central | 9,142.2 | 8,322.7 | 401.8 | 293.5 | 0.0 | 0.0 | 857.3 | 853.1 | 1,288.8 | 1,291.4 | 0.0 | 0.0 | 11,690.1 | 10,760.7 | 322.0 | 230.5 | 723.8 | 524.0 | 723.8 | 524.0 |
| Illinois | 4,261.8 | 3,983.8 | 34.8 | 32.8 | 0.0 | 0.0 | 34.1 | 34.1 | 117.2 | 121.7 | 0.0 | 0.0 | 4,447.9 | 4,172.4 | 56.1 | 30.5 | 90.9 | 63.3 | 90.9 | 63.3 |
| Indiana | 2,109.4 | 1,889.7 | 196.7 | 172.6 | 0.0 | 0.0 | 60.4 | 60.4 | 80.3 | 83.5 | 0.0 | 0.0 | 2,446.8 | 2,206.2 | 58.8 | 17.1 | 255.5 | 189.7 | 255.5 | 189.7 |
| Michigan | 1,735.8 | 1,583.8 | 74.3 | 12.5 | 0.0 | 0.0 | 266.9 | 263.0 | 559.1 | 560.5 | 0.0 | 0.0 | 2,636.1 | 2,419.8 | 53.0 | 57.2 | 127.3 | 69.7 | 127.3 | 69.7 |
| Ohio | 605.9 | 533.9 | 75.1 | 67.5 | 0.0 | 0.0 | 101.9 | 101.9 | 147.4 | 139.9 | 0.0 | 0.0 | 930.3 | 843.2 | 106.2 | 90.7 | 181.3 | 158.2 | 181.3 | 158.2 |
| Wisconsin | 429.3 | 331.5 | 20.9 | 8.1 | 0.0 | 0.0 | 394.0 | 393.7 | 384.8 | 385.8 | 0.0 | 0.0 | 1,229.0 | 1,119.1 | 48.0 | 34.9 | 68.9 | 43.0 | 68.9 | 43.0 |
| West North Central | 22,248.5 | 21,139.7 | 692.3 | 293.1 | 0.0 | 0.0 | 3,293.7 | 3,289.4 | 557.4 | 553.1 | 0.0 | 0.0 | 26,791.9 | 25,275.3 | 280.5 | 226.5 | 972.8 | 519.6 | 972.8 | 519.6 |
| Iowa | 7,140.3 | 6,798.9 | 7.7 | 2.6 | 0.0 | 0.0 | 146.4 | 144.9 | 21.4 | 21.4 | 0.0 | 0.0 | 7,315.8 | 6,967.8 | 76.0 | 54.1 | 83.7 | 56.7 | 83.7 | 56.7 |
| Kansas | 5,117.8 | 4,939.6 | 4.2 | 1.2 | 0.0 | 0.0 | 7.0 | 7.0 | 9.0 | 9.0 | 0.0 | 0.0 | 5,138.0 | 4,956.8 | 12.7 | 9.1 | 16.9 | 10.3 | 16.9 | 10.3 |
| Minnesota | 3,707.9 | 3,506.5 | 625.5 | 253.3 | 0.0 | 0.0 | 205.9 | 205.9 | 485.0 | 480.7 | 0.0 | 0.0 | 5,024.3 | 4,446.4 | 51.1 | 35.9 | 676.6 | 289.2 | 676.6 | 289.2 |
| Missouri | 954.3 | 654.3 | 44.1 | 28.7 | 0.0 | 0.0 | 548.5 | 545.7 | 16.5 | 16.5 | 0.0 | 0.0 | 1,563.4 | 1,245.2 | 134.8 | 123.6 | 178.9 | 152.3 | 178.9 | 152.3 |
| Nebraska | 1,417.4 | 1,329.6 | 9.8 | 6.3 | 0.0 | 0.0 | 277.9 | 277.9 | 15.7 | 15.7 | 0.0 | 0.0 | 1,720.8 | 1,629.5 | 5.1 | 3.0 | 14.9 | 9.3 | 14.9 | 9.3 |
| North Dakota | 3,073.0 | 3,073.0 | 0.0 | 0.0 | 0.0 | 0.0 | 510.0 | 510.0 | 9.8 | 9.8 | 0.0 | 0.0 | 3,592.8 | 3,592.8 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| South Dakota | 837.8 | 837.8 | 1.0 | 1.0 | 0.0 | 0.0 | 1,598.0 | 1,598.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,436.8 | 2,436.8 | 0.5 | 0.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| South Atlantic | 1,086.3 | 1,086.3 | 6,389.5 | 4,281.4 | 0.0 | 0.0 | 7,276.9 | 7,270.8 | 4,359.9 | 4,337.1 | 0.0 | 0.0 | 19,112.6 | 16,975.6 | 1,464.1 | 1,145.5 | 7,853.6 | 5,426.9 | 7,853.6 | 5,426.9 |
| Delaware | 2.0 | 2.0 | 31.9 | 32.2 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 12.2 | 0.0 | 0.0 | 46.1 | 46.4 | 70.2 | 59.7 | 102.1 | 91.9 | 102.1 | 91.9 |
| District of Columbia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | 12.0 | 0.0 | 0.0 | 12.0 | 12.0 | 41.0 | 30.5 | 41.0 | 30.5 | 41.0 | 30.5 |
| Florida | 0.0 | 0.0 | 1,109.6 | 345.5 | 0.0 | 0.0 | 54.5 | 54.5 | 1,296.8 | 1,290.2 | 0.0 | 0.0 | 2,460.9 | 1,690.2 | 221.1 | 153.8 | 1,330.7 | 499.3 | 1,330.7 | 499.3 |
| Georgia | 0.0 | 0.0 | 1,010.9 | 968.1 | 0.0 | 0.0 | 2,047.2 | 2,047.2 | 901.9 | 893.4 | 0.0 | 0.0 | 3,960.0 | 3,908.7 | NM | 124.9 | NM | 1,093.0 | NM | 1,093.0 |
| Maryland | 190.0 | 190.0 | 225.1 | 163.9 | 0.0 | 0.0 | 590.0 | 590.0 | 142.0 | 142.0 | 0.0 | 0.0 | 1,147.1 | 1,085.9 | 652.4 | 534.6 | 877.5 | 698.5 | 877.5 | 698.5 |
| North Carolina | 208.0 | 208.0 | 3,383.8 | 2,648.8 | 0.0 | 0.0 | 2,002.0 | 2,002.0 | 571.6 | 564.1 | 0.0 | 0.0 | 6,165.4 | 5,422.9 | 120.8 | 119.7 | 3,504.6 | 2,768.5 | 3,504.6 | 2,768.5 |
| South Carolina | 0.0 | 0.0 | 258.9 | 19.3 | 0.0 | 0.0 | 1,367.7 | 1,361.6 | 531.0 | 530.8 | 0.0 | 0.0 | 2,157.6 | 1,911.7 | 146.5 | 79.7 | 405.4 | 99.0 | 405.4 | 99.0 |
| Virginia | 0.0 | 0.0 | 369.3 | 103.6 | 0.0 | 0.0 | 866.0 | 866.0 | 892.4 | 892.4 | 0.0 | 0.0 | 2,127.7 | 1,862.0 | 51.5 | 37.7 | 420.8 | 141.3 | 420.8 | 141.3 |
| West Virginia | 686.3 | 686.3 | 0.0 | 0.0 | 0.0 | 0.0 | 349.5 | 349.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1,035.8 | 1,035.8 | 6.0 | 5.0 | 6.0 | 5.0 | 6.0 | 5.0 |
| East South Central | 29.1 | 29.1 | 447.3 | 169.0 | 0.0 | 0.0 | 7,035.7 | 6,957.2 | 1,229.0 | 1,265.6 | 0.0 | 0.0 | 8,741.1 | 8,420.9 | 88.2 | 79.2 | 535.5 | 248.2 | 535.5 | 248.2 |
| Alabama | 0.0 | 0.0 | 172.2 | 85.6 | 0.0 | 0.0 | 3,270.2 | 3,270.2 | 685.9 | 722.5 | 0.0 | 0.0 | 4,128.3 | 4,078.3 | NM | NM | NM | NM | NM | NM |
| Kentucky | 0.0 | 0.0 | 25.2 | 10.0 | 0.0 | 0.0 | 1,146.9 | 1,068.4 | 72.2 | 72.2 | 0.0 | 0.0 | 1,244.3 | 1,150.6 | 18.0 | 15.2 | 43.2 | 25.2 | 43.2 | 25.2 |
| Mississippi | 0.0 | 0.0 | 160.6 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 274.7 | 274.7 | 0.0 | 0.0 | 435.3 | 277.8 | 9.5 | 5.8 | 170.1 | 8.9 | 170.1 | 8.9 |
| Tennessee | 29.1 | 29.1 | 89.3 | 70.3 | 0.0 | 0.0 | 2,618.6 | 2,618.6 | 196.2 | 196.2 | 0.0 | 0.0 | 2,933.2 | 2,914.2 | 55.3 | 53.5 | 144.6 | 123.8 | 144.6 | 123.8 |
| West South Central | 30,271.7 | 27,398.8 | 1,349.9 | 1,000.3 | 0.0 | 0.0 | 2,987.5 | 2,990.3 | 1,311.4 | 1,325.2 | 0.0 | 0.0 | 35,920.5 | 32,714.6 | 665.8 | 521.8 | 2,015.7 | 1,522.1 | 2,015.7 | 1,522.1 |
| Arkansas | 0.0 | 0.0 | 94.0 | 13.0 | 0.0 | 0.0 | 1,263.9 | 1,266.7 | 330.4 | 330.4 | 0.0 | 0.0 | 1,688.3 | 1,610.1 | 10.7 | 6.1 | 104.7 | 19.1 | 104.7 | 19.1 |
| Louisiana | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 192.0 | 192.0 | 490.1 | 490.1 | 0.0 | 0.0 | 683.2 | 682.1 | 134.5 | 122.2 | 135.6 | 122.2 | 135.6 | 122.2 |
| Oklahoma | 7,494.8 | 6,644.1 | 30.5 | 15.5 | 0.0 | 0.0 | 861.6 | 861.6 | 76.2 | 76.2 | 0.0 | 0.0 | 8,463.1 | 7,597.4 | 5.8 | 3.2 | 36.3 | 18.7 | 36.3 | 18.7 |
| Texas | 22,776.9 | 20,754.7 | 1,224.3 | 971.8 | 0.0 | 0.0 | 670.0 | 670.0 | 414.7 | 428.5 | 0.0 | 0.0 | 25,085.9 | 22,825.0 | 514.8 | 390.3 | 1,739.1 | 1,362.1 | 1,739.1 | 1,362.1 |
| Mountain | 8,837.5 | 8,404.5 | 5,524.8 | 5,174.4 | 473.9 | 473.9 | 10,561.4 | 10,562.8 | 174.3 | 176.1 | 580.3 | 543.3 | 26,152.2 | 25,335.0 | 2,004.1 | 1,663.8 | 7,528.9 | 6,838.2 | 8,002.8 | 7,312.1 |
| Arizona | 267.3 | 267.3 | 1,721.5 | 1,651.2 | 295.4 | 295.4 | 2,720.9 | 2,720.9 | 30.7 | 30.7 | 0.0 | 0.0 | 5,035.8 | 4,965.5 | 1,052.8 | 883.7 | 2,774.3 | 2,534.9 | 3,069.7 | 2,830.3 |
| Colorado | 3,106.2 | 3,026.1 | 460.3 | 418.7 | 0.0 | 0.0 | 687.4 | 687.4 | 28.7 | 28.7 | 0.0 | 0.0 | 4,282.6 | 4,160.9 | 337.1 | 303.8 | 797.4 | 722.5 | 797.4 | 722.5 |
| Idaho | 970.5 | 970.5 | 240.0 | 240.0 | 0.0 | 0.0 | 2,707.5 | 2,708.9 | 83.9 | 83.9 | 10.0 | 10.0 | 4,011.9 | 4,013.3 | 16.8 | 8.3 | 256.8 | 248.3 | 256.8 | 248.3 |
| Montana | 703.5 | 678.5 | 17.0 | 8.0 | 0.0 | 0.0 | 2,747.8 | 2,747.8 | 3.0 | 3.0 | 0.0 | 0.0 | 3,471.3 | 3,437.3 | 11.6 | 9.1 | 28.6 | 17.1 | 28.6 | 17.1 |
| Nevada | 150.0 | 150.0 | 1,684.6 | 1,495.0 | 178.5 | 178.5 | 1,051.4 | 1,051.4 | 9.8 | 9.8 | 495.7 | 458.7 | 3,570.0 | 3,343.4 | 245.8 | 212.8 | 1,930.4 | 1,707.8 | 2,108.9 | 1,886.3 |
| New Mexico | 1,764.5 | 1,436.6 | 544.3 | 504.4 | 0.0 | 0.0 | 82.9 | 82.9 | 5.4 | 5.6 | 1.6 | 1.6 | 2,398.7 | 2,031.1 | 126.9 | 95.4 | 671.2 | 599.8 | 671.2 | 599.8 |
| Utah | 388.2 | 388.2 | 857.1 | 857.1 | 0.0 | 0.0 | 256.4 | 256.4 | 12.8 | 14.4 | 73.0 | 73.0 | 1,587.5 | 1,589.1 | 209.4 | 148.2 | 1,066.5 | 1,005.3 | 1,066.5 | 1,005.3 |
| Wyoming | 1,487.3 | 1,487.3 | 0.0 | 0.0 | 0.0 | 0.0 | 307.1 | 307.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1,794.4 | 1,794.4 | 3.7 | 2.6 | 3.7 | 2.6 | 3.7 | 2.6 |
| Pacific Contiguous | 12,134.0 | 11,941.7 | 10,147.2 | 8,837.6 | 1,284.0 | 1,284.0 | 39,854.4 | 39,909.8 | 2,002.8 | 2,028.0 | 1,862.3 | 1,869.3 | 67,284.7 | 65,870.4 | 7,301.7 | 5,849.3 | 17,448.9 | 14,686.9 | 18,732.9 | 15,970.9 |
| California | 5,850.7 | 5,658.4 | 9,910.0 | 8,737.2 | 1,284.0 | 1,284.0 | 10,197.7 | 10,190.4 | 1,277.4 | 1,315.2 | 1,842.8 | 1,849.8 | 30,362.6 | 29,035.0 | 7,051.8 | 5,641.7 | 16,961.8 | 14,378.9 | 18,245.8 | 15,662.9 |
| Oregon | 3,210.2 | 3,210.2 | 236.7 | 99.9 | 0.0 | 0.0 | 8,423.2 | 8,423.2 | 314.7 | 308.4 | 19.5 | 19.5 | 12,204.3 | 12,061.2 | 143.2 | 124.8 | 379.9 | 224.7 | 379.9 | 224.7 |
| Washington | 3,073.1 | 3,073.1 | 0.5 | 0.5 | 0.0 | 0.0 | 21,233.5 | 21,296.2 | 410.7 | 404.4 | 0.0 | 0.0 | 24,717.8 | 24,774.2 | 106.7 | 82.8 | 107.2 | 83.3 | 107.2 | 83.3 |
| Pacific Noncontiguous | 266.2 | 266.2 | 98.3 | 83.3 | 0.0 | 0.0 | 496.3 | 496.3 | 224.3 | 214.3 | 43.0 | 43.0 | 1,128.1 | 1,103.1 | 589.1 | 546.5 | 687.4 | 629.8 | 687.4 | 629.8 |
| Alaska | 60.6 | 60.6 | 0.0 | 0.0 | 0.0 | 0.0 | 470.4 | 470.4 | 7.0 | 7.0 | 0.0 | 0.0 | 538.0 | 538.0 | 2.2 | 1.6 | 2.2 | 1.6 | 2.2 | 1.6 |
| Hawaii | 205.6 | 205.6 | 98.3 | 83.3 | 0.0 | 0.0 | 25.9 | 25.9 | 217.3 | 207.3 | 43.0 | 43.0 | 590.1 | 565.1 | 586.9 | 544.9 | 685.2 | 628.2 | 685.2 | 628.2 |
| U.S. Total | 88,623.2 | 83,142.6 | 26,726.6 | 21,530.7 | 1,757.9 | 1,757.9 | 79,961.2 | 79,917.8 | 13,982.9 | 14,124.0 | 2,485.6 | 2,455.6 | 213,537.4 | 202,928.6 | 17,228.3 | 13,971.4 | 43,954.9 | 35,502.1 | 45,712.8 | 37,260.0 |

NM = Not meaningful due to large relative standard error.
Values are preliminary.

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.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

**Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, April 2018 and 2017 (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 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 | April 2018 | April 2017 |
| New England | 11,897.8 | 12,048.8 | 1,112.0 | 1,088.9 | 1,594.8 | 1,051.7 | 917.3 | 1,955.3 | 0.0 | 0.0 | 5,705.8 | 6,591.0 | 0.0 | 0.0 | 21,227.7 | 22,735.7 |
| Connecticut | 2,370.2 | 2,550.4 | 477.6 | 467.3 | 872.0 | 424.6 | 383.4 | 383.4 | 0.0 | 0.0 | 2,035.1 | 2,483.0 | 0.0 | 0.0 | 6,138.3 | 6,308.7 |
| Maine | 1,250.0 | 1,250.0 | 297.1 | 297.1 | 110.5 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 880.9 | 880.9 | 0.0 | 0.0 | 2,538.5 | 2,442.5 |
| Massachusetts | 5,259.4 | 5,230.2 | 333.5 | 320.7 | 199.7 | 200.0 | 0.0 | 1,038.0 | 0.0 | 0.0 | 2,585.7 | 3,016.1 | 0.0 | 0.0 | 8,378.3 | 9,805.0 |
| New Hampshire | 1,231.0 | 1,231.0 | 3.8 | 3.8 | 400.2 | 400.2 | 533.9 | 533.9 | 0.0 | 0.0 | 94.0 | 97.1 | 0.0 | 0.0 | 2,262.9 | 2,266.0 |
| Rhode Island | 1,787.2 | 1,787.2 | 0.0 | 0.0 | 12.4 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 16.0 | 0.0 | 0.0 | 1,811.8 | 1,815.6 |
| Vermont | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 97.9 | 97.9 | 0.0 | 0.0 | 97.9 | 97.9 |
| Middle Atlantic | 26,936.3 | 26,312.9 | 7,697.4 | 7,712.9 | 15,124.6 | 14,240.8 | 13,534.2 | 15,617.2 | 78.6 | 78.6 | 5,396.1 | 5,380.4 | 129.2 | 125.2 | 68,896.4 | 69,468.0 |
| New Jersey | 8,158.0 | 8,118.9 | 2,860.0 | 2,857.3 | 493.2 | 1,052.4 | 613.0 | 1,245.0 | 11.6 | 11.6 | 228.0 | 222.2 | 23.4 | 23.4 | 12,387.2 | 13,530.8 |
| New York | 8,191.7 | 8,125.3 | 3,157.1 | 3,176.1 | 9,688.5 | 9,677.3 | 1,640.2 | 1,640.2 | 0.0 | 0.0 | 3,559.4 | 3,547.3 | 0.0 | 0.0 | 26,236.9 | 26,166.2 |
| Pennsylvania | 10,586.6 | 10,068.7 | 1,680.3 | 1,679.5 | 4,942.9 | 3,511.1 | 11,281.0 | 12,732.0 | 67.0 | 67.0 | 1,608.7 | 1,610.9 | 105.8 | 101.8 | 30,272.3 | 29,771.0 |
| East North Central | 20,206.5 | 17,138.0 | 26,536.1 | 26,515.8 | 4,204.4 | 3,906.3 | 59,492.3 | 61,604.1 | 247.6 | 247.6 | 2,641.3 | 2,657.8 | 1,092.9 | 1,165.9 | 114,421.1 | 113,235.5 |
| Illinois | 3,580.2 | 3,576.8 | 10,388.3 | 10,313.3 | 288.9 | 290.9 | 13,966.0 | 14,015.1 | 0.0 | 0.0 | 674.2 | 677.2 | 36.5 | 114.5 | 28,934.1 | 28,987.8 |
| Indiana | 3,753.0 | 2,406.0 | 3,355.8 | 3,413.2 | 729.1 | 725.9 | 15,761.4 | 15,773.8 | 0.0 | 0.0 | 237.8 | 237.8 | 619.3 | 614.3 | 24,456.4 | 23,171.0 |
| Michigan | 4,421.0 | 4,294.5 | 3,977.6 | 3,977.7 | 2,387.6 | 2,134.7 | 9,218.7 | 9,414.2 | 47.2 | 47.2 | 488.4 | 498.4 | 250.0 | 250.0 | 20,790.5 | 20,616.7 |
| Ohio | 5,704.0 | 4,117.8 | 5,442.1 | 5,431.7 | 188.2 | 157.3 | 14,605.4 | 15,263.6 | 142.0 | 142.0 | 636.5 | 640.0 | 187.1 | 187.1 | 26,905.3 | 25,939.5 |
| Wisconsin | 2,748.3 | 2,742.9 | 3,372.3 | 3,379.9 | 610.6 | 597.5 | 5,940.8 | 7,137.4 | 58.4 | 58.4 | 604.4 | 604.4 | 0.0 | 0.0 | 13,334.8 | 14,520.5 |
| West North Central | 6,635.2 | 6,641.9 | 11,739.3 | 11,378.7 | 4,581.0 | 4,369.3 | 34,009.5 | 34,625.1 | 32.0 | 32.0 | 3,845.2 | 4,044.9 | 8.4 | 8.4 | 60,850.6 | 61,100.3 |
| Iowa | 1,774.7 | 1,774.7 | 1,266.6 | 1,192.9 | 655.6 | 675.2 | 5,391.4 | 5,548.8 | 32.0 | 32.0 | 798.1 | 961.7 | 0.0 | 0.0 | 9,918.4 | 10,185.3 |
| Kansas | 266.0 | 266.0 | 2,148.3 | 2,154.0 | 2,096.7 | 2,113.2 | 4,714.2 | 4,714.2 | 0.0 | 0.0 | 550.6 | 548.0 | 0.0 | 0.0 | 9,775.8 | 9,795.4 |
| Minnesota | 2,172.0 | 2,172.0 | 2,671.4 | 2,437.9 | 361.1 | 375.1 | 4,309.4 | 4,309.4 | 0.0 | 0.0 | 787.1 | 794.9 | 0.0 | 0.0 | 10,301.0 | 10,089.3 |
| Missouri | 1,789.9 | 1,796.6 | 3,399.6 | 3,420.5 | 836.1 | 501.0 | 11,260.8 | 11,726.1 | 0.0 | 0.0 | 1,100.5 | 1,134.2 | 0.0 | 0.0 | 18,386.9 | 18,578.4 |
| Nebraska | 342.6 | 342.6 | 1,150.8 | 1,150.8 | 511.2 | 584.5 | 3,817.3 | 3,817.3 | 0.0 | 0.0 | 321.2 | 320.3 | 0.0 | 0.0 | 6,143.1 | 6,215.5 |
| North Dakota | 0.0 | 0.0 | 408.0 | 328.0 | 111.6 | 111.6 | 4,042.4 | 4,035.3 | 0.0 | 0.0 | 63.2 | 61.3 | 8.4 | 8.4 | 4,633.6 | 4,544.6 |
| South Dakota | 290.0 | 290.0 | 694.6 | 694.6 | 8.7 | 8.7 | 474.0 | 474.0 | 0.0 | 0.0 | 224.5 | 224.5 | 0.0 | 0.0 | 1,691.8 | 1,691.8 |
| South Atlantic | 54,499.9 | 52,646.5 | 32,702.8 | 32,359.1 | 7,317.0 | 7,272.4 | 55,186.3 | 56,870.7 | 83.8 | 83.8 | 10,408.0 | 10,511.6 | 135.0 | 135.0 | 160,332.8 | 159,879.1 |
| Delaware | 1,512.0 | 1,512.0 | 317.2 | 315.2 | 843.1 | 877.7 | 410.0 | 410.0 | 0.0 | 0.0 | 114.1 | 114.1 | 135.0 | 135.0 | 3,331.4 | 3,364.0 |
| District of Columbia | 0.0 | 0.0 | 9.0 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 9.0 |
| Florida | 27,351.7 | 27,444.7 | 8,506.3 | 8,556.3 | 2,479.6 | 2,469.3 | 8,629.0 | 9,881.0 | 0.0 | 0.0 | 4,970.0 | 4,974.0 | 0.0 | 0.0 | 51,936.6 | 53,325.3 |
| Georgia | 7,963.9 | 7,963.9 | 7,787.2 | 7,787.2 | 842.9 | 796.4 | 9,350.5 | 9,360.5 | 83.8 | 83.8 | 945.4 | 946.6 | 0.0 | 0.0 | 26,973.7 | 26,938.4 |
| Maryland | 2,169.6 | 976.0 | 1,957.6 | 1,966.2 | 1,414.2 | 1,414.2 | 4,712.0 | 4,712.0 | 0.0 | 0.0 | 1,219.9 | 1,218.9 | 0.0 | 0.0 | 11,473.3 | 10,287.3 |
| North Carolina | 4,724.8 | 4,724.8 | 6,045.1 | 5,957.7 | 0.0 | 0.0 | 10,536.8 | 10,536.8 | 0.0 | 0.0 | 337.6 | 385.6 | 0.0 | 0.0 | 21,644.3 | 21,604.9 |
| South Carolina | 3,152.0 | 2,399.0 | 2,814.8 | 2,801.9 | 546.0 | 546.0 | 5,212.0 | 5,212.0 | 0.0 | 0.0 | 463.4 | 513.4 | 0.0 | 0.0 | 12,188.2 | 11,472.3 |
| Virginia | 7,625.9 | 7,626.1 | 4,194.3 | 3,894.3 | 1,068.2 | 1,045.8 | 3,778.0 | 3,800.4 | 0.0 | 0.0 | 2,346.6 | 2,348.0 | 0.0 | 0.0 | 19,013.0 | 18,714.6 |
| West Virginia | 0.0 | 0.0 | 1,071.3 | 1,071.3 | 123.0 | 123.0 | 12,558.0 | 12,958.0 | 0.0 | 0.0 | 11.0 | 11.0 | 0.0 | 0.0 | 13,763.3 | 14,163.3 |
| East South Central | 21,537.7 | 20,197.9 | 12,646.9 | 13,002.4 | 5,114.8 | 5,371.9 | 25,795.5 | 26,980.5 | 0.0 | 0.0 | 142.0 | 142.0 | 19.8 | 19.8 | 65,256.7 | 65,714.5 |
| Alabama | 9,471.9 | 9,441.4 | 2,532.2 | 2,532.2 | 1,959.3 | 1,941.4 | 6,283.4 | 6,283.4 | 0.0 | 0.0 | 42.6 | 42.6 | 19.8 | 19.8 | 20,309.2 | 20,260.8 |
| Kentucky | 1,763.0 | 1,763.0 | 4,976.6 | 4,976.6 | 260.0 | 260.0 | 11,862.8 | 11,862.8 | 0.0 | 0.0 | 11.9 | 11.9 | 0.0 | 0.0 | 18,874.3 | 18,874.3 |
| Mississippi | 7,847.7 | 7,590.5 | 1,357.6 | 1,718.9 | 2,829.3 | 3,104.3 | 1,804.0 | 1,820.0 | 0.0 | 0.0 | 44.3 | 44.3 | 0.0 | 0.0 | 13,882.9 | 14,278.0 |
| Tennessee | 2,455.1 | 1,403.0 | 3,780.5 | 3,774.7 | 66.2 | 66.2 | 5,845.3 | 7,014.3 | 0.0 | 0.0 | 43.2 | 43.2 | 0.0 | 0.0 | 12,190.3 | 12,301.4 |
| West South Central | 60,656.5 | 58,025.8 | 13,976.4 | 13,423.6 | 31,173.5 | 31,730.3 | 32,111.2 | 36,423.7 | 957.9 | 955.7 | 174.8 | 181.3 | 655.3 | 655.3 | 139,705.6 | 141,395.7 |
| Arkansas | 4,566.0 | 4,620.5 | 702.8 | 702.8 | 802.0 | 793.7 | 5,110.0 | 5,116.0 | 0.0 | 0.0 | 12.2 | 12.2 | 0.0 | 0.0 | 11,193.0 | 11,245.2 |
| Louisiana | 7,537.0 | 7,552.8 | 2,357.9 | 2,372.8 | 6,528.4 | 6,573.9 | 2,832.6 | 2,852.9 | 894.1 | 891.9 | 43.3 | 45.5 | 407.4 | 407.4 | 20,600.7 | 20,697.2 |
| Oklahoma | 7,296.5 | 6,783.7 | 1,684.9 | 1,287.9 | 4,745.5 | 5,164.9 | 4,852.6 | 4,865.8 | 0.0 | 0.0 | 74.4 | 74.4 | 0.0 | 0.0 | 18,653.9 | 18,176.7 |
| Texas | 41,257.0 | 39,068.8 | 9,230.8 | 9,060.1 | 19,097.6 | 19,197.8 | 19,316.0 | 23,589.0 | 63.8 | 63.8 | 44.9 | 49.2 | 247.9 | 247.9 | 89,258.0 | 91,276.6 |
| Mountain | 22,483.8 | 22,483.8 | 8,638.9 | 8,659.0 | 3,663.9 | 3,341.9 | 26,989.0 | 28,367.6 | 52.0 | 52.0 | 356.3 | 370.8 | 107.4 | 111.6 | 62,291.3 | 63,386.7 |
| Arizona | 9,891.6 | 9,891.6 | 2,367.6 | 2,367.6 | 1,303.6 | 1,303.6 | 5,754.0 | 5,754.0 | 0.0 | 0.0 | 90.5 | 90.5 | 0.0 | 0.0 | 19,407.3 | 19,407.3 |
| Colorado | 3,240.5 | 3,240.5 | 2,572.3 | 2,572.3 | 639.0 | 329.0 | 4,499.0 | 5,035.0 | 0.0 | 0.0 | 168.4 | 168.4 | 0.0 | 0.0 | 11,119.2 | 11,345.2 |
| Idaho | 547.7 | 547.7 | 552.0 | 562.1 | 14.0 | 14.0 | 8.5 | 8.5 | 0.0 | 0.0 | 5.4 | 5.4 | 0.0 | 0.0 | 1,127.6 | 1,137.7 |
| Montana | 0.0 | 0.0 | 321.6 | 321.6 | 72.2 | 72.2 | 2,293.1 | 2,293.1 | 52.0 | 52.0 | 0.0 | 0.0 | 1.5 | 1.5 | 2,740.4 | 2,740.4 |
| Nevada | 5,415.0 | 5,415.0 | 1,185.6 | 1,185.6 | 444.6 | 444.6 | 740.4 | 740.4 | 0.0 | 0.0 | 6.0 | 6.0 | 0.0 | 0.0 | 7,791.6 | 7,791.6 |
| New Mexico | 1,465.0 | 1,465.0 | 966.0 | 976.0 | 849.4 | 849.4 | 2,634.0 | 3,471.0 | 0.0 | 0.0 | 52.4 | 66.9 | 0.0 | 0.0 | 5,966.8 | 6,828.3 |
| Utah | 1,830.0 | 1,830.0 | 520.2 | 520.2 | 328.2 | 316.2 | 4,654.0 | 4,654.0 | 0.0 | 0.0 | 27.8 | 27.8 | 0.0 | 0.0 | 7,360.2 | 7,348.2 |
| Wyoming | 94.0 | 94.0 | 153.6 | 153.6 | 12.9 | 12.9 | 6,406.0 | 6,411.6 | 0.0 | 0.0 | 5.8 | 5.8 | 105.9 | 110.1 | 6,778.2 | 6,788.0 |
| Pacific Contiguous | 25,977.9 | 25,979.2 | 11,531.8 | 11,790.3 | 8,422.0 | 8,877.0 | 1,982.0 | 1,982.0 | 17.0 | 17.0 | 470.9 | 485.3 | 221.4 | 229.3 | 48,623.0 | 49,360.1 |
| California | 19,949.4 | 19,962.8 | 10,678.6 | 10,937.1 | 8,166.0 | 8,621.0 | 57.0 | 57.0 | 17.0 | 17.0 | 455.7 | 470.1 | 221.4 | 229.3 | 39,545.1 | 40,294.3 |
| Oregon | 3,374.9 | 3,374.9 | 133.8 | 133.8 | 224.4 | 224.4 | 585.0 | 585.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4,318.1 | 4,318.1 |
| Washington | 2,653.6 | 2,641.5 | 719.4 | 719.4 | 31.6 | 31.6 | 1,340.0 | 1,340.0 | 0.0 | 0.0 | 15.2 | 15.2 | 0.0 | 0.0 | 4,759.8 | 4,747.7 |
| Pacific Noncontiguous | 479.2 | 479.2 | 626.3 | 626.3 | 175.0 | 175.0 | 332.8 | 333.8 | 0.0 | 0.0 | 2,600.2 | 2,595.9 | 6.4 | 6.4 | 4,219.9 | 4,216.6 |
| Alaska | 479.2 | 479.2 | 626.3 | 626.3 | 175.0 | 175.0 | 152.8 | 153.8 | 0.0 | 0.0 | 728.3 | 725.1 | 0.0 | 0.0 | 2,161.6 | 2,159.4 |
| Hawaii | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 180.0 | 180.0 | 0.0 | 0.0 | 1,871.9 | 1,870.8 | 6.4 | 6.4 | 2,058.3 | 2,057.2 |
| U.S. Total | 251,310.8 | 241,954.0 | 127,207.9 | 126,557.0 | 81,371.0 | 80,336.6 | 250,350.1 | 264,760.0 | 1,468.9 | 1,466.7 | 31,740.6 | 32,961.0 | 2,375.8 | 2,456.9 | 745,825.1 | 750,492.2 |

NM = Not meaningful due to large relative standard error.
Values are preliminary.

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 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 1 | 60118 | 83WI 8ME, LLC | IPP | Midway Solar Farm 1 | CA | 60336 | MSF1 | 50.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60571 | AEP Onsite Partners | IPP | Porter Way Community Solar Garden | MN | 61500 | PV1 | 3.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 221 | Alaska Village Elec Coop, Inc | Electric Utility | Brevig Mission | AK | 60260 | 3A | 0.4 | Petroleum Liquids | DFO | IC |
| 2018 | 1 | 56769 | Consolidated Edison Development Inc. | IPP | Panoche Valley Solar Farm | CA | 57340 | 1 | 240.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 4254 | Consumers Energy Co | Electric Utility | Cross Winds Energy Park | MI | 58830 | CWEP2 | 44.0 | Onshore Wind Turbine | WND | WT |
| 2018 | 1 | 61060 | Cypress Creek Renewables | IPP | LeSun CSG, LLC | MN | 61544 | GEN1 | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61060 | Cypress Creek Renewables | IPP | WrightSun CSG, LLC | MN | 61547 | GEN1 | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60370 | DG AMP Solar, LLC | IPP | DG AMP Solar Versailles | OH | 61437 | AMPVS | 1.8 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61187 | DG Minnesota CSG, LLC | IPP | Scandia CSG | MN | 61585 | 40802 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61187 | DG Minnesota CSG, LLC | IPP | Scandia CSG | MN | 61585 | 40803 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61187 | DG Minnesota CSG, LLC | IPP | Scandia CSG | MN | 61585 | 40804 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61187 | DG Minnesota CSG, LLC | IPP | Scandia CSG | MN | 61585 | 40805 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61187 | DG Minnesota CSG, LLC | IPP | Scandia CSG | MN | 61585 | 40806 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 56215 | E ON Climate Renewables N America LLC | IPP | Pyron Wind Farm LLC | TX | 56981 | PYRBT | 9.9 | Batteries | MWH | BA |
| 2018 | 1 | 57249 | EPP Renewable Energy | IPP | Haworth Water Treatment Plant | NJ | 56701 | GEN5 | 3.9 | Petroleum Liquids | DFO | IC |
| 2018 | 1 | 57249 | EPP Renewable Energy | IPP | Haworth Water Treatment Plant | NJ | 56701 | GEN6 | 3.9 | Petroleum Liquids | DFO | IC |
| 2018 | 1 | 60853 | ET CAP OR HOLDINGS LLC | IPP | OR Solar 5, LLC | OR | 61423 | PV1 | 8.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61015 | ETCAP NES CS MN 08 LLC | IPP | Johnson Solar | MN | 61380 | JOHN1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61015 | ETCAP NES CS MN 08 LLC | IPP | Johnson Solar | MN | 61380 | JOHN2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61015 | ETCAP NES CS MN 08 LLC | IPP | Johnson Solar | MN | 61380 | JOHN3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61015 | ETCAP NES CS MN 08 LLC | IPP | Johnson Solar | MN | 61380 | JOHN4 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 61015 | ETCAP NES CS MN 08 LLC | IPP | Johnson Solar | MN | 61380 | JOHN5 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 59218 | East. Michigan Univ. Heating Plant | Commercial | East. Michigan Univ. Heating Plant | MI | 59452 | COGN2 | 6.8 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Coral Farms Solar Energy Center | FL | 61022 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Horizon Solar Energy Center | FL | 61021 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Indian River Solar Center | FL | 61020 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Wildflower Solar Energy Center | FL | 61050 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 7140 | Georgia Power Co | Electric Utility | Comer Solar | GA | 61554 | 1 | 2.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 59462 | Heelstone Energy Holdings, LLC | IPP | Chiloquin Solar, LLC | OR | 61631 | CHILO | 9.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 12341 | MidAmerican Energy Co | IPP | Prairie Wind Farm | IA | 60873 | PWE | 168.0 | Onshore Wind Turbine | WND | WT |
| 2018 | 1 | 61227 | Nautilus Solar Solutions | IPP | Kilroy Solar | CA | 61628 | KILRO | 1.1 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60644 | OEE XXIV LLC | Industrial | Whirlpool Corporation - Ottawa Wind Farm | OH | 61004 | W1 | 1.5 | Onshore Wind Turbine | WND | WT |
| 2018 | 1 | 49748 | ORCAL Geothermal, Inc | IPP | Heber Geothermal | CA | 54689 | 4 | 16.0 | Geothermal | GEO | BT |
| 2018 | 1 | 60882 | Red Dirt Wind Project, LLC | IPP | Red Dirt Wind Project | OK | 61270 | RDDRT | 299.3 | Onshore Wind Turbine | WND | WT |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Gopher CSG | MN | 61426 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Lahr 1, LLC | MN | 61203 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Nesvold Watertown Solar | MN | 60958 | PV1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Nesvold Watertown Solar | MN | 60958 | PV2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Nesvold Watertown Solar | MN | 60958 | PV3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Nesvold Watertown Solar | MN | 60958 | PV4 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Nesvold Watertown Solar | MN | 60958 | PV5 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60520 | SoCore Energy LLC | IPP | Taylors Falls CSG | MN | 61428 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60871 | Stuttgart Solar, LLC | IPP | Stuttgart Solar | AR | 61262 | STGRT | 81.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 1 | 60881 | Thunder Ranch Wind Project, LLC | IPP | Thunder Ranch Wind Project | OK | 61269 | WT1 | 297.8 | Onshore Wind Turbine | WND | WT |
| 2018 | 1 | 24431 | Utah Municipal Power Agency | Electric Utility | Provo Power Plant | UT | 61508 | 1 | 2.4 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 1 | 24431 | Utah Municipal Power Agency | Electric Utility | Provo Power Plant | UT | 61508 | 2 | 2.4 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 1 | 24431 | Utah Municipal Power Agency | Electric Utility | Provo Power Plant | UT | 61508 | 3 | 2.4 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 1 | 24431 | Utah Municipal Power Agency | Electric Utility | Provo Power Plant | UT | 61508 | 4 | 2.4 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 1 | 24431 | Utah Municipal Power Agency | Electric Utility | Provo Power Plant | UT | 61508 | 5 | 2.4 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 2 | 61105 | ABEC #2 LLC | IPP | ABEC #2 dba West-Star Dairy | CA | 61501 | GEN1 | 1.0 | Other Waste Biomass | OBG | IC |
| 2018 | 2 | 61106 | ABEC #3 LLC | IPP | ABEC #3 dba Lakeview Dairy | CA | 61502 | GEN1 | 1.0 | Other Waste Biomass | OBG | IC |
| 2018 | 2 | 61107 | ABEC #4 LLC | IPP | ABEC #4 dba CE&S Dairy | CA | 61503 | GEN1 | 1.0 | Other Waste Biomass | OBG | IC |
| 2018 | 2 | 61344 | Advanced Microgrid Solutions | IPP | HEBT Irvine 2 | CA | 61723 | IRV2W | 3.3 | Batteries | MWH | BA |
| 2018 | 2 | 59247 | Bearford Solar II, LLC | IPP | Bearford Solar II | NC | 59488 | BEARF | 4.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61006 | Bearkat TE Partnership LLC | IPP | Bearkat | TX | 59972 | BRKAT | 360.0 | Onshore Wind Turbine | WND | WT |
| 2018 | 2 | 60827 | Carina Community Solar | IPP | Carina Community Solar | MN | 61179 | JCCS1 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60827 | Carina Community Solar | IPP | Carina Community Solar | MN | 61179 | JCCS2 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60827 | Carina Community Solar | IPP | Carina Community Solar | MN | 61179 | JCCS3 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60827 | Carina Community Solar | IPP | Carina Community Solar | MN | 61179 | JCCS4 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 56769 | Consolidated Edison Development Inc. | IPP | Big Timber Wind Farm | MT | 61155 | BT-MT | 25.0 | Onshore Wind Turbine | WND | WT |
| 2018 | 2 | 60370 | DG AMP Solar, LLC | IPP | DG AMP Solar Coldwater | MI | 61435 | AMPCW | 1.3 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60370 | DG AMP Solar, LLC | IPP | DG AMP Solar Jackson Center | OH | 61438 | AMPJC | 1.6 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60370 | DG AMP Solar, LLC | IPP | DG AMP Solar Orrville 3 | OH | 61436 | AMPO3 | 2.3 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 57249 | EPP Renewable Energy | IPP | Pennsauken Solar | NJ | 56883 | GEN10 | 2.4 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 7140 | Georgia Power Co | Electric Utility | Marine Corps Logistics Base Solar | GA | 59876 | 1 | 31.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61171 | Lake Waconia Solar IV LLC | IPP | Lake Waconia IV Community Solar Garden | MN | 61573 | 40926 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61170 | Lake Waconia Solar LLC | IPP | Lake Waconia Community Solar Garden | MN | 61572 | 38610 | 1.0 | Solar Photovoltaic | SUN | PV |

**Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 2 | 60830 | Lyra Community Solar | IPP | Lyra Community Solar | MN | 61182 | RLCS1 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60830 | Lyra Community Solar | IPP | Lyra Community Solar | MN | 61182 | RLCS2 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60830 | Lyra Community Solar | IPP | Lyra Community Solar | MN | 61182 | RLCS3 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61156 | NMRD Data Center, LLC | IPP | Facebook 2 Solar Energy Center | NM | 61557 | FB2 | 10.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 17470 | PUD 1 of Snohomish County | Electric Utility | Calligan Creek Hydroelectric Project | WA | 60418 | CC6MW | 6.0 | Conventional Hydroelectric | WAT | HY |
| 2018 | 2 | 17470 | PUD 1 of Snohomish County | Electric Utility | Hancock Creek Hydroelectric Project | WA | 60517 | HY1 | 6.0 | Conventional Hydroelectric | WAT | HY |
| 2018 | 2 | 60755 | Phelps 158 Solar Farm, LLC | IPP | Phelps 158 Solar Farm | NC | 61134 | 15800 | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 60947 | Tesla Inc. | IPP | Greene County Meter #1 | NY | 60463 | PV1 | 1.6 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61168 | Veseli Solar I LLC | IPP | Veseli Community Solar Garden | MN | 61570 | 40921 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61144 | WasecaSun, LLC | IPP | WasecaSun | MN | 61142 | 0000H | 3.4 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61144 | WasecaSun, LLC | IPP | WasecaSun | MN | 61142 | WASE2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61144 | WasecaSun, LLC | IPP | WasecaSun | MN | 61142 | WASE3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61144 | WasecaSun, LLC | IPP | WasecaSun | MN | 61142 | WASE4 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 2 | 61144 | WasecaSun, LLC | IPP | WasecaSun | MN | 61142 | WASE5 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60571 | AEP Onsite Partners | IPP | Sherburne Community Solar | MN | 61672 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60831 | Argo Navis Community Solar | IPP | Argo Navis Community Solar | MN | 61183 | UACS1 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60922 | Belchertown Renewables, LLC | IPP | Belchertown Renewables Community Solar | MA | 61295 | 02675 | 4.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 61060 | Cypress Creek Renewables | IPP | Gaston Solar I - SC | SC | 61530 | GEN1 | 10.2 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60968 | Delphinus Community Solar | IPP | Delphinus Community Solar | MN | 61329 | QDCS1 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60968 | Delphinus Community Solar | IPP | Delphinus Community Solar | MN | 61329 | QDCS2 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 5310 | Doswell Ltd Partnership | IPP | Doswell Energy Center | VA | 52019 | GEN8 | 150.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 3 | 61228 | Dundas Solar Holdings LLC | IPP | Dundas Solar Holdings LLC CSG | MN | 61626 | DU | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60853 | ET CAP OR HOLDINGS LLC | IPP | OR Solar 8, LLC | OR | 61424 | PV1 | 10.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60904 | ETCAP NES CS MN 06 LLC | IPP | Armstrong Solar | MN | 61138 | 0000A | 3.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Cottage Grove CSG, LLC | MN | 61483 | CTGR1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Cottage Grove CSG, LLC | MN | 61483 | CTGR2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Cottage Grove CSG, LLC | MN | 61483 | CTGR3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Cottage Grove CSG, LLC | MN | 61483 | CTGR4 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Cottage Grove CSG, LLC | MN | 61483 | CTGR5 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Fox CSG, LLC | MN | 61484 | FOX1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Fox CSG, LLC | MN | 61484 | FOX2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Fox CSG, LLC | MN | 61484 | FOX3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Fox CSG, LLC | MN | 61484 | FOX4 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Fox CSG, LLC | MN | 61484 | FOX5 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | SunE Stolee CSG, LLC | MN | 61485 | STOL1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | SunE Stolee CSG, LLC | MN | 61485 | STOL2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | SunE Stolee CSG, LLC | MN | 61485 | STOL3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Wyoming 2 CSG, LLC | MN | 61486 | WY01 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Wyoming 2 CSG, LLC | MN | 61486 | WY02 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Wyoming 2 CSG, LLC | MN | 61486 | WY03 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Wyoming 2 CSG, LLC | MN | 61486 | WY04 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 58970 | Ecoplexus, Inc | IPP | Wyoming 2 CSG, LLC | MN | 61486 | WY05 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 6452 | Florida Power & Light Co | Electric Utility | Barefoot Bay Solar Energy Center | FL | 61051 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 6452 | Florida Power & Light Co | Electric Utility | Blue Cypress Solar Energy Center | FL | 61029 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 6452 | Florida Power & Light Co | Electric Utility | Hammock Solar | FL | 61024 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 6452 | Florida Power & Light Co | Electric Utility | Loggerhead Solar Energy Center | FL | 61052 | 1 | 74.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60556 | Fusion Solar Centre, L.L.C | IPP | Fusion Solar Center LLC | CT | 58876 | PV | 20.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 59633 | Great Bay Solar I LLC | IPP | Great Bay Solar 1 | MD | 59851 | GBS01 | 57.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 49893 | Invenergy Services LLC | IPP | Lackawanna Energy Center | PA | 60357 | GEN1 | 465.0 | Natural Gas Fired Combined Cycle | NG | CS |
| 2018 | 3 | 61323 | PowerFin ASL 1, LLC | IPP | PowerFin Kingsbery | TX | 61700 | PFPKB | 2.6 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 61069 | RE Gaskell West LLC | IPP | RE Gaskell West 1 LLC | CA | 61445 | PV1 | 20.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 16181 | Rochester Public Utilities | Electric Utility | Westside Energy Station | MN | 60564 | WES1 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 16181 | Rochester Public Utilities | Electric Utility | Westside Energy Station | MN | 60564 | WES2 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 16181 | Rochester Public Utilities | Electric Utility | Westside Energy Station | MN | 60564 | WES3 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 16181 | Rochester Public Utilities | Electric Utility | Westside Energy Station | MN | 60564 | WES4 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 16181 | Rochester Public Utilities | Electric Utility | Westside Energy Station | MN | 60564 | WES5 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 60520 | SoCore Energy LLC | IPP | Carrizozo Solar | NM | 61662 | PV1 | 3.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 40580 | Southern Minnesota Mun P Agny | Electric Utility | Owatonna Energy Station | MN | 60254 | UNIT1 | 9.7 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 40580 | Southern Minnesota Mun P Agny | Electric Utility | Owatonna Energy Station | MN | 60254 | UNIT2 | 9.7 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 40580 | Southern Minnesota Mun P Agny | Electric Utility | Owatonna Energy Station | MN | 60254 | UNIT3 | 9.7 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 40580 | Southern Minnesota Mun P Agny | Electric Utility | Owatonna Energy Station | MN | 60254 | UNIT4 | 9.7 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 60822 | Taurus Community Solar | IPP | Taurus Community Solar | MN | 61174 | ETCS3 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60822 | Taurus Community Solar | IPP | Taurus Community Solar | MN | 61174 | ETCS4 | 0.9 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60947 | Tesla Inc. | IPP | Intel - Ocotillo Campus Solar | AZ | 60822 | PV2 | 1.4 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60947 | Tesla Inc. | IPP | Onondaga County- Jamesville | NY | 60232 | PV1 | 2.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60947 | Tesla Inc. | IPP | Town of Rocky Hill | CT | 61541 | PV1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60947 | Tesla Inc. | IPP | Town of Rocky Hill | CT | 61541 | PV2 | 1.0 | Solar Photovoltaic | SUN | PV |

**Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 3 | 60947 | Tesla Inc. | IPP | Town of Rocky Hill | CT | 61541 | PV3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60947 | Tesla Inc. | IPP | US GSA - Sacramento | CA | 60846 | PV1 | 1.1 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 60923 | Theodore Drive Solar, LLC | IPP | Theodore Drive Community Solar | MA | 61296 | 02529 | 1.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 3 | 61397 | Town of Otis | Commercial | Town of Otis Wind Energy Project | MA | 61775 | OT196 | 1.5 | Onshore Wind Turbine | WND | WT |
| 2018 | 3 | 61229 | Waterville Solar Holdings LLC | IPP | Waterville Solar Holdings LLC | MN | 61627 | WA | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 221 | Alaska Village Elec Coop, Inc | Electric Utility | Hooper Bay | AK | 6319 | 3B | 0.4 | Petroleum Liquids | DFO | IC |
| 2018 | 4 | 221 | Alaska Village Elec Coop, Inc | Electric Utility | Pilot Station | AK | 57058 | 1 | 0.5 | Petroleum Liquids | DFO | IC |
| 2018 | 4 | 58889 | Dominion Cove Point LNG, LP | Commercial | Cove Point LNG Terminal | MD | 59073 | 5501 | 3.0 | All Other | OTH | OT |
| 2018 | 4 | 58889 | Dominion Cove Point LNG, LP | Commercial | Cove Point LNG Terminal | MD | 59073 | 5502 | 1.3 | All Other | OTH | OT |
| 2018 | 4 | 58889 | Dominion Cove Point LNG, LP | Commercial | Cove Point LNG Terminal | MD | 59073 | 5511 | 1.7 | All Other | OTH | OT |
| 2018 | 4 | 58889 | Dominion Cove Point LNG, LP | Commercial | Cove Point LNG Terminal | MD | 59073 | 5EG | 1.0 | Petroleum Liquids | DFO | IC |
| 2018 | 4 | 58889 | Dominion Cove Point LNG, LP | Commercial | Cove Point LNG Terminal | MD | 59073 | 5STA | 40.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 4 | 58889 | Dominion Cove Point LNG, LP | Commercial | Cove Point LNG Terminal | MD | 59073 | 5STB | 40.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 4 | 5310 | Doswell Ltd Partnership | IPP | Doswell Energy Center | VA | 52019 | GEN9 | 150.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 4 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | W S Lee | SC | 3264 | CT11 | 216.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | W S Lee | SC | 3264 | CT12 | 216.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | W S Lee | SC | 3264 | ST10 | 321.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 4 | 60905 | ETCAP NES CS MN 03 LLC | IPP | Marmas Solar CSG | MN | 61139 | 0000C | 5.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 60905 | ETCAP NES CS MN 03 LLC | IPP | Marmas Solar CSG | MN | 61139 | MARM2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 60905 | ETCAP NES CS MN 03 LLC | IPP | Marmas Solar CSG | MN | 61139 | MARM3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 60905 | ETCAP NES CS MN 03 LLC | IPP | Marmas Solar CSG | MN | 61139 | MARM4 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 60905 | ETCAP NES CS MN 03 LLC | IPP | Marmas Solar CSG | MN | 61139 | MARM5 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61124 | Great Valley Solar Portfolio Holdings, LLC | IPP | Great Valley Solar Portfolio Holdings, LLC | CA | 59940 | TQ8 | 200.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 9273 | Indianapolis Power & Light Co | Electric Utility | Eagle Valley (IN) | IN | 991 | GT1 | 207.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 9273 | Indianapolis Power & Light Co | Electric Utility | Eagle Valley (IN) | IN | 991 | GT2 | 207.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 9273 | Indianapolis Power & Light Co | Electric Utility | Eagle Valley (IN) | IN | 991 | STG1 | 230.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 4 | 61417 | Lavio Solar, LLC | IPP | Lavio Solar | CA | 61792 | 5002 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61017 | Lindstrom CSG 1, LLC | IPP | Lindstrom Solar CSG | MN | 61382 | LIND1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61017 | Lindstrom CSG 1, LLC | IPP | Lindstrom Solar CSG | MN | 61382 | LIND2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61017 | Lindstrom CSG 1, LLC | IPP | Lindstrom Solar CSG | MN | 61382 | LIND3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61102 | Minnesota Solar CSG 8, LLC | IPP | Carver Gladden CSG | MN | 61495 | 42254 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61102 | Minnesota Solar CSG 8, LLC | IPP | Carver Gladden CSG | MN | 61495 | 42255 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61102 | Minnesota Solar CSG 8, LLC | IPP | Carver Gladden CSG | MN | 61495 | 42256 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61156 | NMRD Data Center, LLC | IPP | Facebook 3 Solar Energy Center | NM | 61558 | FB3 | 10.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61169 | New Germany Solar I LLC | IPP | New Germany Community Solar Garden | MN | 61571 | 39062 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Black Dog | MN | 1904 | 6-1 | 215.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 4 | 40229 | Old Dominion Electric Coop | Electric Utility | Wildcat Point Generation Facility | MD | 59220 | CT1 | 310.3 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 40229 | Old Dominion Electric Coop | Electric Utility | Wildcat Point Generation Facility | MD | 59220 | CT2 | 310.3 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 40229 | Old Dominion Electric Coop | Electric Utility | Wildcat Point Generation Facility | MD | 59220 | ST1 | 493.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 4 | 61295 | Pinal Central Energy Center, LLC | IPP | Pinal Central Energy Center | AZ | 61678 | BA1 | 10.0 | Batteries | MWH | BA |
| 2018 | 4 | 61295 | Pinal Central Energy Center, LLC | IPP | Pinal Central Energy Center | AZ | 61678 | PCEC | 20.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 17164 | Sierra Pacific Industries Inc | Industrial | Sierra Pacific Sonora | CA | 54517 | GEN3 | 6.0 | Wood/Wood Waste Biomass | WDS | ST |
| 2018 | 4 | 57109 | St Joseph Energy Center LLC | IPP | St Joseph Energy Center | IN | 57794 | CT1 | 229.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 57109 | St Joseph Energy Center LLC | IPP | St Joseph Energy Center | IN | 57794 | CT2 | 229.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 57109 | St Joseph Energy Center LLC | IPP | St Joseph Energy Center | IN | 57794 | ST1 | 245.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 4 | 61418 | Stage Gulch Solar, LLC | IPP | Stage Gulch Solar | CA | 61791 | 5001 | 0.8 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61019 | SunE St. Cloud 1, LLC | IPP | St. Cloud Solar CSG | MN | 61384 | STCL1 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61019 | SunE St. Cloud 1, LLC | IPP | St. Cloud Solar CSG | MN | 61384 | STCL2 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61019 | SunE St. Cloud 1, LLC | IPP | St. Cloud Solar CSG | MN | 61384 | STCL3 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61019 | SunE St. Cloud 1, LLC | IPP | St. Cloud Solar CSG | MN | 61384 | STCL4 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61019 | SunE St. Cloud 1, LLC | IPP | St. Cloud Solar CSG | MN | 61384 | STCL5 | 1.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 18642 | Tennessee Valley Authority | Electric Utility | Allen Combined Cycle | TN | 3393 | CTG1 | 311.9 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 18642 | Tennessee Valley Authority | Electric Utility | Allen Combined Cycle | TN | 3393 | CTG2 | 311.9 | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 4 | 18642 | Tennessee Valley Authority | Electric Utility | Allen Combined Cycle | TN | 3393 | STG1 | 428.3 | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 4 | 60059 | ZGlobal Inc | IPP | Merced 1 PV | CA | 61420 | MRCD1 | 3.0 | Solar Photovoltaic | SUN | PV |
| 2018 | 4 | 61172 | Zumbro Solar LLC | IPP | Zumbro Community Solar Garden | MN | 61574 | 38674 | 1.0 | Solar Photovoltaic | SUN | PV |

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

**Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2018**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 1 | 221 | Alaska Village Elec Coop, Inc | Electric Utility | Brevig Mission | AK | 60260 | 3 | 0.5 | Petroleum Liquids | DFO | IC |
| 2018 | 1 | 9617 | JEA | Electric Utility | St Johns River Power Park | FL | 207 | 1 | 626.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 1 | 9617 | JEA | Electric Utility | St Johns River Power Park | FL | 207 | 2 | 626.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 1 | 55983 | Luminant Generation Company LLC | IPP | Monticello | TX | 6147 | 1 | 535.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 1 | 55983 | Luminant Generation Company LLC | IPP | Monticello | TX | 6147 | 2 | 535.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 1 | 55983 | Luminant Generation Company LLC | IPP | Monticello | TX | 6147 | 3 | 795.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 1 | 55983 | Luminant Generation Company LLC | IPP | Sandow No 4 | TX | 6648 | 4 | 600.0 | Conventional Steam Coal | LIG | ST |
| 2018 | 1 | 55983 | Luminant Generation Company LLC | IPP | Sandow No 5 | TX | 52071 | 5 | 600.0 | Conventional Steam Coal | LIG | ST |
| 2018 | 1 | 58247 | National Centers for Animal Health | Commercial | NCAH Central Utility Plant | IA | 58265 | S-7A | 1.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 1 | 5677 | Waste Energy Services Inc | Electric CHP | Waste Energy Services | MI | 50077 | CAT1 | 0.5 | Landfill Gas | LFG | IC |
| 2018 | 1 | 5677 | Waste Energy Services Inc | Electric CHP | Waste Energy Services | MI | 50077 | CAT2 | 0.3 | Landfill Gas | LFG | IC |
| 2018 | 1 | 5677 | Waste Energy Services Inc | Electric CHP | Waste Energy Services | MI | 50077 | CAT3 | 0.3 | Landfill Gas | LFG | IC |
| 2018 | 1 | 5677 | Waste Energy Services Inc | Electric CHP | Waste Energy Services | MI | 50077 | CAT4 | 0.3 | Landfill Gas | LFG | IC |
| 2018 | 2 | 55983 | Luminant Generation Company LLC | IPP | Big Brown | TX | 3497 | 1 | 606.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 2 | 55983 | Luminant Generation Company LLC | IPP | Big Brown | TX | 3497 | 2 | 602.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 2 | 15908 | NRG California South LP | IPP | Mandalay | CA | 345 | 03 | 130.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 2 | 15908 | NRG California South LP | IPP | Mandalay | CA | 345 | 1 | 215.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 2 | 15908 | NRG California South LP | IPP | Mandalay | CA | 345 | 2 | 215.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 2 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | Broadway (IN) | IN | 1011 | 1 | 50.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 2 | 57305 | Wright Patterson AFB | Commercial | Heat Plant 770 | OH | 57926 | HP | 0.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 2 | 57305 | Wright Patterson AFB | Commercial | Heat Plant 770 | OH | 57926 | LP | 0.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 3 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 1 | 1.0 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 2 | 1.0 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 3 | 1.0 | Petroleum Liquids | DFO | IC |
| 2018 | 3 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 4 | 1.0 | Petroleum Liquids | DFO | IC |
| 2018 | 3 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 5 | 1.2 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 6 | 1.2 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 3 | 12199 | Montana-Dakota Utilities Co | Electric Utility | Portable Generator 1 | ND | 59196 | IC1 | 2.0 | Petroleum Liquids | DFO | IC |
| 2018 | 3 | 17164 | Sierra Pacific Industries Inc | Industrial | Sierra Pacific Sonora | CA | 54517 | GEN2 | 6.0 | Wood/Wood Waste Biomass | WDS | ST |
| 2018 | 4 | 221 | Alaska Village Elec Coop, Inc | Electric Utility | Hooper Bay | AK | 6319 | 3A | 0.3 | Petroleum Liquids | DFO | IC |
| 2018 | 4 | 221 | Alaska Village Elec Coop, Inc | Electric Utility | Pilot Station | AK | 57058 | UNIT1 | 0.4 | Petroleum Liquids | DFO | IC |
| 2018 | 4 | 11460 | City of Macon - (MO) | Electric Utility | Macon | MO | 2141 | 3 | 4.6 | Petroleum Liquids | DFO | IC |
| 2018 | 4 | 20847 | Wisconsin Electric Power Co | Electric Utility | Pleasant Prairie | WI | 6170 | 1 | 594.0 | Conventional Steam Coal | RC | ST |
| 2018 | 4 | 20847 | Wisconsin Electric Power Co | Electric Utility | Pleasant Prairie | WI | 6170 | 2 | 594.0 | Conventional Steam Coal | RC | ST |

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 5 | 60571 | AEP Onsite Partners | IPP | Imboden Solar Garden | CO | 61753 | PV1 | 1.5 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.5 |
| 2018 | 5 | 60571 | AEP Onsite Partners | IPP | Imboden Solar Garden | CO | 61753 | PV2 | 1.5 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.5 |
| 2018 | 5 | 60571 | AEP Onsite Partners | IPP | Ohio Northern University Solar Site | OH | 60913 | PV2 | 1.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2018 | 5 | 60571 | AEP Onsite Partners | IPP | Quincy II Solar Garden | CO | 61752 | PV1 | 1.5 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.5 |
| 2018 | 5 | 61344 | Advanced Microgrid Solutions | IPP | HEBT Irvine 1 | CA | 61722 | IRV01 | 1.0 | Batteries | MWH | BA | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2018 | 5 | 61344 | Advanced Microgrid Solutions | IPP | HEBT Irvine 1 | CA | 61722 | IRV1W | 4.5 | Batteries | MWH | BA | (TS) Construction complete, but not yet in commercial operation | 4.5 |
| 2018 | 5 | 60831 | Argo Navis Community Solar | IPP | Argo Navis Community Solar | MN | 61183 | UACS2 | 0.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 0.9 |
| 2018 | 5 | 60831 | Argo Navis Community Solar | IPP | Argo Navis Community Solar | MN | 61183 | UACS3 | 0.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 0.9 |
| 2018 | 5 | 56267 | Bayonne Energy Center LLC | IPP | Bayonne Energy Center | NJ | 56964 | GT10 | 59.5 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 66.0 |
| 2018 | 5 | 56267 | Bayonne Energy Center LLC | IPP | Bayonne Energy Center | NJ | 56964 | GT9 | 59.5 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 66.0 |
| 2018 | 5 | 59777 | Buckthorn Westex, LLC | IPP | Buckthorn Solar 1 | TX | 60044 | BKTH1 | 202.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 202.0 |
| 2018 | 5 | 60655 | Bullock Road Solar 1, LLC | IPP | Bullock Road Solar 1 | MA | 61010 | BULLO | 3.9 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 3.9 |
| 2018 | 5 | 19002 | CPV Towantic, LLC | IPP | CPV Towantic Energy Center | CT | 56047 | CTG1 | 233.6 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 280.5 |
| 2018 | 5 | 19002 | CPV Towantic, LLC | IPP | CPV Towantic Energy Center | CT | 56047 | CTG2 | 233.6 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 280.5 |
| 2018 | 5 | 19002 | CPV Towantic, LLC | IPP | CPV Towantic Energy Center | CT | 56047 | STG | 277.8 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 280.5 |
| 2018 | 5 | 56204 | CPV Valley, LLC | IPP | CPV Valley Energy Center | NY | 56940 | CTG1 | 198.2 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 235.0 |
| 2018 | 5 | 56204 | CPV Valley, LLC | IPP | CPV Valley Energy Center | NY | 56940 | CTG2 | 198.2 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 235.0 |
| 2018 | 5 | 56204 | CPV Valley, LLC | IPP | CPV Valley Energy Center | NY | 56940 | STG | 308.7 | Natural Gas Fired Combined Cycle | NG | CA | (TS) Construction complete, but not yet in commercial operation | 300.0 |
| 2018 | 5 | 6175 | City of Falls City - (NE) | Electric Utility | Falls City | NE | 2237 | 9 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 9.3 |
| 2018 | 5 | 14203 | City of Osawatomie - (KS) | Electric Utility | Osawatomie Power Plant North Sub | KS | 60751 | CAT1 | 2.0 | Petroleum Liquids | DFO | IC | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 5 | 14203 | City of Osawatomie - (KS) | Electric Utility | Osawatomie Power Plant North Sub | KS | 60751 | CAT2 | 2.0 | Petroleum Liquids | DFO | IC | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 5 | 14203 | City of Osawatomie - (KS) | Electric Utility | Osawatomie Power Plant North Sub | KS | 60751 | CAT3 | 2.0 | Petroleum Liquids | DFO | IC | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 5 | 18947 | City of Tipton - (IA) | Electric Utility | Tipton | IA | 8106 | 7 | 2.0 | Petroleum Liquids | DFO | IC | (V) Under construction, more than 50 percent complete | 2.0 |
| 2018 | 5 | 60609 | Clean Focus Renewables, Inc. | IPP | BHE Pueblo 2 Community Solar Array | CO | 60801 | PUEB2 | 1.5 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.5 |
| 2018 | 5 | 60825 | Corvus Community Solar | IPP | Corvus Community Solar | MN | 61177 | GCCS1 | 0.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 0.9 |
| 2018 | 5 | 60825 | Corvus Community Solar | IPP | Corvus Community Solar | MN | 61177 | GCCS2 | 0.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 0.9 |
| 2018 | 5 | 60825 | Corvus Community Solar | IPP | Corvus Community Solar | MN | 61177 | GCCS3 | 0.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 0.9 |
| 2018 | 5 | 60825 | Corvus Community Solar | IPP | Corvus Community Solar | MN | 61177 | GCCS4 | 0.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 0.9 |
| 2018 | 5 | 60825 | Corvus Community Solar | IPP | Corvus Community Solar | MN | 61177 | GCCS5 | 0.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 0.9 |
| 2018 | 5 | 61442 | Dignity - Siena Campus | IPP | Dignity - Siena Campus | NV | 61825 | PV1 | 1.4 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.4 |
| 2018 | 5 | 59928 | Footprint Salem Harbor Development LP | IPP | Salem Harbor Station NGCC | MA | 60903 | 1 | 147.5 | Natural Gas Fired Combined Cycle | NG | CA | (TS) Construction complete, but not yet in commercial operation | 158.4 |
| 2018 | 5 | 59928 | Footprint Salem Harbor Development LP | IPP | Salem Harbor Station NGCC | MA | 60903 | 2 | 147.5 | Natural Gas Fired Combined Cycle | NG | CA | (TS) Construction complete, but not yet in commercial operation | 158.4 |
| 2018 | 5 | 59928 | Footprint Salem Harbor Development LP | IPP | Salem Harbor Station NGCC | MA | 60903 | 3 | 217.5 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 240.7 |
| 2018 | 5 | 59928 | Footprint Salem Harbor Development LP | IPP | Salem Harbor Station NGCC | MA | 60903 | 4 | 217.5 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 240.7 |
| 2018 | 5 | 61303 | Grimm CSG LLC | IPP | Grimm Community Solar | MN | 61689 | PV1 | 1.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 5 | 19547 | Hawaiian Electric Co Inc | Electric Utility | Schofield Generating Station | HI | 60328 | S1 | 8.4 | Other Waste Biomass | OBL | IC | (V) Under construction, more than 50 percent complete | 8.4 |
| 2018 | 5 | 19547 | Hawaiian Electric Co Inc | Electric Utility | Schofield Generating Station | HI | 60328 | S2 | 8.4 | Other Waste Biomass | OBL | IC | (V) Under construction, more than 50 percent complete | 8.4 |
| 2018 | 5 | 19547 | Hawaiian Electric Co Inc | Electric Utility | Schofield Generating Station | HI | 60328 | S3 | 8.4 | Other Waste Biomass | OBL | IC | (V) Under construction, more than 50 percent complete | 8.4 |
| 2018 | 5 | 19547 | Hawaiian Electric Co Inc | Electric Utility | Schofield Generating Station | HI | 60328 | S4 | 8.4 | Other Waste Biomass | OBL | IC | (V) Under construction, more than 50 percent complete | 8.4 |
| 2018 | 5 | 19547 | Hawaiian Electric Co Inc | Electric Utility | Schofield Generating Station | HI | 60328 | S5 | 8.4 | Other Waste Biomass | OBL | IC | (V) Under construction, more than 50 percent complete | 8.4 |
| 2018 | 5 | 19547 | Hawaiian Electric Co Inc | Electric Utility | Schofield Generating Station | HI | 60328 | S6 | 8.4 | Other Waste Biomass | OBL | IC | (V) Under construction, more than 50 percent complete | 8.4 |
| 2018 | 5 | 61109 | Huneke I CSG LLC | IPP | Huneke I CSG | MN | 61505 | HUNE1 | 1.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 5 | 61287 | Johnson I CSG LLC | IPP | Johnson 1 Community Solar | MN | 61686 | PV1 | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 5 | 61110 | Krause CSG LLC | IPP | Krause CSG | MN | 61506 | KRAUS | 1.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 5 | 60713 | Ku'ia Solar LLC | IPP | Ku'ia Solar | HI | 61101 | KUIA | 2.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 2.9 |
| 2018 | 5 | 61383 | MN Solar Community, LLC | IPP | Sherburne North Project | MN | 61762 | SHERB | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2018 | 5 | 61211 | Montgomery County Solar | Commercial | Montgomery County Solar | MD | 61608 | 1 | 1.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.9 |
| 2018 | 5 | 59675 | Moxie Freedom LLC | IPP | Moxie Freedom Generation Plant | PA | 59906 | GEN1 | 490.0 | Natural Gas Fired Combined Cycle | NG | CC | (U) Under construction, less than or equal to 50 percent complete | 529.0 |
| 2018 | 5 | 59675 | Moxie Freedom LLC | IPP | Moxie Freedom Generation Plant | PA | 59906 | GEN2 | 490.0 | Natural Gas Fired Combined Cycle | NG | CC | (U) Under construction, less than or equal to 50 percent complete | 529.0 |
| 2018 | 5 | 56990 | NJR Clean Energy Ventures Corporation | IPP | New Road Solar, LLC | NJ | 61599 | NEWRD | 10.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 10.0 |
| 2018 | 5 | 56990 | NJR Clean Energy Ventures Corporation | IPP | Old Bridge Solar Farm | NJ | 61600 | OLDBR | 8.8 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 8.8 |
| 2018 | 5 | 56990 | NJR Clean Energy Ventures Corporation | IPP | Raritan Solar - 53 Highway | NJ | 61601 | RARIT | 8.4 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 8.4 |
| 2018 | 5 | 59124 | NTE Ohio LLC | IPP | Middletown Energy Center | OH | 59326 | MEC1 | 257.0 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 310.2 |
| 2018 | 5 | 59124 | NTE Ohio LLC | IPP | Middletown Energy Center | OH | 59326 | MEC2 | 227.0 | Natural Gas Fired Combined Cycle | NG | CA | (TS) Construction complete, but not yet in commercial operation | 233.7 |
| 2018 | 5 | 61080 | North Smithfield Solar Power 1, LLC | IPP | North Smithfield Solar Power 1 | RI | 61461 | NSS01 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 5 | 60685 | Novel Energy Solutions | IPP | Novel - OYA of Mapleton | MN | 61060 | 0000I | 3.5 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 3.5 |
| 2018 | 5 | 60685 | Novel Energy Solutions | IPP | Novel OYA of Osakis | MN | 61059 | 0000G | 5.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 5.0 |
| 2018 | 5 | 60996 | OEE XXV LLC | Industrial | Valfilm Wind Project | OH | 61356 | W1 | 1.5 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 1.5 |
| 2018 | 5 | 60996 | OEE XXV LLC | Industrial | Valfilm Wind Project | OH | 61356 | W2 | 1.5 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 1.5 |
| 2018 | 5 | 61278 | OEE XXVI LLC | IPP | Whirlpool Corp-Greenville Wind Farm | OH | 61660 | WTG1 | 1.5 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 1.5 |
| 2018 | 5 | 61278 | OEE XXVI LLC | IPP | Whirlpool Corp-Greenville Wind Farm | OH | 61660 | WTG2 | 1.5 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 1.5 |
| 2018 | 5 | 61278 | OEE XXVI LLC | IPP | Whirlpool Corp-Greenville Wind Farm | OH | 61660 | WTG3 | 1.5 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 1.5 |
| 2018 | 5 | 61348 | PCS Energy, LLC | Industrial | Aerolease | CA | 61718 | APLEX | 1.1 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.5 |
| 2018 | 5 | 60443 | Rattlesnake Power, LLC | IPP | Rattlesnake Power, LLC | TX | 60743 | WT1 | 160.0 | Onshore Wind Turbine | WND | WT | (TS) Construction complete, but not yet in commercial operation | 160.0 |
| 2018 | 5 | 61114 | School Sisters CSG LLC | IPP | School Sisters CSG | MN | 61516 | SCHOO | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 5 | 60712 | South Maui Renewable Resources LLC | IPP | Kihei Solar Farm | HI | 61099 | KIHEI | 2.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 2.9 |
| 2018 | 5 | 60653 | Stafford St Solar 2, LLC | IPP | Stafford St Solar 2 | MA | 61017 | STAF2 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 5 | 61210 | Stenner Creek Solar LLC | Commercial | Stenner Creek Solar | CA | 61607 | CPOLY | 4.5 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 4.5 |
| 2018 | 5 | 60822 | Taurus Community Solar | IPP | Taurus Community Solar | MN | 61174 | ETCS1 | 0.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 0.9 |
| 2018 | 5 | 60822 | Taurus Community Solar | IPP | Taurus Community Solar | MN | 61174 | ETCS2 | 0.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 0.9 |
| 2018 | 5 | 60947 | Tesla Inc. | IPP | Time Warner Cable - Knowles | NY | 60904 | PV1 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 5 | 56927 | Wallingford Energy LLC | IPP | Wallingford Energy | CT | 55517 | CTG6 | 45.0 | Natural Gas Fired Combustion Turbine | NG | GT | (TS) Construction complete, but not yet in commercial operation | 50.0 |
| 2018 | 5 | 56927 | Wallingford Energy LLC | IPP | Wallingford Energy | CT | 55517 | CTG7 | 45.0 | Natural Gas Fired Combustion Turbine | NG | GT | (TS) Construction complete, but not yet in commercial operation | 50.0 |
| 2018 | 5 | 61366 | Woods Hill Solar, LLC | IPP | Woods Hill Solar | CT | 61736 | PV1 | 20.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 20.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | Anheuser-Busch Baldwinsville | NY | 61575 | BAL01 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | Call Farms 1 | NY | 61470 | CFM11 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | Call Farms 3 | NY | 61471 | CFM31 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | Columbia University - Johnson Farms | NY | 61576 | JF01 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | Columbia University - Minisink | NY | 61578 | MIN01 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | Lichtenthal | NY | 61469 | LIC01 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | St. Lawerence University - Sutton | NY | 61579 | SUT01 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61012 | AES Distributed Energy | IPP | Time Warner Cable Enterprises - Martino | NY | 61577 | MRT01 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 61103 | Adams Solar Center LLC | IPP | Adams Solar Center | OR | 61496 | ADAMS | 10.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 10.0 |
| 2018 | 6 | 60281 | Altus Power America Management, LLC | IPP | Big George PV | MA | 61429 | 12344 | 1.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 6 | 60824 | Antares Community Solar | IPP | Antares Community Solar | MN | 61176 | FACS1 | 0.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 0.9 |
| 2018 | 6 | 60824 | Antares Community Solar | IPP | Antares Community Solar | MN | 61176 | FACS2 | 0.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 0.9 |
| 2018 | 6 | 60824 | Antares Community Solar | IPP | Antares Community Solar | MN | 61176 | FACS3 | 0.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 0.9 |
| 2018 | 6 | 61369 | Aspenall Energies Delaware | Electric Utility | Kimball Wind, LLC | NE | 56106 | KIM01 | 30.0 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 30.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 6 | 1015 | Austin Energy | Electric Utility | Kingsberry Energy Storage System | TX | 61741 | KBESS | 1.5 | Batteries | MWH | BA | (V) Under construction, more than 50 percent complete | 1.5 |
| 2018 | 6 | 60899 | Bear Creek Solar Center, LLC | IPP | Bear Creek Solar Center | OR | 61281 | BCRSC | 10.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 10.0 |
| 2018 | 6 | 61410 | Broad Street Fuel Cell, LLC | IPP | Trinity College Fuel Cell | CT | 61786 | MB-22 | 1.4 | Other Natural Gas | NG | FC | (U) Under construction, less than or equal to 50 percent complete | 1.4 |
| 2018 | 6 | 60170 | Clean Energy Future-Lordstown, LLC | IPP | Clean Energy Future-Lordstown, LLC | OH | 60376 | CTG1 | 263.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 311.0 |
| 2018 | 6 | 60170 | Clean Energy Future-Lordstown, LLC | IPP | Clean Energy Future-Lordstown, LLC | OH | 60376 | CTG2 | 263.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 311.0 |
| 2018 | 6 | 60170 | Clean Energy Future-Lordstown, LLC | IPP | Clean Energy Future-Lordstown, LLC | OH | 60376 | STG1 | 324.0 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 340.0 |
| 2018 | 6 | 61060 | Cypress Creek Renewables | IPP | Antanavica Solar | MA | 61526 | GEN1 | 1.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 6 | 61060 | Cypress Creek Renewables | IPP | Mustang Solar | NC | 61533 | GEN1 | 5.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 5.0 |
| 2018 | 6 | 60370 | DG AMP Solar, LLC | IPP | DG AMP Solar Smyrna | DE | 61800 | AMPSM | 1.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.2 |
| 2018 | 6 | 61187 | DG Minnesota CSG, LLC | IPP | Big Lake Project | MN | 61817 | BIGLA | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2018 | 6 | 5199 | Devon Energy Production Co | Industrial | Beaver Creek Gas Plant | WY | 55278 | STG-1 | 0.9 | All Other | WH | ST | (U) Under construction, less than or equal to 50 percent complete | 0.9 |
| 2018 | 6 | 61435 | EGP Stillwater Solar PV II, LLC | IPP | EGP Stillwater Solar PV II, LLC | NV | 61809 | STWII | 20.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 20.0 |
| 2018 | 6 | 61104 | Elbe Solar Center LLC | IPP | Elbe Solar Center | OR | 61497 | ELBE | 10.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 10.0 |
| 2018 | 6 | 60844 | Flat Top Wind I, LLC | IPP | Flat Top Wind I | TX | 61212 | FTWI | 200.0 | Onshore Wind Turbine | WND | WT | (OT) Other | 200.0 |
| 2018 | 6 | 61304 | Foreman's Hill CSG LLC | IPP | Foreman's Hill Community Solar | MN | 61690 | FOREM | 5.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 5.0 |
| 2018 | 6 | 61070 | Foundation CA Fund IX Manager, LLC | IPP | Foundation California Training Facility | CA | 61442 | WTG1 | 1.8 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 1.8 |
| 2018 | 6 | 61070 | Foundation CA Fund IX Manager, LLC | IPP | Foundation Salinas Valley State Prison | CA | 61444 | WTG1 | 1.8 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 1.8 |
| 2018 | 6 | 60252 | Friendswood Energy Genco, LLC | IPP | Friendswood Energy | TX | 60468 | GT-1 | 117.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 121.5 |
| 2018 | 6 | 58880 | Gallegos Wind Farm LLC | IPP | Gallegos Wind Farm, Phase 1 | NM | 59047 | GEN 1 | 180.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 180.0 |
| 2018 | 6 | 60886 | Gray Hawk Solar, LLC | IPP | Gray Hawk Solar | AZ | 61272 | GH5 | 55.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 55.0 |
| 2018 | 6 | 61409 | Heyer CSG LLC | IPP | Heyer CSG | MN | 61793 | HEYER | 1.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 6 | 57389 | IKEA Property Inc | Commercial | IKEA Oak Creek Rooftop PV System | WI | 61816 | PV1 | 1.5 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.5 |
| 2018 | 6 | 49893 | Invenergy Services LLC | IPP | Bishop Hill III | IL | 61787 | BHIII | 119.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 119.0 |
| 2018 | 6 | 49893 | Invenergy Services LLC | IPP | Shoreham Solar Commons | NY | 60045 | GEN1 | 24.9 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 24.9 |
| 2018 | 6 | 61309 | Johnson II CSG LLC | IPP | Johnson II Community Solar | MN | 61695 | PV1 | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 6 | 61346 | Lisbon East | IPP | COU Solar I, LLC | NY | 61720 | LECOU | 1.5 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.5 |
| 2018 | 6 | 61345 | Lisbon West | IPP | CJ Solar I, LLC | NY | 61719 | LWCJ1 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 11161 | Loma Linda University | Commercial | Loma Linda University Cogen | CA | 10206 | GEN5 | 1.0 | Petroleum Liquids | DFO | IC | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 6 | 58822 | MC Power Companies Inc | IPP | El Dorado Springs Solar Farm | MO | 61566 | EDSF1 | 2.5 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 2.5 |
| 2018 | 6 | 58822 | MC Power Companies Inc | IPP | Farmington Solar Farm | MO | 61450 | FSF1 | 2.5 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.5 |
| 2018 | 6 | 58822 | MC Power Companies Inc | IPP | Independence II Solar Farm | MO | 61588 | 1 | 4.1 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 4.1 |
| 2018 | 6 | 58822 | MC Power Companies Inc | IPP | Independence II Solar Farm | MO | 61588 | 2 | 4.4 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 4.4 |
| 2018 | 6 | 60471 | Mt. Tom Solar, LLC | IPP | Mt. Tom Solar Project | MA | 60906 | BA1 | 3.1 | Batteries | MWH | BA | (V) Under construction, more than 50 percent complete | 3.1 |
| 2018 | 6 | 59123 | NTE Carolinas, LLC | IPP | Kings Mountain Energy Center | NC | 59325 | KMEC1 | 259.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 310.2 |
| 2018 | 6 | 59123 | NTE Carolinas, LLC | IPP | Kings Mountain Energy Center | NC | 59325 | KMEC2 | 227.0 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 233.7 |
| 2018 | 6 | 60635 | Northern Cardinal Solar LLC | IPP | Northern Cardinal Solar | NC | 60992 | NCARD | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 15147 | PSEG Fossil LLC | IPP | PSEG Sewaren Generating Station | NJ | 2411 | 701 | 321.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 430.0 |
| 2018 | 6 | 15147 | PSEG Fossil LLC | IPP | PSEG Sewaren Generating Station | NJ | 2411 | 702 | 219.0 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 287.0 |
| 2018 | 6 | 60100 | PSEG Keys Energy Center, LLC | IPP | Keys Energy Center | MD | 60302 | 10 | 327.0 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 359.0 |
| 2018 | 6 | 60100 | PSEG Keys Energy Center, LLC | IPP | Keys Energy Center | MD | 60302 | 11 | 214.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 235.0 |
| 2018 | 6 | 60100 | PSEG Keys Energy Center, LLC | IPP | Keys Energy Center | MD | 60302 | 12 | 214.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 235.0 |
| 2018 | 6 | 60162 | Panda Hummel Station LLC | IPP | Panda Hummel Station LLC | PA | 60368 | CTG1 | 226.3 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 244.8 |
| 2018 | 6 | 60162 | Panda Hummel Station LLC | IPP | Panda Hummel Station LLC | PA | 60368 | CTG2 | 226.3 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 244.8 |
| 2018 | 6 | 60162 | Panda Hummel Station LLC | IPP | Panda Hummel Station LLC | PA | 60368 | CTG3 | 226.3 | Natural Gas Fired Combined Cycle | NG | CT | (TS) Construction complete, but not yet in commercial operation | 244.8 |
| 2018 | 6 | 60162 | Panda Hummel Station LLC | IPP | Panda Hummel Station LLC | PA | 60368 | STG | 417.6 | Natural Gas Fired Combined Cycle | NG | CA | (TS) Construction complete, but not yet in commercial operation | 460.0 |
| 2018 | 6 | 61288 | Perennial Wind, LLC | IPP | Perennial Windfarm | NE | 61677 | T-1 | 2.3 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.3 |
| 2018 | 6 | 61288 | Perennial Wind, LLC | IPP | Perennial Windfarm | NE | 61677 | T-2 | 2.3 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.3 |
| 2018 | 6 | 61288 | Perennial Wind, LLC | IPP | Perennial Windfarm | NE | 61677 | T-3 | 2.3 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.3 |
| 2018 | 6 | 61298 | Pine Gate Renewables | IPP | Sadiebrook Solar, LLC | SC | 60719 | SADIE | 5.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 5.0 |
| 2018 | 6 | 61298 | Pine Gate Renewables | IPP | Soluga Farms IV | NC | 59934 | SFIV | 4.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 4.9 |
| 2018 | 6 | 61108 | RJC I CSG LLC | IPP | RJC I CSG | MN | 61504 | RCJ1 | 1.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 6 | 61285 | RJC II CSG LLC | IPP | RJC II Community Solar Garden | MN | 61670 | RJCII | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 6 | 60748 | Salisbury Solar, LLC | IPP | Salisbury Solar | NC | 61128 | 12349 | 5.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 5.0 |
| 2018 | 6 | 61284 | Scandia CSG LLC | IPP | Scandia Community Solar Garden | MN | 61669 | SCAND | 2.5 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 2.5 |
| 2018 | 6 | 61443 | Solar Star California XXXIX, LLC | IPP | RPUWD Scheuer Well Solar PV Project | CA | 61824 | RPU2 | 3.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 3.0 |
| 2018 | 6 | 60163 | Soltage LLC | IPP | Kelly Solar, LLC | NC | 61219 | KELLY | 5.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 5.0 |
| 2018 | 6 | 61376 | SunSelect 1 | Industrial | SunSelect1 | CA | 61754 | 1 | 2.0 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 4.0 |
| 2018 | 6 | 60495 | Sunpin Holdings, LLC | IPP | Colgreen North Shore Solar Farm | CA | 60825 | CNS1 | 74.8 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 74.8 |
| 2018 | 6 | 60947 | Tesla Inc. | IPP | Broome County | NY | 60507 | NORTH | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 60947 | Tesla Inc. | IPP | Broome County | NY | 60507 | SOUTH | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 6 | 60947 | Tesla Inc. | IPP | Estrella Mountain PV | AZ | 60230 | PV1 | 1.8 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.8 |
| 2018 | 6 | 60947 | Tesla Inc. | IPP | Lancaster SCE ReMAT | CA | 61081 | PV1 | 3.0 | Solar Photovoltaic | SUN | PV | (OT) Other | 3.0 |
| 2018 | 6 | 61123 | Upton County Solar 2 LLC | IPP | Castle Gap Solar | TX | 60123 | CGAP | 180.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 180.0 |
| 2018 | 6 | 61277 | Vista Energy Storage, LLC | IPP | Vista Energy Storage System | CA | 61661 | VISTA | 40.0 | Batteries | MWH | BA | (V) Under construction, more than 50 percent complete | 40.0 |
| 2018 | 6 | 61188 | West Texas A&M University | Commercial | UL Advanced Wind Turbine Test Facility | TX | 61589 | UT-1 | 3.4 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 3.4 |
| 2018 | 7 | 61256 | Betcher CSG LLC | IPP | Betcher Community Solar Garden | MN | 61671 | BETCH | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC1 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC10 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC11 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC12 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC2 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC3 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC4 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC5 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC6 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC7 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC8 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 5063 | City of Denton - (TX) | Electric Utility | Denton Energy Center | TX | 61643 | DEC9 | 18.8 | Natural Gas Internal Combustion Engine | NG | IC | (V) Under construction, more than 50 percent complete | 18.8 |
| 2018 | 7 | 58519 | Clean Energy Collective LLC | IPP | SCE&G Nimitz CSG | SC | 61433 | SCNM1 | 8.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 8.0 |
| 2018 | 7 | 58519 | Clean Energy Collective LLC | IPP | SCE&G Springfield CSG | SC | 61434 | SCSP1 | 6.1 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 6.1 |
| 2018 | 7 | 60370 | DG AMP Solar, LLC | IPP | DG AMP Solar Piqua Staunton | OH | 61805 | AMPPS | 1.8 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 1.8 |
| 2018 | 7 | 58970 | Ecoplexus, Inc | IPP | SunE Feely 1 CSG, LLC | MN | 61478 | FELY1 | 1.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2018 | 7 | 58970 | Ecoplexus, Inc | IPP | SunE Feely 1 CSG, LLC | MN | 61478 | FELY2 | 1.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2018 | 7 | 58970 | Ecoplexus, Inc | IPP | SunE Feely 1 CSG, LLC | MN | 61478 | FELY3 | 1.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2018 | 7 | 58970 | Ecoplexus, Inc | IPP | SunE Feely 1 CSG, LLC | MN | 61478 | FELY4 | 1.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2018 | 7 | 58970 | Ecoplexus, Inc | IPP | SunE Feely 1 CSG, LLC | MN | 61478 | FELY5 | 1.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2018 | 7 | 5701 | El Paso Electric Co | Electric Utility | Holloman Solar Facility | NM | 60301 | HPV1 | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2018 | 7 | 60849 | Green Beanworks C, LLC | IPP | Green Beanworks C PV | CA | 61215 | GBWXC | 3.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 3.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 7 | 60428 | Green City Recovery, LLC | IPP | Green City Recovery, LLC | KY | 60703 | 2 | 1.0 | Landfill Gas | LFG | IC | (L) Regulatory approvals pending. Not under construction | 1.0 |
| 2018 | 7 | 49893 | Invenergy Services LLC | IPP | Lackawanna Energy Center | PA | 60357 | GEN2 | 465.0 | Natural Gas Fired Combined Cycle | NG | CS | (V) Under construction, more than 50 percent complete | 555.0 |
| 2018 | 7 | 61421 | LeGore Bridge Solar Center, LLC | IPP | LeGore Bridge Solar Center | MD | 61796 | LGBSC | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2018 | 7 | 59010 | Rhubarb One LLC | IPP | Rhubarb One SC | SC | 59596 | PV1 | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2018 | 7 | 17650 | Southern Power Co | IPP | Cactus Flats Wind Energy Project | TX | 61001 | WT1 | 150.0 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 150.0 |
| 2018 | 7 | 60947 | Tesla Inc. | IPP | Oswego County - Fulton Solar | NY | 60818 | PV1 | 2.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 7 | 59098 | Trishe Wind Ohio LLC | IPP | Trishe Wind Ohio LLC | OH | 59296 | NWOH1 | 100.0 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 100.0 |
| 2018 | 7 | 59316 | Whitetail Solar LLC | IPP | Whitetail Solar | SC | 59569 | PV1 | 10.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 10.0 |
| 2018 | 8 | 61344 | Advanced Microgrid Solutions | IPP | HEBT Irvine 2 | CA | 61723 | IRV06 | 2.5 | Batteries | MWH | BA | (TS) Construction complete, but not yet in commercial operation | 2.5 |
| 2018 | 8 | 60292 | Advanced Solar Power Holdings, Inc | IPP | Two Mile Desert Project | NC | 60510 | PV1 | 16.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 16.2 |
| 2018 | 8 | 60248 | Agilon Energy LLC | IPP | Victoria City Power LLC | TX | 61241 | VC-1 | 43.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 50.0 |
| 2018 | 8 | 60248 | Agilon Energy LLC | IPP | Victoria City Power LLC | TX | 61241 | VC-2 | 43.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 50.0 |
| 2018 | 8 | 60248 | Agilon Energy LLC | IPP | Victoria Port Power LLC | TX | 61242 | VP-1 | 50.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 50.0 |
| 2018 | 8 | 60248 | Agilon Energy LLC | IPP | Victoria Port Power LLC | TX | 61242 | VP-2 | 50.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 50.0 |
| 2018 | 8 | 59474 | BQ Energy LLC | IPP | Annapolis Solar Park, LLC | MD | 60681 | ASP12 | 12.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 12.0 |
| 2018 | 8 | 59474 | BQ Energy LLC | IPP | Kings Park Solar I | NY | 59880 | KIPS1 | 2.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 2.0 |
| 2018 | 8 | 59474 | BQ Energy LLC | IPP | Kings Park Solar II | NY | 59881 | KIPS2 | 2.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 2.0 |
| 2018 | 8 | 60533 | Carl Friedrich Gauss Solar LLC | IPP | Carl Friedrich Gauss Solar | NC | 60882 | GAUSS | 5.0 | Solar Photovoltaic | SUN | PV | (TS) Construction complete, but not yet in commercial operation | 5.0 |
| 2018 | 8 | 61060 | Cypress Creek Renewables | IPP | West Moore Solar | TX | 61624 | GEN1 | 5.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 5.0 |
| 2018 | 8 | 61060 | Cypress Creek Renewables | IPP | West Moore Solar II | TX | 61625 | GEN1 | 5.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 5.0 |
| 2018 | 8 | 58970 | Ecoplexus, Inc | IPP | Folsom SP and CSP Sacramento | CA | 61698 | FOLSM | 1.3 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.3 |
| 2018 | 8 | 58970 | Ecoplexus, Inc | IPP | Manning PV 1 | NC | 59520 | MANN | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 8 | 60147 | Enerparc Solar Development, LLC | IPP | Gastonia Solar Center | NC | 60359 | 60916 | 4.3 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 4.3 |
| 2018 | 8 | 57484 | Foundation CA Fund V Manager, LLC | IPP | Foundation NWNA | CA | 58114 | WTG3 | 1.9 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 1.9 |
| 2018 | 8 | 60399 | GASNA 6P, LLC | IPP | San Joaquin Solar | CA | 60678 | SJ1A | 20.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 20.0 |
| 2018 | 8 | 60399 | GASNA 6P, LLC | IPP | San Joaquin Solar | CA | 60678 | SJ1B | 1.5 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.5 |
| 2018 | 8 | 60850 | Green Beanworks D, LLC | IPP | Green Beanworks D PV | CA | 61216 | GBWXD | 3.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 3.0 |
| 2018 | 8 | 11208 | Los Angeles Department of Water & Power | Electric Utility | Beacon BESS 1 | CA | 61431 | BCNB1 | 20.0 | Batteries | MWH | BA | (V) Under construction, more than 50 percent complete | 20.0 |
| 2018 | 8 | 61209 | NC 102 Project LLC | IPP | NC 102 Project LLC | NC | 61610 | NC102 | 74.8 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 74.8 |
| 2018 | 8 | 16191 | Robbins Lumber Inc | Industrial | Robbins Lumber | ME | 50230 | WEG | 8.5 | Wood/Wood Waste Biomass | WDS | ST | (V) Under construction, more than 50 percent complete | 10.0 |
| 2018 | 8 | 60403 | TRS Fuel Cell, LLC | Electric CHP | TRS Fuel Cell | CT | 60683 | MMH1 | 3.7 | Other Natural Gas | NG | FC | (TS) Construction complete, but not yet in commercial operation | 3.7 |
| 2018 | 8 | 59056 | Tri Global Energy, LLC | IPP | Blue Cloud Renewable Energy Project, LLC | TX | 60270 | WT1 | 350.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 350.0 |
| 2018 | 9 | 60112 | 97WI 8ME, LLC | IPP | Midway Solar Farm III | CA | 60315 | MSF3 | 20.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 20.0 |
| 2018 | 9 | 60876 | Antelope Expansion 2, LLC | IPP | Antelope Expansion 2 | CA | 61264 | ANTX2 | 105.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 105.0 |
| 2018 | 9 | 61326 | Aquila Community Solar Gardens, LLC | IPP | Aquila Community Solar | MN | 61704 | AQUI | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 9 | 58261 | Arkwright Summit Wind Farm LLC | IPP | Arkwright Summit Wind Farm LLC | NY | 61673 | WT | 78.4 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 79.8 |
| 2018 | 9 | 60366 | BRE NC Solar 2, LLC | IPP | BRE NC Solar 2 | NC | 60626 | BEAM2 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 9 | 60367 | BRE NC Solar 3, LLC | IPP | BRE NC Solar 3 | NC | 60627 | BEAM3 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 9 | 60368 | BRE NC Solar 4, LLC | IPP | BRE NC Solar 4 | NC | 60628 | BEAM4 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 9 | 61329 | Canopus Community Solar Garden, LLC | IPP | Canopus Community Solar | MN | 61707 | CANO | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 9 | 61260 | Capricornus Community Solar Garden, LLC | IPP | Capricornus Community Solar Garden | MN | 61651 | CAPR | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 9 | 61337 | Cassiopeia Community Solar Garden, LLC | IPP | Cassiopeia Community Solar | MN | 61711 | CASS | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 9 | 3265 | Cleco Power LLC | Electric Utility | St. Mary Clean Energy Center | LA | 60610 | 1 | 47.9 | All Other | WH | OT | (V) Under construction, more than 50 percent complete | 58.2 |
| 2018 | 9 | 56769 | Consolidated Edison Development Inc. | IPP | Aurora County Wind | SD | 61745 | ACSD | 20.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2018 | 9 | 56769 | Consolidated Edison Development Inc. | IPP | Brule County Wind | SD | 61746 | BCSD | 20.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2018 | 9 | 6455 | Duke Energy Florida, LLC | Electric Utility | Citrus County Combined Cycle Plant | FL | 60138 | 1GTA | 251.7 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 310.3 |
| 2018 | 9 | 6455 | Duke Energy Florida, LLC | Electric Utility | Citrus County Combined Cycle Plant | FL | 60138 | 1GTB | 251.7 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 310.3 |
| 2018 | 9 | 6455 | Duke Energy Florida, LLC | Electric Utility | Citrus County Combined Cycle Plant | FL | 60138 | CC1ST | 316.7 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 364.7 |
| 2018 | 9 | 59735 | Enerparc CA2, LLC | IPP | Cloverdale Solar Center | CA | 60813 | ECA02 | 1.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 1.0 |
| 2018 | 9 | 60534 | Halifax Solar LLC | IPP | Halifax Solar LLC | NC | 60884 | HALFX | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2018 | 9 | 60356 | Hexagon Energy | IPP | Bay Branch Solar | NC | 60601 | BBSOL | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 9 | 49893 | Invenergy Services LLC | IPP | Lackawanna Energy Center | PA | 60357 | GEN3 | 465.0 | Natural Gas Fired Combined Cycle | NG | CS | (V) Under construction, more than 50 percent complete | 555.0 |
| 2018 | 9 | 61373 | MERIT SI | IPP | Rotor Clip | NJ | 61751 | RCLIP | 2.7 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 2.8 |
| 2018 | 9 | 12199 | Montana-Dakota Utilities Co | Electric Utility | Thunder Spirit Wind, LLC | ND | 58965 | 2 | 48.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 48.0 |
| 2018 | 9 | 14624 | PUD No 2 of Grant County | Electric Utility | Wanapum | WA | 3888 | 8A | 122.0 | Conventional Hydroelectric | WAT | HY | (V) Under construction, more than 50 percent complete | 122.0 |
| 2018 | 9 | 60910 | Sun Farm V, LLC | IPP | Sun Farm V, LLC | NC | 61287 | SF5PV | 4.8 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2018 | 9 | 18454 | Tampa Electric Co | Electric Utility | Balm Solar | FL | 61654 | PV1 | 74.4 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 74.4 |
| 2018 | 9 | 18454 | Tampa Electric Co | Electric Utility | Payne Creek Solar | FL | 61665 | GEN1 | 70.3 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 70.3 |
| 2018 | 9 | 60410 | Tanager Holdings, LLC | IPP | Tanager Holdings | NC | 60691 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 10 | 61259 | Altair Community Solar Garden, LLC | IPP | Altair Community Solar Garden | MN | 61645 | ALTA | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 10 | 61325 | Aquarius Community Solar Gardens, LLC | IPP | Aquarius Community Solar | MN | 61710 | AQUA | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 61327 | Arcturus Community Solar Garden, LLC | IPP | Arcturus Community Solar | MN | 61705 | ARCT | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 61328 | Auriga Community Solar Garden, LLC | IPP | Auriga Community Solar | MN | 61706 | AURI | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 61230 | CD Arevon USA, Inc. | IPP | Mount Signal Solar Farm 3 | CA | 61202 | MTSG3 | 252.3 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 252.3 |
| 2018 | 10 | 58847 | Carlsbad Energy Center | IPP | Carlsbad Energy Center | CA | 59002 | CEC 6 | 105.5 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 105.5 |
| 2018 | 10 | 58847 | Carlsbad Energy Center | IPP | Carlsbad Energy Center | CA | 59002 | CEC 7 | 105.5 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 105.5 |
| 2018 | 10 | 58847 | Carlsbad Energy Center | IPP | Carlsbad Energy Center | CA | 59002 | CEC 8 | 105.5 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 105.5 |
| 2018 | 10 | 58847 | Carlsbad Energy Center | IPP | Carlsbad Energy Center | CA | 59002 | CEC 9 | 105.5 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 105.5 |
| 2018 | 10 | 58847 | Carlsbad Energy Center | IPP | Carlsbad Energy Center | CA | 59002 | CEC10 | 105.5 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 105.5 |
| 2018 | 10 | 3037 | City of Carlyle - (IL) | Electric Utility | Carlyle | IL | 936 | 11 | 2.8 | Petroleum Liquids | DFO | IC | (OT) Other | 2.8 |
| 2018 | 10 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 7 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 4.4 |
| 2018 | 10 | 16873 | City of Sebewaing - (MI) | Electric Utility | Pine Street | MI | 7806 | 8 | 3.3 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 3.3 |
| 2018 | 10 | 18445 | City of Tallahassee - (FL) | Electric Utility | Sub 12 | FL | 61080 | IC1 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 9.3 |
| 2018 | 10 | 18445 | City of Tallahassee - (FL) | Electric Utility | Sub 12 | FL | 61080 | IC2 | 9.3 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 9.3 |
| 2018 | 10 | 61338 | Crux Community Solar Gardens, LLC | IPP | Crux Community Solar | MN | 61712 | CRUX | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 61060 | Cypress Creek Renewables | IPP | Buckleberry Solar | NC | 61693 | GEN | 52.1 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 52.1 |
| 2018 | 10 | 61060 | Cypress Creek Renewables | IPP | Chisum | TX | 61810 | GEN1 | 10.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 10.0 |
| 2018 | 10 | 61339 | Deneb Community Solar Garden, LLC | IPP | Deneb Community Solar | MN | 61715 | DENE | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 57202 | E&E Enterprises LLC | IPP | Allendorf | IA | 56215 | ET | 1.8 | Onshore Wind Turbine | WND | WT | (TS) Construction complete, but not yet in commercial operation | 2.0 |
| 2018 | 10 | 61420 | ENGIE Storage Services NA LLC | Commercial | Pacific Union College BESS | CA | 61795 | 12649 | 1.0 | Batteries | MWH | BA | (P) Planned for installation, but regulatory approvals not initiated | 1.0 |
| 2018 | 10 | 60496 | Enerparc Inc. | IPP | Neenach Solar Center | CA | 60826 | ECA03 | 1.5 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 1.5 |
| 2018 | 10 | 61054 | Fluvanna Wind Energy 2 LLC | IPP | Gopher Creek Wind Farm | TX | 61417 | GCWF | 158.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 158.0 |
| 2018 | 10 | 7019 | Gay & Robinson Inc | Industrial | Gay Robinson | HI | 50333 | HYD3 | 6.5 | Conventional Hydroelectric | WAT | HY | (V) Under construction, more than 50 percent complete | 6.5 |
| 2018 | 10 | 60878 | Green Beanworks B, LLC | IPP | Green Beanworks B PV | CA | 61339 | GBWXB | 3.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 3.0 |
| 2018 | 10 | 61340 | Hydra Community Solar, LLC | IPP | Hydra Community Solar | MN | 61714 | HYDR | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 61289 | Kaus Community Solar Garden, LLC | IPP | Kaus Community Solar | MN | 61716 | KAUS | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 61342 | Leo Community Solar, LLC | IPP | Leo Community Solar | MN | 61713 | LEO | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 61334 | Libra Community Solar Garden, LLC | IPP | Libra Community Solar | MN | 61709 | LIBR | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 10 | 61101 | Minnesota Solar CSG 1, LLC | IPP | Wright Cuddyer | MN | 61494 | 41327 | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 10 | 61101 | Minnesota Solar CSG 1, LLC | IPP | Wright Cuddyer | MN | 61494 | 41328 | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 10 | 61101 | Minnesota Solar CSG 1, LLC | IPP | Wright Cuddyer | MN | 61494 | 41329 | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 10 | 61101 | Minnesota Solar CSG 1, LLC | IPP | Wright Cuddyer | MN | 61494 | 41330 | 1.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 1.0 |
| 2018 | 10 | 61353 | Philadelphia Authority for Industrial Development | IPP | Navy Yard Peaker Station | PA | 61737 | GEN4 | 2.0 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 2.0 |
| 2018 | 10 | 15466 | Public Service Co of Colorado | Electric Utility | Rush Creek Wind | CO | 60619 | GEN1 | 576.0 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 600.0 |
| 2018 | 10 | 61333 | Sagitta Community Solar Garden, LLC | IPP | Sagitta Community Solar | MN | 61708 | SAGI | 1.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 10 | 60193 | Tamworth Holdings, LLC | IPP | Tamworth Holdings | NC | 60394 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 10 | 59598 | Tooele Army Depot | IPP | Tooele Army Depot | UT | 59817 | PV1 | 1.5 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 1.5 |
| 2018 | 11 | 60691 | AES LAWAI SOLAR, LLC | IPP | AES LAWAI SOLAR | HI | 61068 | LAWA1 | 20.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 20.0 |
| 2018 | 11 | 60691 | AES LAWAI SOLAR, LLC | IPP | AES LAWAI SOLAR | HI | 61068 | LAWA2 | 20.0 | Batteries | MWH | BA | (T) Regulatory approvals received. Not under construction | 20.0 |
| 2018 | 11 | 60476 | Bluebell Solar, LLC | IPP | Bluebell Solar | TX | 60789 | UNIT1 | 30.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 30.0 |
| 2018 | 11 | 56608 | Calpine Mid-Merit LLC | IPP | York Energy Center | PA | 55524 | CTG5 | 216.3 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 234.9 |
| 2018 | 11 | 56608 | Calpine Mid-Merit LLC | IPP | York Energy Center | PA | 55524 | CTG6 | 216.3 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 234.9 |
| 2018 | 11 | 56608 | Calpine Mid-Merit LLC | IPP | York Energy Center | PA | 55524 | STG2 | 395.1 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 419.6 |
| 2018 | 11 | 60656 | Chestnut Solar LLC | IPP | Chestnut Solar | NC | 61011 | PV1 | 74.9 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 74.9 |
| 2018 | 11 | 58840 | Copenhagen Wind Farm, LLC | IPP | Copenhagen Wind Farm | NY | 58979 | CPHGN | 79.9 | Onshore Wind Turbine | WND | WT | (V) Under construction, more than 50 percent complete | 79.9 |
| 2018 | 11 | 61070 | Foundation CA Fund IX Manager, LLC | IPP | Foundation Mann Packing | CA | 61443 | WTG1 | 1.8 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 1.8 |
| 2018 | 11 | 9234 | Indiana Municipal Power Agency | Electric Utility | Rensselaer Solar Site 2 | IN | 61799 | SREN2 | 4.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 4.0 |
| 2018 | 11 | 9234 | Indiana Municipal Power Agency | Electric Utility | Richmond Solar Site 2 | IN | 61729 | SRIC2 | 7.5 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 7.5 |
| 2018 | 11 | 58849 | Mariah del Este LLC | IPP | Mariah East | TX | 59006 | MARN | 152.5 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 152.5 |
| 2018 | 11 | 58489 | OCI Solar Power | IPP | Ivory Solar | TX | 61697 | IVORY | 50.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2018 | 11 | 15248 | Portland General Electric Co | Electric Utility | Timothy Lake Powerhouse | OR | 60868 | 1 | 1.2 | Conventional Hydroelectric | WAT | HY | (T) Regulatory approvals received. Not under construction | 1.2 |
| 2018 | 11 | 60217 | San Bernardino Valley Mun. Water Dist. | Electric Utility | Waterman Turnout Hydroelectric | CA | 60466 | WTHF | 1.0 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 1.0 |
| 2018 | 11 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | Volkman Road Solar Array | IN | 61334 | VRSA1 | 2.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 2.0 |
| 2018 | 11 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | Volkman Road Solar Array | IN | 61334 | VRSA2 | 1.0 | Batteries | MWH | BA | (T) Regulatory approvals received. Not under construction | 1.0 |
| 2018 | 11 | 2770 | Terra-Gen Operating Co LLC | IPP | Voyager Wind II | CA | 61582 | VYGR2 | 128.7 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 128.7 |
| 2018 | 11 | 2770 | Terra-Gen Operating Co LLC | IPP | Voyager Wind III | CA | 61583 | VYGR3 | 43.2 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 43.2 |
| 2018 | 11 | 2770 | Terra-Gen Operating Co LLC | IPP | Voyager Wind IV | CA | 61584 | VYGR4 | 21.6 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 21.6 |
| 2018 | 12 | 60776 | Aksamit Resource Management | IPP | Milligan III Wind Farm | NE | 61159 | M3001 | 73.4 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 73.4 |
| 2018 | 12 | 60526 | Alternative Power Development Northwest, LLC | IPP | Carter Solar One, LLC | ID | 60896 | CRTON | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2018 | 12 | 60526 | Alternative Power Development Northwest, LLC | IPP | Jackpot Solar East, LLC | ID | 60899 | JPTEA | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2018 | 12 | 60526 | Alternative Power Development Northwest, LLC | IPP | Jackpot Solar North, LLC | ID | 60897 | JPTNO | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2018 | 12 | 60526 | Alternative Power Development Northwest, LLC | IPP | Jackpot Solar South, LLC | ID | 60898 | JPTSO | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2018 | 12 | 60526 | Alternative Power Development Northwest, LLC | IPP | Jackpot Solar West, LLC | ID | 60900 | JPTWE | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2018 | 12 | 803 | Arizona Public Service Co | Electric Utility | Ocotillo | AZ | 116 | GT6 | 104.7 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 161.9 |
| 2018 | 12 | 57003 | Arlington Valley Solar Energy LLC | IPP | Arlington Valley Solar Energy I | AZ | 57679 | AVSE1 | 125.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 127.0 |
| 2018 | 12 | 15399 | Avangrid Renewables LLC | IPP | La Joya NM | NM | 61044 | WT1 | 166.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 166.0 |
| 2018 | 12 | 15399 | Avangrid Renewables LLC | IPP | WyEast Solar | OR | 61345 | PV1 | 20.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 20.0 |
| 2018 | 12 | 59359 | BHE Renewables, LLC | IPP | Walnut Ridge Wind Farm | IL | 58694 | 1 | 212.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 212.0 |
| 2018 | 12 | 60750 | Bear Poplar Solar, LLC | IPP | Bear Poplar Solar | NC | 61130 | 12344 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 61006 | Bearkat TE Partnership LLC | IPP | Bearkat | TX | 59972 | BRKA2 | 103.4 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 103.4 |
| 2018 | 12 | 61230 | CD Arevon USA, Inc. | IPP | CA Flats Solar 150, LLC | CA | 60034 | GEN01 | 150.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 150.0 |
| 2018 | 12 | 60096 | Calvert Energy LLC | IPP | Pine Valley Solar Farm, LLC | NC | 60298 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 59365 | Capital Power Corporation | IPP | New Frontier Wind | ND | 59903 | GEN | 100.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 100.0 |
| 2018 | 12 | 58508 | Carolina Solar Energy II LLC | IPP | Tides Lane Farm | NC | 60429 | PV1 | 3.7 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 3.7 |
| 2018 | 12 | 56769 | Consolidated Edison Development Inc. | IPP | Blackwell Solar Park | CA | 59524 | FRBSP | 20.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 20.0 |
| 2018 | 12 | 56769 | Consolidated Edison Development Inc. | IPP | Burt County Wind | NE | 61511 | BCNE | 75.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 75.0 |
| 2018 | 12 | 56769 | Consolidated Edison Development Inc. | IPP | Wistaria Ranch Solar | CA | 61750 | WICA | 100.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 106.7 |
| 2018 | 12 | 61419 | Constellation Solar MC, LLC | IPP | Gateway Solar | MD | 61794 | GTWYN | 5.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 5.0 |
| 2018 | 12 | 61419 | Constellation Solar MC, LLC | IPP | Gateway Solar | MD | 61794 | GTWYS | 2.6 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 2.6 |
| 2018 | 12 | 58695 | Coronal Development Services | IPP | Latitude Solar Center | TN | 61412 | LATSC | 15.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 15.0 |
| 2018 | 12 | 61060 | Cypress Creek Renewables | IPP | Brantley Solar | NC | 60623 | PV1 | 50.2 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 50.2 |
| 2018 | 12 | 61060 | Cypress Creek Renewables | IPP | Fox Creek Solar | NC | 60624 | PV1 | 50.2 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 50.2 |
| 2018 | 12 | 60370 | DG AMP Solar, LLC | IPP | DG AMP Solar Brewster | OH | 61818 | AMPBR | 1.9 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 1.9 |
| 2018 | 12 | 5109 | DTE Electric Company | Electric Utility | Pine River Wind Park | MI | 61106 | 1 | 161.3 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 161.3 |
| 2018 | 12 | 6455 | Duke Energy Florida, LLC | Electric Utility | Citrus County Combined Cycle Plant | FL | 60138 | 2GTA | 251.7 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 310.3 |
| 2018 | 12 | 6455 | Duke Energy Florida, LLC | Electric Utility | Citrus County Combined Cycle Plant | FL | 60138 | 2GTB | 251.7 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 310.3 |
| 2018 | 12 | 6455 | Duke Energy Florida, LLC | Electric Utility | Citrus County Combined Cycle Plant | FL | 60138 | CC2ST | 316.7 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 364.7 |
| 2018 | 12 | 6455 | Duke Energy Florida, LLC | Electric Utility | Hamilton Solar Power Plant | FL | 61807 | PV1 | 74.9 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 74.9 |
| 2018 | 12 | 56215 | E ON Climate Renewables N America LLC | IPP | Stella Wind Farm | TX | 59063 | WT1 | 201.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 201.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | Boykin PV1 | NC | 59996 | BOYK1 | 17.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 17.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | E Nash PV1 | NC | 60002 | NASH1 | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | Everett PV1 | NC | 60997 | EVRT1 | 10.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 10.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | Grandy PV 1 | NC | 59518 | GRAND | 20.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 20.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | High Shoals PV1 | NC | 59997 | HISHO | 16.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 16.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | Round Hill PV1 | NC | 59998 | RNDHL | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | Underwood PV2 | NC | 60998 | UNWD2 | 16.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 16.0 |
| 2018 | 12 | 58970 | Ecoplexus, Inc | IPP | Willoughby PV1 | NC | 60003 | WILL1 | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2018 | 12 | 58135 | Ecos Energy LLC | IPP | Apple Hill Solar | VT | 61037 | APPL | 2.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 2.0 |
| 2018 | 12 | 58135 | Ecos Energy LLC | IPP | Lake Perris Solar | CA | 60973 | LKPR | 1.5 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 1.5 |
| 2018 | 12 | 58135 | Ecos Energy LLC | IPP | San Jacinto Solar | CA | 60972 | SJAC | 1.5 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 1.5 |
| 2018 | 12 | 58135 | Ecos Energy LLC | IPP | Weybridge 1 Solar | VT | 61038 | WEY1 | 3.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 3.0 |
| 2018 | 12 | 61404 | Edenton Solar | IPP | Edenton Solar | NC | 61781 | EDE | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2018 | 12 | 61413 | Enel Green Power Diamond Vista Wind Project, LLC | IPP | Diamond Vista Wind Project, LLC | KS | 61789 | DV | 299.3 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 299.3 |
| 2018 | 12 | 60147 | Enerparc Solar Development, LLC | IPP | Hilly Branch | NC | 60358 | 28941 | 2.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 2.0 |
| 2018 | 12 | 60147 | Enerparc Solar Development, LLC | IPP | Pike Road Solar | NC | 60360 | 51116 | 5.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 5.0 |
| 2018 | 12 | 56201 | Engie North America | IPP | Live Oak Wind Project | TX | 61782 | WTGS | 199.5 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 199.5 |
| 2018 | 12 | 6035 | Exelon Power | IPP | Exelon West Medway II LLC | MA | 59882 | 4 | 97.4 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 100.0 |
| 2018 | 12 | 6035 | Exelon Power | IPP | Exelon West Medway II LLC | MA | 59882 | 5 | 97.4 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 100.0 |
| 2018 | 12 | 59745 | First Solar Asset Management | IPP | North Rosamond Solar LLC | CA | 59879 | GEN01 | 150.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 150.0 |
| 2018 | 12 | 59745 | First Solar Asset Management | IPP | Willow Spring Solar, LLC | CA | 60324 | GEN01 | 100.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 100.0 |
| 2018 | 12 | 58959 | Freeport LNG Development L.P | Industrial | Freeport LP Pretreatment Facility | TX | 59145 | 65GTG | 77.5 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 97.0 |
| 2018 | 12 | 58146 | Gaelectric LLC | IPP | Jawbone Wind Project | MT | 58175 | JWPI | 240.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 240.0 |
| 2018 | 12 | 60747 | Gamble Solar, LLC | IPP | Gamble Solar | NC | 61127 | 12348 | 3.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2018 | 12 | 60222 | Haida Energy, Inc. | Electric Utility | Hiilangaay Hydro | AK | 59037 | GEN 1 | 5.0 | Conventional Hydroelectric | WAT | HY | (U) Under construction, less than or equal to 50 percent complete | 5.0 |
| 2018 | 12 | 61214 | Heartland Divide Wind Project, LLC | IPP | Heartland Divide Wind Project, LLC | IA | 61609 | 1 | 103.5 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 103.5 |
| 2018 | 12 | 59462 | Heelstone Energy Holdings, LLC | IPP | Innovative Solar 54 | NC | 59669 | IS054 | 50.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 50.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 12 | 59462 | Heelstone Energy Holdings, LLC | IPP | Innovative Solar 67 | NC | 59678 | IS067 | 33.3 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 33.3 |
| 2018 | 12 | 61001 | Hu Honua Bioenergy, LLC | IPP | Hu Honua Bioenergy Facility | HI | 61364 | HHB | 32.0 | Other Waste Biomass | OBS | ST | (U) Under construction, less than or equal to 50 percent complete | 36.0 |
| 2018 | 12 | 49893 | Invenergy Services LLC | IPP | Upstream Wind Energy LLC | NE | 61784 | UWE | 202.5 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 202.5 |
| 2018 | 12 | 61133 | Lorenzo Wind, LLC | IPP | Lorenzo Wind | TX | 59244 | FIBE1 | 80.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 80.0 |
| 2018 | 12 | 11664 | Mark Technologies Corp | IPP | Alta Mesa Project Phase IV | CA | 55352 | GEN1 | 40.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 40.0 |
| 2018 | 12 | 59761 | McLean Homestead, LLC | IPP | McLean Homestead | NC | 60020 | PV1 | 4.9 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 4.9 |
| 2018 | 12 | 61381 | Meadow Lake Wind Farm VI LLC | IPP | Meadow Lake Wind Farm VI LLC | IN | 61756 | MWLVI | 200.4 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.4 |
| 2018 | 12 | 61004 | Midway Solar LLC | IPP | Midway Solar - TX | TX | 61368 | PV1 | 182.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 182.0 |
| 2018 | 12 | 61396 | Midway Wind, LLC | IPP | Midway Wind, LLC | TX | 61776 | MIDWY | 162.9 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 162.8 |
| 2018 | 12 | 61292 | NC State University, Energy Systems | Commercial | NCSU CCUP Cogeneration Plant | NC | 61675 | CTG1 | 5.6 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 5.6 |
| 2018 | 12 | 61292 | NC State University, Energy Systems | Commercial | NCSU CCUP Cogeneration Plant | NC | 61675 | STG | 1.0 | Natural Gas Steam Turbine | NG | ST | (V) Under construction, more than 50 percent complete | 1.0 |
| 2018 | 12 | 60018 | NET Power, LLC | IPP | NET Power La Porte Station | TX | 60910 | NPLPS | 25.5 | Other Natural Gas | NG | OT | (V) Under construction, more than 50 percent complete | 25.5 |
| 2018 | 12 | 61401 | North 301 Solar | IPP | North 301 Solar | NC | 61778 | N301 | 20.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 20.0 |
| 2018 | 12 | 58477 | O2energies, Inc. | IPP | Five Forks Solar | NC | 59951 | 5FRK | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2018 | 12 | 58764 | Origis Energy USA, Inc | IPP | OR Solar 2, LLC | OR | 61200 | ORSR2 | 10.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 10.0 |
| 2018 | 12 | 60466 | Rowan Solar NC LLC | IPP | Rowan Solar NC LLC | NC | 60780 | PV1 | 2.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 2.0 |
| 2018 | 12 | 60975 | SR Innovation, LLC | IPP | SR Innovation - NIKE PV | TN | 61332 | NIKE2 | 1.7 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 1.7 |
| 2018 | 12 | 60334 | SR Millington, LLC | IPP | Millington Solar Farm | TN | 60560 | MILL | 53.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 53.0 |
| 2018 | 12 | 60693 | Saratoga Wind Energy LLC | IPP | Saratoga Wind Farm | IA | 61070 | SWE | 66.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 66.0 |
| 2018 | 12 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | Oak Hill Solar Array | IN | 61333 | OHSA1 | 2.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 2.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Alexis Solar | NC | 60139 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Blue Bird Solar | NC | 60177 | PV1 | 4.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 4.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Brooke Solar | NC | 60140 | PV1 | 4.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 4.5 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Cash Solar | NC | 60178 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Eagle Solar | NC | 60161 | PV1 | 4.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 4.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Grove Solar | NC | 60181 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Heedeh Solar | NC | 60157 | PV1 | 4.5 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 4.5 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Higgins Solar | NC | 60166 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Icarus Solar | NC | 60169 | PV1 | 3.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Iga Solar | NC | 60170 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Izia Solar | NC | 60141 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | June Solar | NC | 60158 | PV1 | 4.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 4.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Kathleen Solar | NC | 60180 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Longleaf Solar | NC | 60173 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Robin Solar | NC | 60165 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Roman Solar | NC | 60159 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Shelter Solar | NC | 60156 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Tate Solar | NC | 60160 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 58658 | Sunlight Partners | IPP | Wilfork Solar | NC | 60162 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2018 | 12 | 61005 | Sweetwater Solar LLC | IPP | Sweetwater Solar | WY | 61369 | PV1 | 92.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 92.0 |
| 2018 | 12 | 18454 | Tampa Electric Co | Electric Utility | Bonnie Mine Solar | FL | 61655 | PV1 | 35.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 35.0 |
| 2018 | 12 | 18454 | Tampa Electric Co | Electric Utility | Grange Hall Solar | FL | 61656 | PV1 | 61.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 61.0 |
| 2018 | 12 | 18454 | Tampa Electric Co | Electric Utility | Lithia Solar | FL | 61663 | GEN1 | 74.5 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 74.5 |
| 2018 | 12 | 18454 | Tampa Electric Co | Electric Utility | Mountain View Solar (FL) | FL | 61664 | GEN1 | 55.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 55.0 |
| 2018 | 12 | 18454 | Tampa Electric Co | Electric Utility | Peace Creek Solar | FL | 61666 | GEN | 56.6 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 56.6 |
| 2018 | 12 | 61215 | Techren Solar LLC | IPP | Techren | NV | 61611 | TECH1 | 100.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 100.0 |
| 2018 | 12 | 60249 | Tenaska Pennsylvania Partners, LLC | IPP | Tenaska Westmoreland Generating Station | PA | 60464 | CTG1 | 276.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 370.0 |
| 2018 | 12 | 60249 | Tenaska Pennsylvania Partners, LLC | IPP | Tenaska Westmoreland Generating Station | PA | 60464 | CTG2 | 276.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 370.0 |
| 2018 | 12 | 60249 | Tenaska Pennsylvania Partners, LLC | IPP | Tenaska Westmoreland Generating Station | PA | 60464 | STG1 | 374.0 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 394.0 |
| 2018 | 12 | 61436 | Titan Solar, LLC | IPP | Titan Solar | CO | 61811 | PCEC | 50.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 50.0 |
| 2018 | 12 | 19511 | University of Alaska | Commercial | University of Alaska Fairbanks | AK | 50711 | GEN5 | 17.0 | Conventional Steam Coal | SUB | ST | (U) Under construction, less than or equal to 50 percent complete | 17.0 |
| 2018 | 12 | 19876 | Virginia Electric & Power Co | Electric Utility | Greensville County Power Station | VA | 59913 | CT01 | 324.4 | Natural Gas Fired Combined Cycle | NG | CC | (V) Under construction, more than 50 percent complete | 369.8 |
| 2018 | 12 | 19876 | Virginia Electric & Power Co | Electric Utility | Greensville County Power Station | VA | 59913 | CT02 | 324.4 | Natural Gas Fired Combined Cycle | NG | CC | (V) Under construction, more than 50 percent complete | 369.8 |
| 2018 | 12 | 19876 | Virginia Electric & Power Co | Electric Utility | Greensville County Power Station | VA | 59913 | CT03 | 324.4 | Natural Gas Fired Combined Cycle | NG | CC | (V) Under construction, more than 50 percent complete | 369.8 |
| 2018 | 12 | 19876 | Virginia Electric & Power Co | Electric Utility | Greensville County Power Station | VA | 59913 | ST01 | 611.8 | Natural Gas Fired Combined Cycle | NG | CC | (V) Under construction, more than 50 percent complete | 663.9 |
| 2018 | 12 | 19876 | Virginia Electric & Power Co | Electric Utility | Hollyfield | VA | 61023 | 1 | 6.8 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 17.0 |
| 2018 | 12 | 60847 | West Fork Wind, LLC | IPP | West Fork Wind | IN | 61214 | WT1 | 150.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 150.0 |
| 2018 | 12 | 60154 | White Street Renewables LLC | IPP | White Street Renewables | NC | 60364 | WSLFG | 1.6 | Landfill Gas | LFG | IC | (T) Regulatory approvals received. Not under construction | 1.6 |
| 2018 | 12 | 60154 | White Street Renewables LLC | IPP | White Street Renewables | NC | 60364 | WSPV | 3.4 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 3.4 |
| 2018 | 12 | 61291 | Wildcat Ranch Wind Project, LLC | IPP | Wildcat Ranch Wind Project | TX | 61674 | WT | 150.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 150.0 |
| 2018 | 12 | 59731 | Windham Solar LLC | IPP | Lebanon Solar 1 | CT | 59991 | LEB1 | 2.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 2.0 |
| 2018 | 12 | 59731 | Windham Solar LLC | IPP | Lebanon Solar 2 | CT | 59992 | LEB2 | 2.0 | Solar Photovoltaic | SUN | PV | (V) Under construction, more than 50 percent complete | 2.0 |
| 2018 | 12 | 60875 | Wolf Run Energy LLC | IPP | Wolf Run Energy | PA | 61263 | GEN1 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2018 | 12 | 60875 | Wolf Run Energy LLC | IPP | Wolf Run Energy | PA | 61263 | GEN2 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2018 | 12 | 60875 | Wolf Run Energy LLC | IPP | Wolf Run Energy | PA | 61263 | GEN3 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2018 | 12 | 60875 | Wolf Run Energy LLC | IPP | Wolf Run Energy | PA | 61263 | GEN4 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2018 | 12 | 60875 | Wolf Run Energy LLC | IPP | Wolf Run Energy | PA | 61263 | GEN5 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 1 | 803 | Arizona Public Service Co | Electric Utility | Ocotillo | AZ | 116 | GT5 | 104.7 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 161.9 |
| 2019 | 1 | 803 | Arizona Public Service Co | Electric Utility | Ocotillo | AZ | 116 | GT7 | 104.7 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 161.9 |
| 2019 | 1 | 18445 | City of Tallahassee - (FL) | Electric Utility | Arvah B Hopkins | FL | 688 | IC1 | 18.5 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 18.8 |
| 2019 | 1 | 18445 | City of Tallahassee - (FL) | Electric Utility | Arvah B Hopkins | FL | 688 | IC2 | 18.5 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 18.8 |
| 2019 | 1 | 18445 | City of Tallahassee - (FL) | Electric Utility | Arvah B Hopkins | FL | 688 | IC3 | 18.5 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 18.8 |
| 2019 | 1 | 18445 | City of Tallahassee - (FL) | Electric Utility | Arvah B Hopkins | FL | 688 | IC4 | 18.5 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 18.8 |
| 2019 | 1 | 58519 | Clean Energy Collective LLC | IPP | SCE&G Curie CSG | SC | 61432 | SCCU1 | 2.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 2.0 |
| 2019 | 1 | 5701 | El Paso Electric Co | Electric Utility | New Mexico Community Solar Facility | NM | 61783 | NMCSF | 2.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 2.0 |
| 2019 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Interstate Solar Energy Center | FL | 61768 | 1 | 74.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 74.5 |
| 2019 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Miami Dade Solar Energy Center | FL | 61766 | 1 | 74.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 74.5 |
| 2019 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Pioneer Trail Solar Energy Center | FL | 61767 | 1 | 74.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 74.5 |
| 2019 | 1 | 6452 | Florida Power & Light Co | Electric Utility | Sunshine Gateway Solar Energy Center | FL | 61763 | 1 | 74.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 74.5 |
| 2019 | 1 | 61365 | Hilltopper Wind Project, LLC | IPP | Hilltopper Wind Project | IL | 61735 | WT1 | 185.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 185.0 |
| 2019 | 1 | 59458 | Landfill Energy Systems Florida | IPP | Sarasota County LFGTE Facility | FL | 59686 | LESF4 | 1.6 | Landfill Gas | LFG | IC | (P) Planned for installation, but regulatory approvals not initiated | 1.6 |
| 2019 | 1 | 58783 | Marseilles Land and Water Company | IPP | Marseilles Lock and Dam Hydro | IL | 58903 | UNIT1 | 2.6 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 2.6 |
| 2019 | 1 | 58783 | Marseilles Land and Water Company | IPP | Marseilles Lock and Dam Hydro | IL | 58903 | UNIT2 | 2.6 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 2.6 |
| 2019 | 1 | 58783 | Marseilles Land and Water Company | IPP | Marseilles Lock and Dam Hydro | IL | 58903 | UNIT3 | 2.6 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 2.6 |
| 2019 | 1 | 58783 | Marseilles Land and Water Company | IPP | Marseilles Lock and Dam Hydro | IL | 58903 | UNIT4 | 2.6 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 2.6 |
| 2019 | 1 | 60389 | Rabbit Hill Energy Storage Project | IPP | Rabbit Hill Energy Storage Project | TX | 60649 | 1 | 9.9 | Batteries | MWH | BA | (V) Under construction, more than 50 percent complete | 9.9 |
| 2019 | 2 | 61344 | Advanced Microgrid Solutions | IPP | HEBT WLA 1 | CA | 61721 | WLA01 | 1.0 | Batteries | MWH | BA | (TS) Construction complete, but not yet in commercial operation | 1.0 |
| 2019 | 2 | 61344 | Advanced Microgrid Solutions | IPP | HEBT WLA 1 | CA | 61721 | WLA02 | 1.0 | Batteries | MWH | BA | (TS) Construction complete, but not yet in commercial operation | 1.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2019 | 2 | 61344 | Advanced Microgrid Solutions | IPP | HEBT WLA 1 | CA | 61721 | WLA1C | 11.8 | Batteries | MWH | BA | (P) Planned for installation, but regulatory approvals not initiated | 11.8 |
| 2019 | 2 | 60379 | Howardtown Farm, LLC | IPP | Howardtown Farm | NC | 60630 | PV1 | 10.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 10.0 |
| 2019 | 2 | 54769 | INEOS USA LLC | Industrial | Power Island | TX | 10154 | GEN2 | 50.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 50.0 |
| 2019 | 2 | 54769 | INEOS USA LLC | Industrial | Power Island | TX | 10154 | GEN3 | 50.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 50.0 |
| 2019 | 3 | 61060 | Cypress Creek Renewables | IPP | Willard Solar | NC | 60287 | PV1 | 4.9 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 5.0 |
| 2019 | 3 | 60718 | Energy Resources USA, Inc. | IPP | Tom Bevill Lock and Dam Hydroelectric | AL | 61749 | GEN1 | 4.0 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 4.0 |
| 2019 | 3 | 60718 | Energy Resources USA, Inc. | IPP | Tom Bevill Lock and Dam Hydroelectric | AL | 61749 | GEN2 | 4.0 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 4.0 |
| 2019 | 3 | 60718 | Energy Resources USA, Inc. | IPP | Tom Bevill Lock and Dam Hydroelectric | AL | 61749 | GEN3 | 4.0 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 4.0 |
| 2019 | 3 | 60251 | GRP Franklin Renewable Energy Facility, LLC | IPP | GRP Franklin Renewable Energy Facility | GA | 60550 | GEN | 93.5 | Wood/Wood Waste Biomass | WDS | ST | (T) Regulatory approvals received. Not under construction | 93.5 |
| 2019 | 3 | 60846 | GRP Madison Renewable Energy Facility, LLC | IPP | GRP Madison Renewable Energy Facility | GA | 61213 | GEN | 65.0 | Wood/Wood Waste Biomass | WDS | ST | (P) Planned for installation, but regulatory approvals not initiated | 65.0 |
| 2019 | 3 | 9417 | Interstate Power and Light Co | Electric Utility | English Farms | IA | 61565 | 1 | 169.9 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 169.9 |
| 2019 | 3 | 9417 | Interstate Power and Light Co | Electric Utility | Upland Prairie | IA | 61564 | 1 | 299.3 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 299.3 |
| 2019 | 3 | 59898 | Kawailoa Solar, LLC | IPP | Kawailoa Solar | HI | 60125 | KAWS | 49.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 49.0 |
| 2019 | 3 | 60987 | Lanikuhana Solar LLC | IPP | Lanikuhana Solar LLC | HI | 58281 | 1 | 14.7 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 14.7 |
| 2019 | 3 | 13206 | Nantucket Electric Co | Electric Utility | Nantucket | MA | 1615 | 18 | 13.5 | Petroleum Liquids | DFO | GT | (U) Under construction, less than or equal to 50 percent complete | 15.4 |
| 2019 | 3 | 13206 | Nantucket Electric Co | Electric Utility | Nantucket | MA | 1615 | 19 | 0.8 | Petroleum Liquids | DFO | IC | (U) Under construction, less than or equal to 50 percent complete | 0.8 |
| 2019 | 3 | 56545 | Pattern Operators LP | IPP | Grady Wind Energy Center, LLC | NM | 60317 | 1 | 220.8 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 220.8 |
| 2019 | 3 | 59967 | Phoenix Energy | Electric CHP | North Fork Community Power | CA | 60192 | NFCP1 | 2.0 | Other Waste Biomass | OBG | IC | (U) Under construction, less than or equal to 50 percent complete | 2.0 |
| 2019 | 3 | 59010 | Rhubarb One LLC | IPP | Rhubarb One | NC | 59216 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 5.0 |
| 2019 | 3 | 59764 | Waipio PV, LLC | IPP | Waipio Solar | HI | 60024 | WPO | 45.9 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 45.9 |
| 2019 | 4 | 803 | Arizona Public Service Co | Electric Utility | Ocotillo | AZ | 116 | GT3 | 104.7 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 161.9 |
| 2019 | 4 | 803 | Arizona Public Service Co | Electric Utility | Ocotillo | AZ | 116 | GT4 | 104.7 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 161.9 |
| 2019 | 4 | 60609 | Clean Focus Renewables, Inc. | IPP | Rugged Solar LLC | CA | 57960 | 1 | 80.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 80.0 |
| 2019 | 4 | 60195 | Groton Station Fuel Cell, LLC | IPP | Naval Sub Base New London Fuel Cell | CT | 61743 | MMH2 | 3.7 | Other Natural Gas | NG | FC | (P) Planned for installation, but regulatory approvals not initiated | 3.7 |
| 2019 | 4 | 60192 | Warbler Holdings, LLC | IPP | Warbler Holdings | NC | 60393 | PV1 | 4.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 4.0 |
| 2019 | 5 | 60672 | Birdsboro Power LLC | IPP | Birdsboro Power | PA | 61035 | GEN1 | 476.0 | Natural Gas Fired Combined Cycle | NG | CS | (U) Under construction, less than or equal to 50 percent complete | 525.0 |
| 2019 | 5 | 2172 | Brazos Electric Power Coop Inc | Electric Utility | Hill County Generation Facility | TX | 60194 | CT1 | 205.0 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 232.0 |
| 2019 | 5 | 2172 | Brazos Electric Power Coop Inc | Electric Utility | Hill County Generation Facility | TX | 60194 | CT2 | 205.0 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 232.0 |
| 2019 | 5 | 2172 | Brazos Electric Power Coop Inc | Electric Utility | Hill County Generation Facility | TX | 60194 | CT3 | 205.0 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 232.0 |
| 2019 | 5 | 2172 | Brazos Electric Power Coop Inc | Electric Utility | Hill County Generation Facility | TX | 60194 | CT4 | 205.0 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 232.0 |
| 2019 | 5 | 60195 | Groton Station Fuel Cell, LLC | IPP | Naval Sub Base New London Fuel Cell | CT | 61743 | MMH3 | 3.7 | Other Natural Gas | NG | FC | (P) Planned for installation, but regulatory approvals not initiated | 3.7 |
| 2019 | 5 | 54888 | NRG Texas Power LLC | IPP | Bacliff | TX | 60264 | BCGT1 | 60.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 71.2 |
| 2019 | 5 | 54888 | NRG Texas Power LLC | IPP | Bacliff | TX | 60264 | BCGT2 | 60.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 71.2 |
| 2019 | 5 | 54888 | NRG Texas Power LLC | IPP | Bacliff | TX | 60264 | BCGT3 | 60.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 71.2 |
| 2019 | 5 | 54888 | NRG Texas Power LLC | IPP | Bacliff | TX | 60264 | BCGT4 | 60.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 71.2 |
| 2019 | 5 | 54888 | NRG Texas Power LLC | IPP | Bacliff | TX | 60264 | BCGT5 | 60.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 71.2 |
| 2019 | 5 | 54888 | NRG Texas Power LLC | IPP | Bacliff | TX | 60264 | BCGT6 | 60.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 71.2 |
| 2019 | 5 | 56987 | RRE Austin Solar LLC | IPP | Pflugerville Solar Farm | TX | 57659 | PSF | 120.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 120.0 |
| 2019 | 5 | 17718 | Southwestern Public Service Co | Electric Utility | Gaines County | TX | 60697 | GC-1 | 186.0 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 225.0 |
| 2019 | 5 | 19564 | University of Notre Dame | Commercial | University of Notre Dame | IN | 50366 | GT1 | 5.6 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 5.4 |
| 2019 | 5 | 19564 | University of Notre Dame | Commercial | University of Notre Dame | IN | 50366 | GT2 | 5.6 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 5.4 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | A.J. Mihm Generating Station | MI | 61391 | M1 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | A.J. Mihm Generating Station | MI | 61391 | M2 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | A.J. Mihm Generating Station | MI | 61391 | M3 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | F.D. Kuester Generating Station | MI | 61392 | K1 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | F.D. Kuester Generating Station | MI | 61392 | K2 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | F.D. Kuester Generating Station | MI | 61392 | K3 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | F.D. Kuester Generating Station | MI | 61392 | K4 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | F.D. Kuester Generating Station | MI | 61392 | K5 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | F.D. Kuester Generating Station | MI | 61392 | K6 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 5 | 61029 | Upper Michigan Energy Resources Company | Electric Utility | F.D. Kuester Generating Station | MI | 61392 | K7 | 18.3 | Natural Gas Internal Combustion Engine | NG | IC | (U) Under construction, less than or equal to 50 percent complete | 18.3 |
| 2019 | 6 | 60877 | Antelope DSR 3, LLC | IPP | Antelope DSR 3 | CA | 61265 | ADSR3 | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2019 | 6 | 60395 | California Ethanol Power, LLC | Industrial | CE&P Imperial Valley 1 | CA | 60670 | 1 | 50.0 | All Other | OTH | CC | (T) Regulatory approvals received. Not under construction | 50.0 |
| 2019 | 6 | 56606 | Calpine New Jersey Generation LLC | IPP | Deepwater | NJ | 2384 | CT1 | 235.0 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 242.0 |
| 2019 | 6 | 56606 | Calpine New Jersey Generation LLC | IPP | Deepwater | NJ | 2384 | ST1 | 198.5 | Natural Gas Steam Turbine | NG | ST | (L) Regulatory approvals pending. Not under construction | 214.0 |
| 2019 | 6 | 59319 | Cotton Solar, LLC | IPP | Cotton Solar | SC | 59572 | PV1 | 16.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 16.0 |
| 2019 | 6 | 59550 | Croda Inc. | Industrial | Croda Atlas Point CHP | DE | 59783 | 91199 | 2.0 | Landfill Gas | LFG | IC | (P) Planned for installation, but regulatory approvals not initiated | 2.0 |
| 2019 | 6 | 39347 | East Texas Electric Coop, Inc | Electric Utility | RC Thomas Hydroelectric Project | TX | 58645 | RCT1 | 8.7 | Conventional Hydroelectric | WAT | HY | (U) Under construction, less than or equal to 50 percent complete | 8.9 |
| 2019 | 6 | 39347 | East Texas Electric Coop, Inc | Electric Utility | RC Thomas Hydroelectric Project | TX | 58645 | RCT2 | 8.7 | Conventional Hydroelectric | WAT | HY | (U) Under construction, less than or equal to 50 percent complete | 8.9 |
| 2019 | 6 | 39347 | East Texas Electric Coop, Inc | Electric Utility | RC Thomas Hydroelectric Project | TX | 58645 | RCT3 | 8.7 | Conventional Hydroelectric | WAT | HY | (U) Under construction, less than or equal to 50 percent complete | 8.9 |
| 2019 | 6 | 11241 | Entergy Louisiana LLC | Electric Utility | St. Charles Power Station (LA) | LA | 60926 | 1A | 250.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 250.0 |
| 2019 | 6 | 11241 | Entergy Louisiana LLC | Electric Utility | St. Charles Power Station (LA) | LA | 60926 | 1B | 250.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 250.0 |
| 2019 | 6 | 11241 | Entergy Louisiana LLC | Electric Utility | St. Charles Power Station (LA) | LA | 60926 | 1C | 500.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 500.0 |
| 2019 | 6 | 56625 | Flat Water Wind Farm LLC | IPP | Flat Water Wind Farm LLC | NE | 57283 | WTG2 | 10.5 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 10.5 |
| 2019 | 6 | 6452 | Florida Power & Light Co | Electric Utility | Okeechobee Clean Energy Center | FL | 60345 | 1A | 376.6 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 376.6 |
| 2019 | 6 | 6452 | Florida Power & Light Co | Electric Utility | Okeechobee Clean Energy Center | FL | 60345 | 1B | 376.6 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 376.6 |
| 2019 | 6 | 6452 | Florida Power & Light Co | Electric Utility | Okeechobee Clean Energy Center | FL | 60345 | 1C | 376.6 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 376.6 |
| 2019 | 6 | 6452 | Florida Power & Light Co | Electric Utility | Okeechobee Clean Energy Center | FL | 60345 | 1ST | 593.3 | Natural Gas Fired Combined Cycle | NG | CA | (L) Regulatory approvals pending. Not under construction | 593.3 |
| 2019 | 6 | 61037 | Foard City Wind, LLC | IPP | Foard City Wind | TX | 61402 | FOARD | 350.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 350.0 |
| 2019 | 6 | 7140 | Georgia Power Co | Electric Utility | Vogtle | GA | 649 | 3 | 1,100.0 | Nuclear | NUC | ST | (U) Under construction, less than or equal to 50 percent complete | 1,100.0 |
| 2019 | 6 | 60259 | Green River Wind Farm, LLC | IPP | Green River Wind Farm | IL | 60471 | GRNRV | 212.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 212.0 |
| 2019 | 6 | 60002 | Halyard Energy Wharton, LLC | IPP | Halyard Wharton Energy Center | TX | 60221 | TBN1 | 210.0 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 232.0 |
| 2019 | 6 | 60002 | Halyard Energy Wharton, LLC | IPP | Halyard Wharton Energy Center | TX | 60221 | TBN2 | 210.0 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 232.0 |
| 2019 | 6 | 59678 | KDC Solar PR1, LLC | IPP | KDC Solar PR1, LLC | NJ | 59910 | SF | 22.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 22.0 |
| 2019 | 6 | 59487 | Moundsville Power, LLC | IPP | Moundsville Power | WV | 59720 | MPCA1 | 224.9 | Natural Gas Fired Combined Cycle | NG | CA | (L) Regulatory approvals pending. Not under construction | 321.6 |
| 2019 | 6 | 59487 | Moundsville Power, LLC | IPP | Moundsville Power | WV | 59720 | MPCT1 | 177.3 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 195.5 |
| 2019 | 6 | 59487 | Moundsville Power, LLC | IPP | Moundsville Power | WV | 59720 | MPCT2 | 177.3 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 195.5 |
| 2019 | 6 | 21461 | NRG Canal LLC | IPP | Canal | MA | 1599 | 3 | 330.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 330.0 |
| 2019 | 6 | 13402 | Nevada Irrigation District | IPP | Loma Rica Hydroelectric Powerhouse | CA | 60988 | HY1 | 1.4 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 1.4 |
| 2019 | 6 | 60874 | Niles Valley Energy LLC | IPP | Niles Valley Energy LLC | PA | 61286 | GEN1 | 4.2 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 6 | 60874 | Niles Valley Energy LLC | IPP | Niles Valley Energy LLC | PA | 61286 | GEN2 | 4.2 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 6 | 60874 | Niles Valley Energy LLC | IPP | Niles Valley Energy LLC | PA | 61286 | GEN3 | 4.2 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 6 | 60874 | Niles Valley Energy LLC | IPP | Niles Valley Energy LLC | PA | 61286 | GEN4 | 4.2 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 6 | 60874 | Niles Valley Energy LLC | IPP | Niles Valley Energy LLC | PA | 61286 | GEN5 | 4.2 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 6 | 15452 | PSEG Power Connecticut LLC | IPP | Bridgeport Station | CT | 568 | 501 | 375.7 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 375.7 |
| 2019 | 6 | 15452 | PSEG Power Connecticut LLC | IPP | Bridgeport Station | CT | 568 | 502 | 200.6 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 200.6 |
| 2019 | 6 | 17650 | Southern Power Co | IPP | Mankato Energy Center | MN | 56104 | CTG1 | 200.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 210.0 |
| 2019 | 6 | 61215 | Techren Solar LLC | IPP | Techren | NV | 61611 | TECH2 | 200.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 200.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2019 | 6 | 20159 | Washington Parish Engy Ctr LLC | IPP | Washington Parish Energy Center | LA | 55486 | CTG1 | 172.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 200.0 |
| 2019 | 6 | 20159 | Washington Parish Engy Ctr LLC | IPP | Washington Parish Energy Center | LA | 55486 | CTG2 | 172.0 | Natural Gas Fired Combined Cycle | NG | CT | (V) Under construction, more than 50 percent complete | 200.0 |
| 2019 | 6 | 20159 | Washington Parish Engy Ctr LLC | IPP | Washington Parish Energy Center | LA | 55486 | ST1 | 215.0 | Natural Gas Fired Combined Cycle | NG | CA | (V) Under construction, more than 50 percent complete | 255.0 |
| 2019 | 6 | 58761 | White Camp Solar LLC | IPP | White Camp Solar | TX | 58888 | WCAMP | 100.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 100.0 |
| 2019 | 6 | 60519 | Williams Solar, LLC | IPP | Williams Solar, LLC | TX | 60859 | PV1 | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2019 | 7 | 54863 | U S Power Generating Company LLC | IPP | Gowanus Gas Turbines Generating | NY | 2494 | SS | 90.0 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 93.0 |
| 2019 | 7 | 61276 | West Liberty Renewables LLC | IPP | West Liberty Wind Farm | IA | 61057 | T1 | 2.5 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 2.5 |
| 2019 | 7 | 61276 | West Liberty Renewables LLC | IPP | West Liberty Wind Farm | IA | 61057 | T2 | 2.5 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 2.5 |
| 2019 | 8 | 59714 | Antrim Wind Energy LLC | IPP | Antrim Wind | NH | 59953 | AWND1 | 28.4 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 28.8 |
| 2019 | 8 | 58718 | Na Pua Makani Power Partners LLC | IPP | Na Pua Makani Wind Project | HI | 58837 | WT1 | 25.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 25.0 |
| 2019 | 8 | 16534 | Sacramento Municipal Util Dist | Electric Utility | White Rock/Slab Creek | CA | 435 | H3 | 2.7 | Conventional Hydroelectric | WAT | HY | (U) Under construction, less than or equal to 50 percent complete | 2.7 |
| 2019 | 8 | 59056 | Tri Global Energy, LLC | IPP | Canyon Wind Project, LLC | TX | 60271 | WT1 | 360.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 360.0 |
| 2019 | 9 | 60328 | Big Level Wind LLC | IPP | Big Level Wind | PA | 60551 | BLW01 | 90.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 90.0 |
| 2019 | 9 | 60719 | Broadlands Wind Farm LLC | IPP | Broadlands Wind Farm | IL | 61161 | GEN01 | 300.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 300.0 |
| 2019 | 9 | 59365 | Capital Power Corporation | IPP | Black Fork Wind Energy Project | OH | 59907 | GEN | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2019 | 9 | 61302 | Depot Solar Center, LLC | IPP | Depot Solar Center, LLC | VA | 61691 | DEPOT | 15.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 15.0 |
| 2019 | 9 | 61374 | Foxtail Wind, LLC | Electric Utility | Foxtail Wind, LLC | ND | 61747 | 1 | 150.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 150.0 |
| 2019 | 9 | 59683 | Rockwood Energy Center LLC | IPP | Rockwood Energy Center LLC | TX | 59918 | ROCKW | 1,068.0 | Natural Gas Fired Combined Cycle | NG | CC | (T) Regulatory approvals received. Not under construction | 1,068.0 |
| 2019 | 9 | 17609 | Southern California Edison Co | Electric Utility | DESI-1 Battery Energy Storage Facility | CA | 60699 | DESI1 | 2.4 | Batteries | MWH | BA | (TS) Construction complete, but not yet in commercial operation | 2.4 |
| 2019 | 9 | 19539 | University of Iowa | Commercial | University of Iowa Main Power Plant | IA | 54775 | GEN12 | 5.8 | Natural Gas Steam Turbine | NG | ST | (L) Regulatory approvals pending. Not under construction | 5.8 |
| 2019 | 9 | 19539 | University of Iowa | Commercial | University of Iowa Main Power Plant | IA | 54775 | GEN13 | 10.0 | Natural Gas Steam Turbine | NG | ST | (L) Regulatory approvals pending. Not under construction | 10.0 |
| 2019 | 9 | 20421 | Western Minnesota Mun Pwr Agny | Electric Utility | Red Rock Hydro Plant | IA | 58434 | 1 | 27.5 | Conventional Hydroelectric | WAT | HY | (T) Regulatory approvals received. Not under construction | 18.2 |
| 2019 | 9 | 20421 | Western Minnesota Mun Pwr Agny | Electric Utility | Red Rock Hydro Plant | IA | 58434 | 2 | 27.5 | Conventional Hydroelectric | WAT | HY | (T) Regulatory approvals received. Not under construction | 18.2 |
| 2019 | 10 | 60797 | 68SF 8me LLC | IPP | Eland 1 Solar Farm | CA | 61168 | 68SF8 | 200.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2019 | 10 | 60688 | FGE Goodnight, LLC | IPP | Goodnight | TX | 59246 | GOOD1 | 500.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 500.0 |
| 2019 | 10 | 58850 | Mariah del Sur LLC | IPP | Mariah South | TX | 59007 | MAR S | 210.4 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 210.4 |
| 2019 | 10 | 60720 | Martinsdale Wind Farm LLC | IPP | Martinsdale Wind Farm | MT | 61108 | MTD | 80.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 80.0 |
| 2019 | 10 | 14232 | Otter Tail Power Co | Electric Utility | Merricourt Wind Project | ND | 57048 | 1 | 150.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 150.0 |
| 2019 | 10 | 16657 | San Jose/Santa Clara Water P C | Commercial | SJ/SC WPCP | CA | 56080 | EG4 | 3.5 | Other Waste Biomass | OBG | IC | (P) Planned for installation, but regulatory approvals not initiated | 3.5 |
| 2019 | 10 | 16657 | San Jose/Santa Clara Water P C | Commercial | SJ/SC WPCP | CA | 56080 | EG5 | 3.5 | Other Waste Biomass | OBG | IC | (P) Planned for installation, but regulatory approvals not initiated | 3.5 |
| 2019 | 10 | 16657 | San Jose/Santa Clara Water P C | Commercial | SJ/SC WPCP | CA | 56080 | EG6 | 3.5 | Other Waste Biomass | OBG | IC | (P) Planned for installation, but regulatory approvals not initiated | 3.5 |
| 2019 | 10 | 16657 | San Jose/Santa Clara Water P C | Commercial | SJ/SC WPCP | CA | 56080 | EG7 | 3.5 | Other Waste Biomass | OBG | IC | (P) Planned for installation, but regulatory approvals not initiated | 3.5 |
| 2019 | 10 | 61330 | Turtle Creek Wind Farm LLC | IPP | Turtle Creek Wind Farm LLC | IA | 61638 | TC1 | 200.1 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 200.1 |
| 2019 | 10 | 59260 | Wright Solar Park LLC | IPP | Wright Solar Park | CA | 59525 | FRWSP | 200.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 200.0 |
| 2019 | 11 | 3046 | Duke Energy Progress - (NC) | Electric Utility | Asheville | NC | 2706 | CT5 | 191.2 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 191.2 |
| 2019 | 11 | 3046 | Duke Energy Progress - (NC) | Electric Utility | Asheville | NC | 2706 | CT7 | 191.2 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 191.2 |
| 2019 | 11 | 3046 | Duke Energy Progress - (NC) | Electric Utility | Asheville | NC | 2706 | ST6 | 102.0 | Natural Gas Fired Combined Cycle | NG | CA | (P) Planned for installation, but regulatory approvals not initiated | 102.0 |
| 2019 | 11 | 3046 | Duke Energy Progress - (NC) | Electric Utility | Asheville | NC | 2706 | ST8 | 102.0 | Natural Gas Fired Combined Cycle | NG | CA | (P) Planned for installation, but regulatory approvals not initiated | 102.0 |
| 2019 | 11 | 60229 | Quail Holdings, LLC | IPP | Quail Holdings | NC | 60434 | PV1 | 25.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 25.0 |
| 2019 | 11 | 59770 | Shorthorn Holdings, LLC | IPP | Shorthorn Holdings | SC | 60028 | PV1 | 15.4 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 15.4 |
| 2019 | 11 | 2770 | Terra-Gen Operating Co LLC | IPP | Voyager Wind I | CA | 60594 | VYGR1 | 131.1 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 131.1 |
| 2019 | 12 | 60600 | Adams Solar, LLC | IPP | Adams Solar | NC | 60949 | PV1 | 2.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 2.0 |
| 2019 | 12 | 61118 | Ameresco, Inc - Candlewood | IPP | Candlewood Solar | CT | 61517 | CANDL | 25.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 25.0 |
| 2019 | 12 | 59192 | Amity Energy, LLC | IPP | Amity Energy LLC | PA | 59418 | 1 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (L) Regulatory approvals pending. Not under construction | 7.0 |
| 2019 | 12 | 59192 | Amity Energy, LLC | IPP | Amity Energy LLC | PA | 59418 | 2 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (L) Regulatory approvals pending. Not under construction | 7.0 |
| 2019 | 12 | 59192 | Amity Energy, LLC | IPP | Amity Energy LLC | PA | 59418 | 3 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (L) Regulatory approvals pending. Not under construction | 7.0 |
| 2019 | 12 | 60927 | Anchor Energy LLC | IPP | Anchor Energy | PA | 61304 | GEN1 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60927 | Anchor Energy LLC | IPP | Anchor Energy | PA | 61304 | GEN2 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60927 | Anchor Energy LLC | IPP | Anchor Energy | PA | 61304 | GEN3 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60927 | Anchor Energy LLC | IPP | Anchor Energy | PA | 61304 | GEN4 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60927 | Anchor Energy LLC | IPP | Anchor Energy | PA | 61304 | GEN5 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 15399 | Avangrid Renewables LLC | IPP | Coyote Ridge | SD | 61047 | WT1 | 98.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 98.0 |
| 2019 | 12 | 15399 | Avangrid Renewables LLC | IPP | Karankawa Wind LLC | TX | 61343 | WT1 | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2019 | 12 | 15399 | Avangrid Renewables LLC | IPP | Lund Hill | WA | 61045 | WT1 | 60.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 60.0 |
| 2019 | 12 | 15399 | Avangrid Renewables LLC | IPP | Montague Wind Power Facility LLC | OR | 58099 | 1 | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2019 | 12 | 15399 | Avangrid Renewables LLC | IPP | Otter Creek Wind Farm LLC | IL | 61344 | WT1 | 129.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 129.0 |
| 2019 | 12 | 15399 | Avangrid Renewables LLC | IPP | Tatanka Ridge | SD | 61046 | WT1 | 98.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 98.0 |
| 2019 | 12 | 58687 | Bayles Energy LLC | IPP | Bayles | PA | 58816 | 1 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (L) Regulatory approvals pending. Not under construction | 7.0 |
| 2019 | 12 | 58687 | Bayles Energy LLC | IPP | Bayles | PA | 58816 | 2 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (L) Regulatory approvals pending. Not under construction | 7.0 |
| 2019 | 12 | 58687 | Bayles Energy LLC | IPP | Bayles | PA | 58816 | 3 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (L) Regulatory approvals pending. Not under construction | 7.0 |
| 2019 | 12 | 60289 | Blazing Star Wind Farm, LLC | IPP | Blazing Star Wind Farm 1 | MN | 60504 | BLZG1 | 200.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 200.0 |
| 2019 | 12 | 60714 | Burke Wind LLC | IPP | Burke Wind, LLC | ND | 61100 | GE23 | 199.4 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 199.4 |
| 2019 | 12 | 59365 | Capital Power Corporation | IPP | Garrison Butte Wind, LLC | ND | 60066 | GEN | 150.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 150.0 |
| 2019 | 12 | 59365 | Capital Power Corporation | IPP | Poplars Ranch Solar LLC | OR | 59890 | GEN | 16.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 16.0 |
| 2019 | 12 | 58508 | Carolina Solar Energy II LLC | IPP | Cabaniss Solar | NC | 60430 | PV1 | 4.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 4.2 |
| 2019 | 12 | 58508 | Carolina Solar Energy II LLC | IPP | McGrigor Farm Solar | NC | 60440 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2019 | 12 | 58508 | Carolina Solar Energy II LLC | IPP | Sellers Farm Solar | NC | 60439 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2019 | 12 | 61416 | Cattle Ridge Wind Holdings, LLC | IPP | Cattle Ridge Wind Farm 1 | SD | 60503 | CTTL1 | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2019 | 12 | 58391 | Chilocco Wind Farm LLC | IPP | Chilocco Wind Farm | OK | 58406 | 1 | 200.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 200.0 |
| 2019 | 12 | 58695 | Coronal Development Services | IPP | Biggs Ford Solar Center | MD | 61321 | BFSC | 15.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 15.0 |
| 2019 | 12 | 60290 | Crocker Wind Farm, LLC | IPP | Crocker Wind Farm | SD | 60505 | CRCKR | 200.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 200.0 |
| 2019 | 12 | 59464 | Current Energy Group | IPP | Hickory | NC | 59829 | 5515 | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2019 | 12 | 56215 | E ON Climate Renewables N America LLC | IPP | Vici Wind Farm | OK | 59062 | VICI | 180.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 180.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Baron Winds Farm | NY | 60596 | 1 | 272.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 272.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Buckeye Wind Farm | OH | 58776 | 1 | 99.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 99.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Cassadaga Wind Farm | NY | 58777 | 1 | 126.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 126.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Horse Thief Wind Project, LLC | MT | 59758 | 1 | 80.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 80.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Mason Dixon Wind Farm | PA | 60212 | 1 | 79.9 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 79.9 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Mud Springs Wind Project, LLC | MT | 59756 | 1 | 80.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 80.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Pryor Caves Wind Project, LLC | MT | 59757 | 1 | 80.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 80.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Sand Creek Wind Farm | MT | 60595 | WT1 | 75.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 75.0 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Scioto Ridge Wind Farm | OH | 58780 | 1 | 189.2 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 189.2 |
| 2019 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Terrapin Hills Wind Farm | MD | 60211 | 1 | 50.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 50.0 |
| 2019 | 12 | 59745 | First Solar Asset Management | IPP | Twiggs Solar | GA | 61696 | TWIGG | 200.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 200.0 |
| 2019 | 12 | 56615 | First Solar Project Development | IPP | Sunshine Valley Solar | NV | 59826 | GEN01 | 102.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 100.0 |
| 2019 | 12 | 56615 | First Solar Project Development | IPP | Windhub Solar A LLC | CA | 59878 | GEN01 | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2019 | 12 | 56615 | First Solar Project Development | IPP | Windhub Solar B, LLC | CA | 59969 | GEN01 | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2019 | 12 | 58692 | Florey Knob LLC | IPP | Florey Knobb | PA | 58821 | 1 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2019 | 12 | 58692 | Florey Knob LLC | IPP | Florey Knobb | PA | 58821 | 2 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 58692 | Florey Knob LLC | IPP | Florey Knobb | PA | 58821 | 3 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 6541 | Formosa Plastics Corp | Industrial | Formosa Utility Venture Ltd | TX | 10554 | 3ST1 | 38.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 40.0 |
| 2019 | 12 | 6541 | Formosa Plastics Corp | Industrial | Formosa Utility Venture Ltd | TX | 10554 | 3TBG1 | 97.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 102.0 |
| 2019 | 12 | 6541 | Formosa Plastics Corp | Industrial | Formosa Utility Venture Ltd | TX | 10554 | 3TBG2 | 97.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 102.0 |
| 2019 | 12 | 7140 | Georgia Power Co | Electric Utility | Robins Air Force Base Solar | GA | 61648 | 1 | 139.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 139.0 |
| 2019 | 12 | 61166 | Green Power Energy LLC | IPP | Cody Road Wind Farm | NY | 61592 | WT1 | 2.4 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.4 |
| 2019 | 12 | 61166 | Green Power Energy LLC | IPP | Cody Road Wind Farm | NY | 61592 | WT2 | 2.4 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.4 |
| 2019 | 12 | 61166 | Green Power Energy LLC | IPP | Cody Road Wind Farm | NY | 61592 | WT3 | 2.4 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.4 |
| 2019 | 12 | 61166 | Green Power Energy LLC | IPP | Cody Road Wind Farm | NY | 61592 | WT4 | 2.4 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.4 |
| 2019 | 12 | 61166 | Green Power Energy LLC | IPP | Cody Road Wind Farm | NY | 61592 | WT5 | 2.4 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 2.4 |
| 2019 | 12 | 60040 | Hale Wind Energy | IPP | Hale Community Wind Farm | TX | 59247 | HALE1 | 478.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 478.0 |
| 2019 | 12 | 60928 | Holdridge Energy LLC | IPP | Holdridge Energy | PA | 61305 | GEN1 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60928 | Holdridge Energy LLC | IPP | Holdridge Energy | PA | 61305 | GEN2 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60928 | Holdridge Energy LLC | IPP | Holdridge Energy | PA | 61305 | GEN3 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60928 | Holdridge Energy LLC | IPP | Holdridge Energy | PA | 61305 | GEN4 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60928 | Holdridge Energy LLC | IPP | Holdridge Energy | PA | 61305 | GEN5 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 58684 | Hop Bottom Energy LLC | IPP | Hop Bottom | PA | 58800 | 1 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 58684 | Hop Bottom Energy LLC | IPP | Hop Bottom | PA | 58800 | 2 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 58684 | Hop Bottom Energy LLC | IPP | Hop Bottom | PA | 58800 | 3 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 49893 | Invenergy Services LLC | IPP | Camilla Solar Energy Project | GA | 61785 | CAMSR | 160.0 | Solar Photovoltaic | SUN | PV | (U) Under construction, less than or equal to 50 percent complete | 160.0 |
| 2019 | 12 | 60349 | Juneau Hydropower, Inc | IPP | Sweetheart Lake Hydroelectric Facility | AK | 60588 | JHI01 | 6.6 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 6.6 |
| 2019 | 12 | 60349 | Juneau Hydropower, Inc | IPP | Sweetheart Lake Hydroelectric Facility | AK | 60588 | JHI02 | 6.6 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 6.6 |
| 2019 | 12 | 60349 | Juneau Hydropower, Inc | IPP | Sweetheart Lake Hydroelectric Facility | AK | 60588 | JHI03 | 6.6 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 6.6 |
| 2019 | 12 | 56939 | Lexington Chenoa Wind Farm II LLC | IPP | Bright Stalk Wind Farm II | IL | 57622 | GEN1 | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2019 | 12 | 56940 | Lexington Chenoa Wind Farm LLC | IPP | Bright Stalk Wind Farm I | IL | 57623 | GEN1 | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2019 | 12 | 55983 | Luminant Generation Company LLC | IPP | Horseshoe Bend | TX | 59806 | SOLAR | 140.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 140.0 |
| 2019 | 12 | 60340 | M&G Resins USA, LLC | Industrial | M&G Resins USA | TX | 60642 | 1 | 11.7 | All Other | WH | OT | (U) Under construction, less than or equal to 50 percent complete | 14.3 |
| 2019 | 12 | 60340 | M&G Resins USA, LLC | Industrial | M&G Resins USA | TX | 60642 | 2 | 11.7 | All Other | WH | OT | (U) Under construction, less than or equal to 50 percent complete | 14.3 |
| 2019 | 12 | 61422 | Mason Dixon Solar Center, LLC | IPP | Mason Dixon Solar Center | MD | 61797 | PV | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2019 | 12 | 12341 | MidAmerican Energy Co | Electric Utility | Orient Wind Farm | IA | 61077 | 1 | 482.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 482.0 |
| 2019 | 12 | 12341 | MidAmerican Energy Co | Electric Utility | Plum Creek Wind | IA | 61078 | 1 | 500.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 500.0 |
| 2019 | 12 | 60929 | Mineral Point Energy LLC | IPP | Mineral Point Energy | PA | 61300 | GEN1 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60929 | Mineral Point Energy LLC | IPP | Mineral Point Energy | PA | 61300 | GEN2 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60929 | Mineral Point Energy LLC | IPP | Mineral Point Energy | PA | 61300 | GEN3 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60929 | Mineral Point Energy LLC | IPP | Mineral Point Energy | PA | 61300 | GEN4 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60929 | Mineral Point Energy LLC | IPP | Mineral Point Energy | PA | 61300 | GEN5 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60952 | Mt. Jackson Solar LLC | IPP | Mt. Jackson Solar | VA | 61318 | SOLAR | 15.7 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 15.7 |
| 2019 | 12 | 60442 | New Colony Wind LLC | IPP | New Colony Wind Project | MT | 60718 | WT1 | 23.1 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 23.1 |
| 2019 | 12 | 56622 | NextEra Energy Resources | IPP | Shaw Creek Solar, LLC | SC | 61790 | SHAWC | 74.9 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 74.9 |
| 2019 | 12 | 58653 | Oxbow Creek Energy LLC | IPP | Oxbow Creek | PA | 58714 | 1 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 58653 | Oxbow Creek Energy LLC | IPP | Oxbow Creek | PA | 58714 | 2 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 58653 | Oxbow Creek Energy LLC | IPP | Oxbow Creek | PA | 58714 | 3 | 6.8 | Natural Gas Internal Combustion Engine | NG | IC | (T) Regulatory approvals received. Not under construction | 7.0 |
| 2019 | 12 | 14354 | PacifiCorp | Electric Utility | Blundell | UT | 299 | 3 | 35.0 | Geothermal | GEO | ST | (P) Planned for installation, but regulatory approvals not initiated | 30.0 |
| 2019 | 12 | 59771 | Pecan Solar LLC | IPP | Pecan Solar | NC | 60030 | PECAN | 74.9 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 74.9 |
| 2019 | 12 | 60982 | RE Maplewood LLC | IPP | RE Maplewood | TX | 61346 | PV1 | 100.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 100.0 |
| 2019 | 12 | 60982 | RE Maplewood LLC | IPP | RE Maplewood | TX | 61346 | PV2 | 100.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 100.0 |
| 2019 | 12 | 60982 | RE Maplewood LLC | IPP | RE Maplewood | TX | 61346 | PV3 | 100.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 100.0 |
| 2019 | 12 | 60646 | Reading Wind Energy, LLC | IPP | Reading Wind Project | KS | 60999 | READW | 200.1 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.1 |
| 2019 | 12 | 60930 | Red Glen Energy LLC | IPP | Red Glen Energy | PA | 61306 | GEN1 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60930 | Red Glen Energy LLC | IPP | Red Glen Energy | PA | 61306 | GEN2 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60930 | Red Glen Energy LLC | IPP | Red Glen Energy | PA | 61306 | GEN3 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60930 | Red Glen Energy LLC | IPP | Red Glen Energy | PA | 61306 | GEN4 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60930 | Red Glen Energy LLC | IPP | Red Glen Energy | PA | 61306 | GEN5 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60897 | Salinas Valley Solid Waste Authority | IPP | Crazy Horse Solar Project | CA | 61285 | PV1 | 2.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 2.0 |
| 2019 | 12 | 16609 | San Diego Gas & Electric Co | Electric Utility | Top Gun Energy Storage | CA | 61366 | TGES | 10.0 | Batteries | MWH | BA | (P) Planned for installation, but regulatory approvals not initiated | 10.0 |
| 2019 | 12 | 61321 | Seabrook Solar, LLC | IPP | Seabrook Solar | SC | 61701 | GEN1 | 70.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 72.5 |
| 2019 | 12 | 60387 | Skylar Resources, LP | IPP | Townsite Solar Project | NV | 60654 | GEN01 | 160.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 180.0 |
| 2019 | 12 | 60523 | Springfield Project Development LLC | IPP | Homestead Wind LLC | IL | 60871 | HOMES | 50.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2019 | 12 | 60931 | Stourbridge Energy LLC | IPP | Stourbridge Energy | PA | 61301 | GEN1 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60931 | Stourbridge Energy LLC | IPP | Stourbridge Energy | PA | 61301 | GEN2 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60931 | Stourbridge Energy LLC | IPP | Stourbridge Energy | PA | 61301 | GEN3 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60931 | Stourbridge Energy LLC | IPP | Stourbridge Energy | PA | 61301 | GEN4 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60931 | Stourbridge Energy LLC | IPP | Stourbridge Energy | PA | 61301 | GEN5 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 18454 | Tampa Electric Co | Electric Utility | Wimauma Solar | FL | 61667 | 1 | 74.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 74.5 |
| 2019 | 12 | 59056 | Tri Global Energy, LLC | IPP | Cone Renewable Energy Project, LLC | TX | 60272 | WT1 | 300.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 300.0 |
| 2019 | 12 | 59056 | Tri Global Energy, LLC | IPP | Easter | TX | 59971 | ESTR1 | 300.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 300.0 |
| 2019 | 12 | 58796 | Trishe Wind Colorado | IPP | Trishe Wind Colorado | CO | 58928 | 1 | 30.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 30.0 |
| 2019 | 12 | 56633 | Trishe Wind Minnesota | IPP | Trishe Wind Minnesota | MN | 57255 | 1 | 40.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 40.0 |
| 2019 | 12 | 59098 | Trishe Wind Ohio LLC | IPP | Trishe Wind Ohio LLC | OH | 59296 | NWOH2 | 150.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 150.0 |
| 2019 | 12 | 58153 | US Magnesium | Industrial | US Magnesium | UT | 58191 | GT4 | 24.0 | Natural Gas Fired Combustion Turbine | NG | GT | (V) Under construction, more than 50 percent complete | 30.0 |
| 2019 | 12 | 60597 | Violet Solar, LLC | IPP | Violet Solar | NC | 60961 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 5.0 |
| 2019 | 12 | 60694 | Washburn Wind Energy LLC | IPP | Washburn Wind Farm | IA | 61071 | WASH | 70.0 | Onshore Wind Turbine | WND | WT | (U) Under construction, less than or equal to 50 percent complete | 70.0 |
| 2019 | 12 | 60599 | Washington Solar, LLC | IPP | Washington Solar | NC | 60948 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 5.0 |
| 2019 | 12 | 60932 | Wrighter Energy LLC | IPP | Wrighter Energy | PA | 61302 | GEN1 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60932 | Wrighter Energy LLC | IPP | Wrighter Energy | PA | 61302 | GEN2 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60932 | Wrighter Energy LLC | IPP | Wrighter Energy | PA | 61302 | GEN3 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60932 | Wrighter Energy LLC | IPP | Wrighter Energy | PA | 61302 | GEN4 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2019 | 12 | 60932 | Wrighter Energy LLC | IPP | Wrighter Energy | PA | 61302 | GEN5 | 4.4 | Natural Gas Internal Combustion Engine | NG | IC | (P) Planned for installation, but regulatory approvals not initiated | 4.4 |
| 2020 | 1 | 60278 | 64KT 8me LLC | IPP | Springbok 3 Solar Farm | CA | 60491 | SB3SF | 90.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 90.0 |
| 2020 | 1 | 55918 | Acciona Wind Energy USA LLC | IPP | Palmas Wind, LLC | TX | 61773 | PW | 142.6 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 144.9 |
| 2020 | 1 | 60667 | Aksamit Energy Development | IPP | Monument Road | NE | 61033 | MR001 | 66.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 66.0 |
| 2020 | 1 | 59365 | Capital Power Corporation | IPP | Salt Springs Wind Farm | KS | 60807 | WT | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2020 | 1 | 56534 | Cricket Valley Energy Center LLC | IPP | Cricket Valley Energy | NY | 57185 | U001 | 345.0 | Natural Gas Fired Combined Cycle | NG | CC | (T) Regulatory approvals received. Not under construction | 390.0 |
| 2020 | 1 | 61060 | Cypress Creek Renewables | IPP | Thigpen Farms Solar, LLC | NC | 60850 | PV1 | 5.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 5.0 |
| 2020 | 1 | 13478 | Entergy New Orleans, LLC | Electric Utility | New Orleans Power | LA | 60928 | 1 | 250.0 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 250.0 |
| 2020 | 1 | 56615 | First Solar Project Development | IPP | White Wing Solar | AZ | 60572 | GEN01 | 200.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 200.0 |
| 2020 | 1 | 61429 | Harvest Wind Energy, LLC | IPP | Harvest Wind Energy Project | IN | 61823 | 1 | 600.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 600.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2020 | 1 | 59434 | Mattawoman Energy, LLC | IPP | Mattawoman Energy Center | MD | 59662 | CGT11 | 286.0 | Natural Gas Fired Combined Cycle | NG | CC | (P) Planned for installation, but regulatory approvals not initiated | 286.0 |
| 2020 | 1 | 59434 | Mattawoman Energy, LLC | IPP | Mattawoman Energy Center | MD | 59662 | CGT12 | 286.0 | Natural Gas Fired Combined Cycle | NG | CC | (P) Planned for installation, but regulatory approvals not initiated | 286.0 |
| 2020 | 1 | 59434 | Mattawoman Energy, LLC | IPP | Mattawoman Energy Center | MD | 59662 | STG11 | 436.0 | Natural Gas Fired Combined Cycle | NG | CC | (P) Planned for installation, but regulatory approvals not initiated | 436.0 |
| 2020 | 1 | 61430 | Summit Lake Wind, LLC | IPP | Summit Lake Wind Energy Project | MI | 61812 | 1 | 120.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 120.0 |
| 2020 | 1 | 18454 | Tampa Electric Co | Electric Utility | Alafia Solar | FL | 61653 | PV1 | 50.3 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2020 | 1 | 59056 | Tri Global Energy, LLC | IPP | Changing Winds | TX | 59243 | CHAN1 | 288.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 288.0 |
| 2020 | 1 | 20323 | Wellhead Services Inc | IPP | Stanton Energy Reliability Center | CA | 60698 | GT1 | 45.9 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 60.5 |
| 2020 | 1 | 20323 | Wellhead Services Inc | IPP | Stanton Energy Reliability Center | CA | 60698 | GT2 | 45.9 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 60.5 |
| 2020 | 1 | 20856 | Wisconsin Power & Light Co | Electric Utility | Riverside Energy Center | WI | 55641 | CTG3 | 225.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 232.9 |
| 2020 | 1 | 20856 | Wisconsin Power & Light Co | Electric Utility | Riverside Energy Center | WI | 55641 | CTG4 | 225.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 232.9 |
| 2020 | 1 | 20856 | Wisconsin Power & Light Co | Electric Utility | Riverside Energy Center | WI | 55641 | PV1 | 2.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 2.0 |
| 2020 | 1 | 20856 | Wisconsin Power & Light Co | Electric Utility | Riverside Energy Center | WI | 55641 | STG2 | 250.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 260.1 |
| 2020 | 2 | 56534 | Cricket Valley Energy Center LLC | IPP | Cricket Valley Energy | NY | 57185 | U002 | 345.0 | Natural Gas Fired Combined Cycle | NG | CC | (T) Regulatory approvals received. Not under construction | 390.0 |
| 2020 | 3 | 23693 | AES Huntington Beach LLC | IPP | AES Huntington Beach LLC | CA | 335 | 1A | 226.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 231.0 |
| 2020 | 3 | 23693 | AES Huntington Beach LLC | IPP | AES Huntington Beach LLC | CA | 335 | 1B | 226.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 231.0 |
| 2020 | 3 | 23693 | AES Huntington Beach LLC | IPP | AES Huntington Beach LLC | CA | 335 | 1S | 192.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 231.0 |
| 2020 | 3 | 60350 | CPV Fairview, LLC | IPP | CPV Fairview Energy Center | PA | 60589 | GEN1 | 1,100.0 | Natural Gas Fired Combined Cycle | NG | CC | (U) Under construction, less than or equal to 50 percent complete | 1,100.0 |
| 2020 | 3 | 59365 | Capital Power Corporation | IPP | Cardinal Point LLC | IL | 59902 | GEN | 150.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 150.0 |
| 2020 | 3 | 56534 | Cricket Valley Energy Center LLC | IPP | Cricket Valley Energy | NY | 57185 | U003 | 345.0 | Natural Gas Fired Combined Cycle | NG | CC | (T) Regulatory approvals received. Not under construction | 390.0 |
| 2020 | 3 | 61251 | LA3 West Baton Rouge, L.L.C. | IPP | LA3 West Baton Rouge Solar Facility | LA | 61646 | LA3WB | 50.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2020 | 3 | 60971 | NYC ENERGY LLC | IPP | NISA Electric Generation Project | NY | 61331 | GEN1 | 59.7 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 70.5 |
| 2020 | 3 | 60971 | NYC ENERGY LLC | IPP | NISA Electric Generation Project | NY | 61331 | STG1 | 20.2 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 22.0 |
| 2020 | 3 | 59056 | Tri Global Energy, LLC | IPP | Crosby County Wind Farm, LLC | TX | 60273 | WT1 | 120.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 120.0 |
| 2020 | 4 | 60796 | 91MC 8me LLC | IPP | Peak Valley Solar Farm | CA | 61167 | 91MC8 | 200.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2020 | 4 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 1A | 226.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 231.0 |
| 2020 | 4 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 1B | 226.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 231.0 |
| 2020 | 4 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 1S | 192.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 231.0 |
| 2020 | 4 | 60167 | Concord Blue Eagar, LLC | IPP | Concord Blue Eagar, LLC | AZ | 60374 | CB001 | 0.6 | Other Waste Biomass | OBG | IC | (L) Regulatory approvals pending. Not under construction | 0.6 |
| 2020 | 4 | 60167 | Concord Blue Eagar, LLC | IPP | Concord Blue Eagar, LLC | AZ | 60374 | CB002 | 0.6 | Other Waste Biomass | OBG | IC | (L) Regulatory approvals pending. Not under construction | 0.6 |
| 2020 | 4 | 58695 | Coronal Development Services | IPP | Casper Solar Center | MD | 61320 | CSPSC | 36.7 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 36.7 |
| 2020 | 4 | 58798 | Shell Chemical Appalachia LLC | Industrial | Shell Chemical Appalachia LLC | PA | 58933 | GTG1 | 41.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 41.0 |
| 2020 | 5 | 60383 | Henrietta D Energy Storage LLC | IPP | Henrietta D Energy Storage LLC | CA | 60641 | HDES1 | 10.0 | Batteries | MWH | BA | (L) Regulatory approvals pending. Not under construction | 10.0 |
| 2020 | 5 | 55768 | RC Cape May Holdings LLC | IPP | B L England | NJ | 2378 | 4 | 282.0 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 321.0 |
| 2020 | 5 | 58798 | Shell Chemical Appalachia LLC | Industrial | Shell Chemical Appalachia LLC | PA | 58933 | GTG2 | 41.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 41.0 |
| 2020 | 5 | 58798 | Shell Chemical Appalachia LLC | Industrial | Shell Chemical Appalachia LLC | PA | 58933 | GTG3 | 41.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 41.0 |
| 2020 | 6 | 60799 | 33UI 8me LLC | IPP | Long Ridge Solar Farm | UT | 61170 | 33UI8 | 300.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 300.0 |
| 2020 | 6 | 59272 | 41MB 8me, LLC | IPP | Borden Solar Farm | CA | 59531 | BRDN | 50.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 50.0 |
| 2020 | 6 | 60798 | 69SV 8me LLC | IPP | Eland 2 Solar Farm | CA | 61169 | 69SV8 | 200.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2020 | 6 | 59844 | Blythe Solar III, LLC | IPP | Blythe Solar III, LLC | CA | 60094 | BLCK1 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 6 | 59845 | Blythe Solar IV, LLC | IPP | Blythe Solar IV, LLC | CA | 60095 | BLCK1 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 6 | 60270 | Clark Canyon Hydro, LLC | IPP | Clark Canyon Hydro-Electric Facility | MT | 60483 | FRNS1 | 2.4 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 2.4 |
| 2020 | 6 | 60270 | Clark Canyon Hydro, LLC | IPP | Clark Canyon Hydro-Electric Facility | MT | 60483 | FRNS2 | 2.4 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 2.4 |
| 2020 | 6 | 49846 | Covanta Honolulu Resource Recovery | Commercial | H Power | HI | 10334 | PV1 | 2.1 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 2.1 |
| 2020 | 6 | 59966 | ESC Harrison County Power | IPP | ESC Harrison County Power | WV | 60206 | HCCA1 | 205.4 | Natural Gas Fired Combined Cycle | NG | CA | (P) Planned for installation, but regulatory approvals not initiated | 207.4 |
| 2020 | 6 | 59966 | ESC Harrison County Power | IPP | ESC Harrison County Power | WV | 60206 | HCCT1 | 319.1 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 371.5 |
| 2020 | 6 | 11241 | Entergy Louisiana LLC | Electric Utility | Lake Charles Power | LA | 60927 | 1A | 250.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 250.0 |
| 2020 | 6 | 11241 | Entergy Louisiana LLC | Electric Utility | Lake Charles Power | LA | 60927 | 1B | 250.0 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 250.0 |
| 2020 | 6 | 11241 | Entergy Louisiana LLC | Electric Utility | Lake Charles Power | LA | 60927 | 1C | 500.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 500.0 |
| 2020 | 6 | 56615 | First Solar Project Development | IPP | Morada del Sol, LLC | TX | 61049 | PV1 | 239.3 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 247.0 |
| 2020 | 6 | 7140 | Georgia Power Co | Electric Utility | Vogtle | GA | 649 | 4 | 1,100.0 | Nuclear | NUC | ST | (U) Under construction, less than or equal to 50 percent complete | 1,100.0 |
| 2020 | 6 | 60050 | Halyard Energy Henderson, LLC | IPP | Halyard Henderson Energy Center | TX | 60268 | TBN1 | 210.0 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 232.0 |
| 2020 | 6 | 60050 | Halyard Energy Henderson, LLC | IPP | Halyard Henderson Energy Center | TX | 60268 | TBN2 | 210.0 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 232.0 |
| 2020 | 6 | 60659 | Hickory Run Energy, LLC | IPP | Hickory Run Energy Station | PA | 61028 | CTG1 | 283.0 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 311.0 |
| 2020 | 6 | 60659 | Hickory Run Energy, LLC | IPP | Hickory Run Energy Station | PA | 61028 | CTG2 | 283.0 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 311.0 |
| 2020 | 6 | 60659 | Hickory Run Energy, LLC | IPP | Hickory Run Energy Station | PA | 61028 | STG1 | 437.0 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 450.0 |
| 2020 | 6 | 60986 | Imperial Valley Solar 2, LLC | IPP | Mount Signal Solar 2 | CA | 61353 | IVS2 | 153.5 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 153.5 |
| 2020 | 6 | 56167 | Imperial Valley Solar, LLC | IPP | Imperial Valley Solar, LLC | CA | 56917 | 2 | 400.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 400.0 |
| 2020 | 6 | 55983 | Luminant Generation Company LLC | IPP | DeCordova Steam Electric Station | TX | 8063 | CT5 | 207.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 235.5 |
| 2020 | 6 | 55983 | Luminant Generation Company LLC | IPP | DeCordova Steam Electric Station | TX | 8063 | CT6 | 207.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 235.5 |
| 2020 | 6 | 55983 | Luminant Generation Company LLC | IPP | Lake Creek | TX | 3502 | CT1 | 207.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 235.5 |
| 2020 | 6 | 55983 | Luminant Generation Company LLC | IPP | Tradinghouse | TX | 3506 | CT1 | 207.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 235.5 |
| 2020 | 6 | 55983 | Luminant Generation Company LLC | IPP | Tradinghouse | TX | 3506 | CT2 | 207.0 | Natural Gas Fired Combustion Turbine | NG | GT | (U) Under construction, less than or equal to 50 percent complete | 235.5 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Clear Springs Energy Center | TX | 59615 | CTG-1 | 178.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Clear Springs Energy Center | TX | 59615 | CTG-2 | 177.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Clear Springs Energy Center | TX | 59615 | CTG-3 | 177.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Union Valley Energy Center | TX | 59616 | CTG-1 | 178.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Union Valley Energy Center | TX | 59616 | CTG-2 | 178.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Union Valley Energy Center | TX | 59616 | CTG-3 | 178.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Van Alstyne Energy Center | TX | 59617 | CTG-1 | 177.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Van Alstyne Energy Center | TX | 59617 | CTG-2 | 177.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 59357 | Navasota Energy Generation Holdings | IPP | Van Alstyne Energy Center | TX | 59617 | CTG-3 | 177.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 183.0 |
| 2020 | 6 | 60958 | Ohio River Partners Shareholder LLC | IPP | Hannibal Port Power Project | OH | 61322 | HPPP1 | 485.0 | Natural Gas Fired Combined Cycle | NG | CC | (P) Planned for installation, but regulatory approvals not initiated | 485.0 |
| 2020 | 6 | 59489 | Perennial-Wind Chaser LLC | IPP | Perennial Wind Chaser Station | OR | 59721 | GT1 | 98.7 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 106.0 |
| 2020 | 6 | 59489 | Perennial-Wind Chaser LLC | IPP | Perennial Wind Chaser Station | OR | 59721 | GT2 | 98.7 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 106.0 |
| 2020 | 6 | 59489 | Perennial-Wind Chaser LLC | IPP | Perennial Wind Chaser Station | OR | 59721 | GT3 | 98.7 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 106.0 |
| 2020 | 6 | 59489 | Perennial-Wind Chaser LLC | IPP | Perennial Wind Chaser Station | OR | 59721 | GT4 | 98.7 | Natural Gas Fired Combustion Turbine | NG | GT | (T) Regulatory approvals received. Not under construction | 106.0 |
| 2020 | 6 | 54866 | Robinson Power Company LLC | IPP | Robinson Power Company LLC | PA | 56453 | CTG1 | 950.0 | Natural Gas Fired Combined Cycle | NG | CC | (L) Regulatory approvals pending. Not under construction | 1,025.0 |
| 2020 | 6 | 18414 | TES Filer City Station LP | Electric CHP | TES Filer City Station | MI | 50835 | GEN2 | 228.0 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 253.0 |
| 2020 | 7 | 14624 | PUD No 2 of Grant County | Electric Utility | Wanapum | WA | 3888 | 4A | 122.0 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 122.0 |
| 2020 | 7 | 59137 | Palmer Renewable Energy | IPP | Palmer Renewable Energy | MA | 59336 | PRE | 42.0 | Wood/Wood Waste Biomass | WDS | ST | (T) Regulatory approvals received. Not under construction | 42.0 |
| 2020 | 8 | 59844 | Blythe Solar III, LLC | IPP | Blythe Solar III, LLC | CA | 60094 | BLCK2 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 8 | 59845 | Blythe Solar IV, LLC | IPP | Blythe Solar IV, LLC | CA | 60095 | BLCK2 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 8 | 58798 | Shell Chemical Appalachia LLC | Industrial | Shell Chemical Appalachia LLC | PA | 58933 | STG1 | 75.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 75.0 |
| 2020 | 8 | 58798 | Shell Chemical Appalachia LLC | Industrial | Shell Chemical Appalachia LLC | PA | 58933 | STG2 | 75.0 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 75.0 |
| 2020 | 9 | 7277 | Calpine Corporation | IPP | Buckeye Geothermal Power Plant | CA | 57180 | 1 | 49.9 | Geothermal | GEO | ST | (L) Regulatory approvals pending. Not under construction | 56.9 |
| 2020 | 9 | 7277 | Calpine Corporation | IPP | Wild Horse Power Plant | CA | 57181 | 1 | 40.0 | Geothermal | GEO | ST | (L) Regulatory approvals pending. Not under construction | 48.0 |
| 2020 | 9 | 56615 | First Solar Project Development | IPP | Little Bear Solar 1, LLC | CA | 59870 | GEN01 | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |
| 2020 | 9 | 56615 | First Solar Project Development | IPP | Little Bear Solar 2, LLC | CA | 59885 | GEN01 | 20.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 20.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2020 | 9 | 60388 | Mission Rock Energy Center, LLC | IPP | Mission Rock Energy Center | CA | 60650 | GT1 | 275.0 | Natural Gas Fired Combustion Turbine | NG | GT | (L) Regulatory approvals pending. Not under construction | 275.0 |
| 2020 | 9 | 61215 | Techren Solar LLC | IPP | Techren | NV | 61611 | TECH3 | 25.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 25.0 |
| 2020 | 9 | 61215 | Techren Solar LLC | IPP | Techren | NV | 61611 | TECH4 | 25.0 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 25.0 |
| 2020 | 10 | 59844 | Blythe Solar III, LLC | IPP | Blythe Solar III, LLC | CA | 60094 | BLCK3 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 10 | 59845 | Blythe Solar IV, LLC | IPP | Blythe Solar IV, LLC | CA | 60095 | BLCK3 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 10 | 5580 | East Kentucky Power Coop, Inc | Electric Utility | Green Valley LFGTE | KY | 56278 | 4 | 0.8 | Landfill Gas | LFG | IC | (P) Planned for installation, but regulatory approvals not initiated | 0.8 |
| 2020 | 10 | 58901 | Hydro Green Energy | IPP | Braddock Lock and Dam | PA | 59091 | GEN1 | 5.3 | Conventional Hydroelectric | WAT | HY | (OT) Other | 5.3 |
| 2020 | 10 | 60569 | Lincoln Land Wind, LLC | IPP | Lincoln Land Wind | IL | 58925 | SAN1 | 30.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 30.0 |
| 2020 | 10 | 60568 | Sugar Creek Wind One LLC | IPP | Sugar Creek Wind One LLC | IL | 58924 | SUG1 | 175.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 175.0 |
| 2020 | 11 | 58804 | Lake Erie Energy Development Corp | IPP | Icebreaker Offshore Wind Farm | OH | 58941 | WTG1 | 3.0 | Offshore Wind Turbine | WND | WS | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2020 | 11 | 58804 | Lake Erie Energy Development Corp | IPP | Icebreaker Offshore Wind Farm | OH | 58941 | WTG2 | 3.0 | Offshore Wind Turbine | WND | WS | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2020 | 11 | 58804 | Lake Erie Energy Development Corp | IPP | Icebreaker Offshore Wind Farm | OH | 58941 | WTG3 | 3.0 | Offshore Wind Turbine | WND | WS | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2020 | 11 | 58804 | Lake Erie Energy Development Corp | IPP | Icebreaker Offshore Wind Farm | OH | 58941 | WTG4 | 3.0 | Offshore Wind Turbine | WND | WS | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2020 | 11 | 58804 | Lake Erie Energy Development Corp | IPP | Icebreaker Offshore Wind Farm | OH | 58941 | WTG5 | 3.0 | Offshore Wind Turbine | WND | WS | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2020 | 11 | 58804 | Lake Erie Energy Development Corp | IPP | Icebreaker Offshore Wind Farm | OH | 58941 | WTG6 | 3.0 | Offshore Wind Turbine | WND | WS | (L) Regulatory approvals pending. Not under construction | 3.0 |
| 2020 | 11 | 61331 | Popular Camp Wind Farm LLC | IPP | Poplar Camp Wind Farm | VA | 61111 | PC1 | 72.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 72.0 |
| 2020 | 12 | 15399 | Avangrid Renewables LLC | IPP | Roaring Brook, LLC | NY | 61041 | WT1 | 78.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 78.0 |
| 2020 | 12 | 60560 | Big Blue Wind Farm, LLC (TX) | IPP | Big Blue River Wind Farm | IN | 60907 | WT1 | 200.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2020 | 12 | 61257 | Blazing Star 2 LLC | IPP | Blazing Star 2 Wind Farm | MN | 61650 | BLZS2 | 200.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 200.0 |
| 2020 | 12 | 61030 | Bluegrove Wind, LLC | IPP | Bluegrove Wind | TX | 61400 | BLUGR | 100.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 100.0 |
| 2020 | 12 | 59844 | Blythe Solar III, LLC | IPP | Blythe Solar III, LLC | CA | 60094 | BLCK4 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 12 | 59845 | Blythe Solar IV, LLC | IPP | Blythe Solar IV, LLC | CA | 60095 | BLCK4 | 31.2 | Solar Photovoltaic | SUN | PV | (T) Regulatory approvals received. Not under construction | 31.2 |
| 2020 | 12 | 61031 | Byers Wind, LLC | IPP | Byers Wind | TX | 61401 | BYERS | 200.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 200.0 |
| 2020 | 12 | 59365 | Capital Power Corporation | IPP | Nolin Hills Wind, LLC | OR | 60070 | GEN | 350.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 350.0 |
| 2020 | 12 | 59365 | Capital Power Corporation | IPP | Tisch Mills Wind | WI | 60674 | TISCH | 150.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 150.0 |
| 2020 | 12 | 59432 | Clear Creek Power | IPP | Highland Park Project | CO | 59659 | HPWT | 181.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 181.0 |
| 2020 | 12 | 56872 | Contra Costa Generating Station LLC | IPP | Oakley Generating Station | CA | 57552 | CT1 | 197.3 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 222.3 |
| 2020 | 12 | 56872 | Contra Costa Generating Station LLC | IPP | Oakley Generating Station | CA | 57552 | CT2 | 197.3 | Natural Gas Fired Combined Cycle | NG | CT | (U) Under construction, less than or equal to 50 percent complete | 222.3 |
| 2020 | 12 | 56872 | Contra Costa Generating Station LLC | IPP | Oakley Generating Station | CA | 57552 | ST | 191.3 | Natural Gas Fired Combined Cycle | NG | CA | (U) Under construction, less than or equal to 50 percent complete | 227.7 |
| 2020 | 12 | 58672 | Everpower Wind Holdings Inc | IPP | Coyote Crest Wind Farm | WA | 58778 | 1 | 127.5 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 127.5 |
| 2020 | 12 | 56615 | First Solar Project Development | IPP | Aiya Solar Project | NV | 59869 | GEN01 | 100.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 100.0 |
| 2020 | 12 | 56615 | First Solar Project Development | IPP | American Kings Solar, LLC | CA | 60777 | GEN01 | 123.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 123.0 |
| 2020 | 12 | 56615 | First Solar Project Development | IPP | Snow Mountain Solar, LLC | NV | 59935 | GEN01 | 101.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 100.0 |
| 2020 | 12 | 56615 | First Solar Project Development | IPP | Willow Spring Solar 3, LLC | CA | 60325 | GEN01 | 50.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 50.0 |
| 2020 | 12 | 60040 | Hale Wind Energy | IPP | Hale Community Wind Farm | TX | 59247 | HALE2 | 240.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 240.0 |
| 2020 | 12 | 11208 | Los Angeles Department of Water & Power | Electric Utility | Scattergood | CA | 404 | 8 | 218.0 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 230.0 |
| 2020 | 12 | 11208 | Los Angeles Department of Water & Power | Electric Utility | Scattergood | CA | 404 | 9 | 110.0 | Natural Gas Fired Combined Cycle | NG | CA | (P) Planned for installation, but regulatory approvals not initiated | 116.0 |
| 2020 | 12 | 61010 | Ord Mountain Solar, LLC | IPP | Ord Mountain Solar | CA | 61372 | ORDMT | 60.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 60.0 |
| 2020 | 12 | 56545 | Pattern Operators LP | IPP | Summit Ridge I Wind Farm | OR | 58894 | SRWF | 192.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 192.0 |
| 2020 | 12 | 58842 | Power Company of Wyoming LLC | IPP | Chokecherry and Sierra Madre Wind | WY | 58987 | I-A | 687.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 687.0 |
| 2020 | 12 | 61069 | RE Gaskell West LLC | IPP | RE Gaskell West 2 LLC | CA | 61446 | PV2 | 45.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 45.0 |
| 2020 | 12 | 61069 | RE Gaskell West LLC | IPP | RE Gaskell West 3 LLC | CA | 61447 | PV3 | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2020 | 12 | 61069 | RE Gaskell West LLC | IPP | RE Gaskell West 4 LLC | CA | 61448 | PV4 | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2020 | 12 | 61069 | RE Gaskell West LLC | IPP | RE Gaskell West 5 LLC | CA | 61449 | PV5 | 20.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 20.0 |
| 2020 | 12 | 60982 | RE Maplewood LLC | IPP | RE Maplewood | TX | 61346 | PV4 | 100.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 100.0 |
| 2020 | 12 | 60982 | RE Maplewood LLC | IPP | RE Maplewood | TX | 61346 | PV5 | 100.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 100.0 |
| 2020 | 12 | 2782 | Terra-Gen Operating Company | IPP | Dixie Valley Power Partnership | NV | 10681 | GEN1 | 25.0 | Geothermal | GEO | ST | (P) Planned for installation, but regulatory approvals not initiated | 28.0 |
| 2020 | 12 | 19316 | Two Elk Generation Partners LP | IPP | Two Elk Generating Station | WY | 55360 | GEN1 | 275.0 | Conventional Steam Coal | WC | ST | (U) Under construction, less than or equal to 50 percent complete | 320.0 |
| 2021 | 1 | 61033 | Boswell Wind Project I, LLC | IPP | Boswell Wind I | WY | 61393 | BOSW1 | 80.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 80.0 |
| 2021 | 1 | 61034 | Boswell Wind Project II, LLC | IPP | Boswell Wind II | WY | 61394 | BOSW2 | 80.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 80.0 |
| 2021 | 1 | 61035 | Boswell Wind Project III, LLC | IPP | Boswell Wind III | WY | 61395 | BOSW3 | 80.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 80.0 |
| 2021 | 1 | 61036 | Boswell Wind Project IV, LLC | IPP | Boswell Wind IV | WY | 61396 | BOSW4 | 80.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 80.0 |
| 2021 | 1 | 58765 | FGE Texas I LLC | IPP | FGE Texas I | TX | 58931 | CA1 | 249.9 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 265.2 |
| 2021 | 1 | 58765 | FGE Texas I LLC | IPP | FGE Texas I | TX | 58931 | GT1 | 226.7 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 238.9 |
| 2021 | 1 | 58765 | FGE Texas I LLC | IPP | FGE Texas I | TX | 58931 | GT2 | 226.7 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 238.9 |
| 2021 | 1 | 58702 | Fluence | IPP | AES ES ALAMITOS, LLC | CA | 61204 | ALMTS | 100.0 | Batteries | MWH | BA | (L) Regulatory approvals pending. Not under construction | 100.0 |
| 2021 | 1 | 60131 | South Field Energy, LLC | IPP | South Field Energy | OH | 60356 | SFECC | 1,060.0 | Natural Gas Fired Combined Cycle | NG | CC | (T) Regulatory approvals received. Not under construction | 1,105.0 |
| 2021 | 1 | 18454 | Tampa Electric Co | Electric Utility | Lake Hancock Solar | FL | 61657 | PV1 | 49.6 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2021 | 1 | 19876 | Virginia Electric & Power Co | Electric Utility | Coastal Virginia Offshore Wind (CVOW) | VA | 59693 | OSW1 | 12.0 | Offshore Wind Turbine | WND | WS | (L) Regulatory approvals pending. Not under construction | 12.0 |
| 2021 | 2 | 59686 | Coronado Power Ventures LLC | IPP | Pinecrest Energy Center | TX | 59923 | CTG-1 | 229.0 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 232.0 |
| 2021 | 2 | 59686 | Coronado Power Ventures LLC | IPP | Pinecrest Energy Center | TX | 59923 | CTG-2 | 229.0 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 232.0 |
| 2021 | 2 | 59686 | Coronado Power Ventures LLC | IPP | Pinecrest Energy Center | TX | 59923 | STG | 289.0 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 289.0 |
| 2021 | 3 | 56615 | First Solar Project Development | IPP | Desert Quartzite | CA | 59871 | GEN01 | 450.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 580.0 |
| 2021 | 3 | 16609 | San Diego Gas & Electric Co | Electric Utility | Fallbrook Energy Storage | CA | 61365 | FBES | 40.0 | Batteries | MWH | BA | (P) Planned for installation, but regulatory approvals not initiated | 40.0 |
| 2021 | 3 | 58846 | Southeast Renewable Fuels, LLC | Industrial | SRF Sorghum to Ethanol Advanced Biorefin | FL | 58997 | G1001 | 12.0 | Other Waste Biomass | OBS | ST | (U) Under construction, less than or equal to 50 percent complete | 15.0 |
| 2021 | 4 | 14232 | Otter Tail Power Co | Electric Utility | Astoria Station | SD | 61144 | 1 | 260.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 260.0 |
| 2021 | 4 | 56789 | TBE Montgomery LLC | IPP | TBE-Montgomery LLC | NY | 57472 | CTG | 11.6 | Other Waste Biomass | OBG | CT | (U) Under construction, less than or equal to 50 percent complete | 12.0 |
| 2021 | 4 | 56789 | TBE Montgomery LLC | IPP | TBE-Montgomery LLC | NY | 57472 | STG | 7.4 | Other Waste Biomass | OBG | CA | (U) Under construction, less than or equal to 50 percent complete | 9.0 |
| 2021 | 5 | 14605 | City of Peabody - (MA) | Electric Utility | Waters River | MA | 1678 | 3 | 55.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 60.0 |
| 2021 | 5 | 59677 | Middlesex Energy Center LLC | IPP | Middlesex Energy Center LLC | NJ | 59909 | CT001 | 560.0 | Natural Gas Fired Combined Cycle | NG | CC | (P) Planned for installation, but regulatory approvals not initiated | 560.0 |
| 2021 | 6 | 59964 | ESC Brooke County Power I | IPP | ESC Brooke County Power I | WV | 60202 | BCCA1 | 261.2 | Natural Gas Fired Combined Cycle | NG | CA | (P) Planned for installation, but regulatory approvals not initiated | 280.5 |
| 2021 | 6 | 59964 | ESC Brooke County Power I | IPP | ESC Brooke County Power I | WV | 60202 | BCCT1 | 252.3 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 280.5 |
| 2021 | 6 | 59964 | ESC Brooke County Power I | IPP | ESC Brooke County Power I | WV | 60202 | BCCT2 | 252.3 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 280.5 |
| 2021 | 6 | 59965 | ESC Tioga County Power | IPP | ESC Tioga County Power | PA | 60205 | TCCA1 | 302.0 | Natural Gas Fired Combined Cycle | NG | CA | (P) Planned for installation, but regulatory approvals not initiated | 331.5 |
| 2021 | 6 | 59965 | ESC Tioga County Power | IPP | ESC Tioga County Power | PA | 60205 | TCCT1 | 253.1 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 280.5 |
| 2021 | 6 | 59965 | ESC Tioga County Power | IPP | ESC Tioga County Power | PA | 60205 | TCCT2 | 253.1 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 280.5 |
| 2021 | 6 | 58597 | Enivromission, Inc | IPP | La Paz Solar Tower | AZ | 58652 | 1 | 200.0 | Solar Thermal without Energy Storage | SUN | OT | (P) Planned for installation, but regulatory approvals not initiated | 200.0 |
| 2021 | 6 | 55937 | Entergy Texas Inc. | Electric Utility | Montgomery County | TX | 60925 | 1A | 250.0 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 250.0 |
| 2021 | 6 | 55937 | Entergy Texas Inc. | Electric Utility | Montgomery County | TX | 60925 | 1B | 250.0 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 250.0 |
| 2021 | 6 | 55937 | Entergy Texas Inc. | Electric Utility | Montgomery County | TX | 60925 | 1C | 500.0 | Natural Gas Fired Combined Cycle | NG | CA | (L) Regulatory approvals pending. Not under construction | 500.0 |
| 2021 | 6 | 56615 | First Solar Project Development | IPP | Portal Ridge Solar A, LLC | CA | 60309 | GEN01 | 18.5 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 18.5 |
| 2021 | 6 | 61395 | Indeck Niles, LLC | IPP | Indeck Niles Energy Center | MI | 55460 | CT1 | 386.8 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 386.8 |
| 2021 | 6 | 61395 | Indeck Niles, LLC | IPP | Indeck Niles Energy Center | MI | 55460 | CT2 | 386.8 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 386.8 |
| 2021 | 6 | 61395 | Indeck Niles, LLC | IPP | Indeck Niles Energy Center | MI | 55460 | ST1 | 397.8 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 397.8 |
| 2021 | 6 | 60836 | NTE Connecticut, LLC | IPP | Killingly Energy Center | CT | 61239 | KEC | 338.9 | Natural Gas Fired Combined Cycle | NG | CT | (P) Planned for installation, but regulatory approvals not initiated | 406.0 |
| 2021 | 6 | 60836 | NTE Connecticut, LLC | IPP | Killingly Energy Center | CT | 61239 | KEC2 | 249.4 | Natural Gas Fired Combined Cycle | NG | CA | (L) Regulatory approvals pending. Not under construction | 297.5 |
| 2021 | 7 | 59686 | Coronado Power Ventures LLC | IPP | La Paloma Energy Center | TX | 59924 | CTG-1 | 211.5 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 230.0 |
| 2021 | 7 | 59686 | Coronado Power Ventures LLC | IPP | La Paloma Energy Center | TX | 59924 | CTG-2 | 211.5 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 230.0 |

**Table 6.5. Planned U.S. Electric Generating Unit Additions**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code | Status | Nameplate Capacity (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2021 | 7 | 59686 | Coronado Power Ventures LLC | IPP | La Paloma Energy Center | TX | 59924 | STG-1 | 300.0 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 311.0 |
| 2021 | 7 | 58766 | FGE Texas II LLC | IPP | FGE Texas II | TX | 58930 | CA1 | 249.9 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 265.2 |
| 2021 | 7 | 58766 | FGE Texas II LLC | IPP | FGE Texas II | TX | 58930 | GT1 | 226.7 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 238.9 |
| 2021 | 7 | 58766 | FGE Texas II LLC | IPP | FGE Texas II | TX | 58930 | GT2 | 226.7 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 238.9 |
| 2021 | 7 | 56615 | First Solar Project Development | IPP | Sun Streams, LLC | AZ | 60827 | GEN01 | 150.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 150.0 |
| 2021 | 9 | 58881 | Apex Bethel Energy Center | IPP | Apex Bethel Energy Center | TX | 59048 | ABEC1 | 158.5 | Natural Gas with Compressed Air Storage | NG | CE | (T) Regulatory approvals received. Not under construction | 158.5 |
| 2021 | 9 | 58881 | Apex Bethel Energy Center | IPP | Apex Bethel Energy Center | TX | 59048 | ABEC2 | 158.5 | Natural Gas with Compressed Air Storage | NG | CE | (T) Regulatory approvals received. Not under construction | 158.5 |
| 2021 | 12 | 60711 | Battle Mountain SP, LLC | IPP | Battle Mountain Solar Project | NV | 61098 | BMSP | 101.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 101.0 |
| 2021 | 12 | 60064 | Clean Path Energy Center, LLC | IPP | Clean Path Energy Center | NM | 60289 | PVGEN | 55.0 | Solar Photovoltaic | SUN | PV | (P) Planned for installation, but regulatory approvals not initiated | 55.0 |
| 2021 | 12 | 59380 | Enel Green Power NA, Inc. | IPP | Pomerado Energy Storage, LLC | CA | 61390 | PMRDO | 3.0 | Batteries | MWH | BA | (P) Planned for installation, but regulatory approvals not initiated | 3.0 |
| 2021 | 12 | 60405 | FDS Coke Plant, LLC | Electric CHP | FDS Co-Generation Facility | OH | 60693 | 1 | 110.0 | Other Gases | OG | ST | (P) Planned for installation, but regulatory approvals not initiated | 135.0 |
| 2021 | 12 | 58378 | Jordan Hydroelectric LTD PTP | IPP | Flannagan Hydroelectric Project | VA | 58827 | LEFT | 0.9 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 0.9 |
| 2021 | 12 | 58378 | Jordan Hydroelectric LTD PTP | IPP | Flannagan Hydroelectric Project | VA | 58827 | RGHT | 0.9 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 0.9 |
| 2021 | 12 | 60221 | North Slope LLC | IPP | North Slope, LLC | NY | 60420 | NSPV | 200.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 200.0 |
| 2021 | 12 | 61301 | Plum Creek Wind Farm LLC | IPP | Plum Creek | MN | 61687 | PLMCK | 400.0 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 400.0 |
| 2021 | 12 | 58842 | Power Company of Wyoming LLC | IPP | Chokecherry and Sierra Madre Wind | WY | 58987 | I-B | 813.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 813.0 |
| 2022 | 1 | 60687 | Alpine Pacific Utilities Hydro | IPP | Fresno Dam Site Water Power Project | MT | 61061 | 1 | 0.5 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 0.5 |
| 2022 | 1 | 60687 | Alpine Pacific Utilities Hydro | IPP | Fresno Dam Site Water Power Project | MT | 61061 | 2 | 0.5 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 0.5 |
| 2022 | 1 | 60687 | Alpine Pacific Utilities Hydro | IPP | Fresno Dam Site Water Power Project | MT | 61061 | 3 | 0.5 | Conventional Hydroelectric | WAT | HY | (L) Regulatory approvals pending. Not under construction | 0.5 |
| 2022 | 1 | 60835 | NTE Carolinas II, LLC | IPP | Reidsville Energy Center | NC | 61240 | REC | 259.0 | Natural Gas Fired Combined Cycle | NG | CT | (T) Regulatory approvals received. Not under construction | 310.2 |
| 2022 | 1 | 60835 | NTE Carolinas II, LLC | IPP | Reidsville Energy Center | NC | 61240 | REC2 | 227.0 | Natural Gas Fired Combined Cycle | NG | CA | (T) Regulatory approvals received. Not under construction | 233.7 |
| 2022 | 1 | 60473 | Renovo Energy Center | IPP | Renovo Energy Center | PA | 60786 | RECNY | 480.0 | Natural Gas Fired Combined Cycle | NG | CS | (L) Regulatory approvals pending. Not under construction | 513.0 |
| 2022 | 1 | 60473 | Renovo Energy Center | IPP | Renovo Energy Center | PA | 60786 | RECPJ | 480.0 | Natural Gas Fired Combined Cycle | NG | CS | (L) Regulatory approvals pending. Not under construction | 513.0 |
| 2022 | 4 | 55927 | Power4Georgians LLC | Electric Utility | Plant Washington | GA | 56675 | MAIN | 850.0 | Conventional Steam Coal | SUB | ST | (T) Regulatory approvals received. Not under construction | 850.0 |
| 2022 | 6 | 61386 | C4GT, LLC | IPP | C4GT | VA | 61760 | C4GT | 1,060.0 | Natural Gas Fired Combined Cycle | NG | CC | (T) Regulatory approvals received. Not under construction | 1,060.0 |
| 2022 | 6 | 55983 | Luminant Generation Company LLC | IPP | Eagle Mountain | TX | 3489 | CT1 | 224.9 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 235.5 |
| 2022 | 6 | 55983 | Luminant Generation Company LLC | IPP | Eagle Mountain | TX | 3489 | CT2 | 224.9 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 235.5 |
| 2022 | 6 | 55983 | Luminant Generation Company LLC | IPP | Eagle Mountain | TX | 3489 | ST1 | 344.4 | Natural Gas Fired Combined Cycle | NG | CA | (L) Regulatory approvals pending. Not under construction | 382.5 |
| 2022 | 12 | 56814 | Black Creek Renewable Energy LLC | IPP | Sampson County Landfill | NC | 57492 | GEN7 | 1.6 | Landfill Gas | LFG | IC | (T) Regulatory approvals received. Not under construction | 1.6 |
| 2022 | 12 | 56814 | Black Creek Renewable Energy LLC | IPP | Sampson County Landfill | NC | 57492 | GEN8 | 1.6 | Landfill Gas | LFG | IC | (T) Regulatory approvals received. Not under construction | 1.6 |
| 2022 | 12 | 56771 | Black Hills Service Company LLC | Electric Utility | Cheyenne Prairie Generating Station | WY | 57703 | 02B | 40.0 | Natural Gas Fired Combustion Turbine | NG | GT | (OT) Other | 40.0 |
| 2022 | 12 | 56771 | Black Hills Service Company LLC | Electric Utility | Cheyenne Prairie Generating Station | WY | 57703 | 03A | 40.0 | Natural Gas Fired Combustion Turbine | NG | GT | (OT) Other | 40.0 |
| 2022 | 12 | 60064 | Clean Path Energy Center, LLC | IPP | Clean Path Energy Center | NM | 60289 | CPEC1 | 680.0 | Natural Gas Fired Combined Cycle | NG | CC | (P) Planned for installation, but regulatory approvals not initiated | 680.0 |
| 2022 | 12 | 59380 | Enel Green Power NA, Inc. | IPP | Cascade Energy Storage, LLC | CA | 61801 | 10002 | 25.0 | Batteries | MWH | BA | (L) Regulatory approvals pending. Not under construction | 25.0 |
| 2022 | 12 | 59380 | Enel Green Power NA, Inc. | IPP | Sierra Energy Storage, LLC | CA | 61803 | 10003 | 10.0 | Batteries | MWH | BA | (L) Regulatory approvals pending. Not under construction | 10.0 |
| 2022 | 12 | 60411 | Friesian Holdings, LLC | IPP | Friesian Holdings | NC | 60692 | PV1 | 75.0 | Solar Photovoltaic | SUN | PV | (L) Regulatory approvals pending. Not under construction | 75.0 |
| 2023 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS3 | 226.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 241.0 |
| 2023 | 12 | 59380 | Enel Green Power NA, Inc. | IPP | Kingston Energy Storage, LLC | CA | 61802 | 10001 | 50.0 | Batteries | MWH | BA | (L) Regulatory approvals pending. Not under construction | 50.0 |
| 2023 | 12 | 57470 | Noble Energy Systems, Inc. | IPP | Pea Patch Wind Farm | MD | 58087 | PEAP | 50.0 | Onshore Wind Turbine | WND | WT | (T) Regulatory approvals received. Not under construction | 50.0 |
| 2023 | 12 | 58842 | Power Company of Wyoming LLC | IPP | Chokecherry and Sierra Madre Wind | WY | 58987 | II-A | 750.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 750.0 |
| 2024 | 1 | 2719 | CalWind Resources Inc | IPP | Tehachapi Wind Resource II | CA | 54909 | PLAN | 15.5 | Onshore Wind Turbine | WND | WT | (P) Planned for installation, but regulatory approvals not initiated | 15.5 |
| 2024 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS1 | 98.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 116.0 |
| 2024 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS2 | 98.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 116.0 |
| 2024 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS4 | 226.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 241.0 |
| 2024 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS5 | 226.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 241.0 |
| 2024 | 12 | 58842 | Power Company of Wyoming LLC | IPP | Chokecherry and Sierra Madre Wind | WY | 58987 | II-B | 750.0 | Onshore Wind Turbine | WND | WT | (L) Regulatory approvals pending. Not under construction | 750.0 |
| 2025 | 1 | 7189 | Gila Bend Power Partners LLC | IPP | Gila Bend Power Generation Station | AZ | 55507 | 1 | 156.0 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 170.0 |
| 2025 | 2 | 7189 | Gila Bend Power Partners LLC | IPP | Gila Bend Power Generation Station | AZ | 55507 | 2 | 156.0 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 170.0 |
| 2025 | 2 | 7189 | Gila Bend Power Partners LLC | IPP | Gila Bend Power Generation Station | AZ | 55507 | 3 | 156.0 | Natural Gas Fired Combined Cycle | NG | CT | (L) Regulatory approvals pending. Not under construction | 170.0 |
| 2025 | 2 | 7189 | Gila Bend Power Partners LLC | IPP | Gila Bend Power Generation Station | AZ | 55507 | 4 | 390.0 | Natural Gas Fired Combined Cycle | NG | CA | (L) Regulatory approvals pending. Not under construction | 390.0 |
| 2025 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS6 | 226.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 241.0 |
| 2025 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS7 | 226.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 241.0 |
| 2025 | 5 | 16572 | Salt River Project | Electric Utility | Copper Crossing Energy Center | AZ | 58413 | CCGS8 | 226.0 | Natural Gas Fired Combustion Turbine | NG | GT | (P) Planned for installation, but regulatory approvals not initiated | 241.0 |
| 2026 | 5 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM1 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2026 | 6 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM2 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2026 | 7 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM3 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2026 | 9 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM4 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2026 | 9 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM5 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2026 | 10 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM6 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2026 | 11 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM7 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2026 | 12 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM8 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2027 | 1 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM9 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2027 | 2 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM10 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2027 | 3 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM11 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2027 | 4 | 40575 | Utah Associated Mun Power Sys | Electric Utility | UAMPS Carbon Free Power Plant | ID | 61075 | NPM12 | 47.5 | Nuclear | NUC | ST | (P) Planned for installation, but regulatory approvals not initiated | 50.0 |
| 2027 | 12 | 60223 | Ketchikan Electric Company | Electric Utility | Mahoney Lake Hydroelectric | AK | 59027 | GEN 1 | 9.6 | Conventional Hydroelectric | WAT | HY | (P) Planned for installation, but regulatory approvals not initiated | 9.6 |

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

**Table 6.6. Planned U.S. Electric Generating Unit Retirements**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 5 | 57017 | DOE National Renewable Energy Laboratory | Commercial | DOE Golden NWTC Turbine Side | CO | 57693 | ALSTO | 3.0 | Onshore Wind Turbine | WND | WT |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Great Falls (SC) | SC | 3259 | 3 | 3.0 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Great Falls (SC) | SC | 3259 | 4 | 3.0 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Great Falls (SC) | SC | 3259 | 7 | 3.0 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Great Falls (SC) | SC | 3259 | 8 | 3.0 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 1 | 2.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 2 | 2.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 3 | 2.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 4 | 2.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 5 | 4.8 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 6 | 4.8 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 7 | 2.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 5416 | Duke Energy Carolinas, LLC | Electric Utility | Rocky Creek | SC | 3266 | 8 | 2.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 5 | 3046 | Duke Energy Progress - (NC) | Electric Utility | Darlington County | SC | 3250 | 5 | 51.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 5 | 9205 | Illinois Electricial Gen Partn | IPP | Morris Genco LLC | IL | 55774 | MO4 | 1.0 | Landfill Gas | LFG | IC |
| 2018 | 5 | 9205 | Illinois Electricial Gen Partn | IPP | Morris Genco LLC | IL | 55774 | MO5 | 1.0 | Landfill Gas | LFG | IC |
| 2018 | 5 | 15908 | NRG California South LP | IPP | Etiwanda Generating Station | CA | 331 | 3 | 320.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 5 | 15908 | NRG California South LP | IPP | Etiwanda Generating Station | CA | 331 | 4 | 320.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 5 | 13756 | Northern Indiana Pub Serv Co | Electric Utility | Bailly | IN | 995 | 7 | 160.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 5 | 13756 | Northern Indiana Pub Serv Co | Electric Utility | Bailly | IN | 995 | 8 | 320.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 5 | 15147 | PSEG Fossil LLC | IPP | PSEG Sewaren Generating Station | NJ | 2411 | 1 | 102.8 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 5 | 15147 | PSEG Fossil LLC | IPP | PSEG Sewaren Generating Station | NJ | 2411 | 2 | 118.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 5 | 15147 | PSEG Fossil LLC | IPP | PSEG Sewaren Generating Station | NJ | 2411 | 3 | 106.2 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 5 | 15147 | PSEG Fossil LLC | IPP | PSEG Sewaren Generating Station | NJ | 2411 | 4 | 123.6 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 5 | 19876 | Virginia Electric & Power Co | Electric Utility | Yorktown | VA | 3809 | 2 | 164.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 6 | 60415 | CP Crane Power, LLC | IPP | CP Crane Power, LLC | MD | 1552 | 1 | 190.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 6 | 60415 | CP Crane Power, LLC | IPP | CP Crane Power, LLC | MD | 1552 | 2 | 195.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 6 | 11713 | City of Marshall - (MI) | Electric Utility | Marshall (MI) | MI | 1844 | IC2 | 0.9 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 6 | 11713 | City of Marshall - (MI) | Electric Utility | Marshall (MI) | MI | 1844 | IC4 | 0.7 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | J M Stuart | OH | 2850 | 2 | 577.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | J M Stuart | OH | 2850 | 3 | 577.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | J M Stuart | OH | 2850 | 4 | 577.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | J M Stuart | OH | 2850 | D1 | 2.2 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | J M Stuart | OH | 2850 | D2 | 2.2 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | J M Stuart | OH | 2850 | D3 | 2.2 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | J M Stuart | OH | 2850 | D4 | 2.2 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | Killen Station | OH | 6031 | 2 | 600.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 6 | 4922 | Dayton Power & Light Co | Electric Utility | Killen Station | OH | 6031 | GT1 | 18.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 15470 | Duke Energy Indiana, LLC | Electric Utility | Connersville | IN | 1002 | 1 | 37.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 15470 | Duke Energy Indiana, LLC | Electric Utility | Connersville | IN | 1002 | 2 | 37.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 15470 | Duke Energy Indiana, LLC | Electric Utility | Miami Wabash | IN | 1006 | 1 | 14.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 15470 | Duke Energy Indiana, LLC | Electric Utility | Miami Wabash | IN | 1006 | 2 | 12.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 15470 | Duke Energy Indiana, LLC | Electric Utility | Miami Wabash | IN | 1006 | 3 | 12.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 15470 | Duke Energy Indiana, LLC | Electric Utility | Miami Wabash | IN | 1006 | 5 | 14.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 15470 | Duke Energy Indiana, LLC | Electric Utility | Miami Wabash | IN | 1006 | 6 | 12.0 | Petroleum Liquids | DFO | GT |
| 2018 | 6 | 12685 | Entergy Mississippi Inc | Electric Utility | Baxter Wilson | MS | 2050 | 2 | 530.7 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 6 | 12685 | Entergy Mississippi Inc | Electric Utility | Rex Brown | MS | 2053 | 3 | 29.3 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | 1 | 11.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | 3 | 17.9 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H10 | 1.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H11 | 1.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H2 | 13.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H4 | 1.8 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H5 | 1.8 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H6 | 1.8 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H7 | 1.8 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H8 | 1.8 | Petroleum Liquids | DFO | IC |
| 2018 | 6 | 7651 | Greenwood Utilities Comm | Electric Utility | Henderson | MS | 2062 | H9 | 1.3 | Natural Gas Internal Combustion Engine | NG | IC |
| 2018 | 6 | 9397 | International Turbine Res Inc | IPP | Dinosaur Point | CA | 10005 | WTGS | 17.0 | Onshore Wind Turbine | WND | WT |
| 2018 | 6 | 9417 | Interstate Power and Light Co | Electric Utility | Burlington (IA) | IA | 1104 | GT1 | 15.2 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 6 | 9417 | Interstate Power and Light Co | Electric Utility | Burlington (IA) | IA | 1104 | GT2 | 13.4 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 6 | 9417 | Interstate Power and Light Co | Electric Utility | Burlington (IA) | IA | 1104 | GT3 | 14.2 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 6 | 9417 | Interstate Power and Light Co | Electric Utility | Burlington (IA) | IA | 1104 | GT4 | 16.1 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 6 | 9417 | Interstate Power and Light Co | Electric Utility | Milton L Kapp | IA | 1048 | 2 | 112.5 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 6 | 9417 | Interstate Power and Light Co | Electric Utility | Red Cedar | IA | 7595 | 1 | 13.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 6 | 11217 | Los Angeles County Sanitation | IPP | Commerce Refuse To Energy | CA | 10090 | GEN1 | 10.0 | Municipal Solid Waste | MSW | ST |
| 2018 | 6 | 56516 | Morris Energy Operations Company, LLC | Electric CHP | Bayonne Plant Holding LLC | NJ | 50497 | GTG1 | 163.0 | Natural Gas Fired Combined Cycle | NG | CT |

**Table 6.6. Planned U.S. Electric Generating Unit Retirements**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 6 | 56516 | Morris Energy Operations Company, LLC | Electric CHP | Bayonne Plant Holding LLC | NJ | 50497 | GTG2 | | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 6 | 56516 | Morris Energy Operations Company, LLC | Electric CHP | Bayonne Plant Holding LLC | NJ | 50497 | GTG3 | | Natural Gas Fired Combined Cycle | NG | CT |
| 2018 | 6 | 56516 | Morris Energy Operations Company, LLC | Electric CHP | Bayonne Plant Holding LLC | NJ | 50497 | STG1 | | Natural Gas Fired Combined Cycle | NG | CA |
| 2018 | 6 | 56772 | TX LFG Energy, LP | IPP | Coastal Plains | TX | 55554 | UNT2 | 1.7 | Landfill Gas | LFG | IC |
| 2018 | 7 | 57101 | FC Landfill Energy | IPP | FC Landfill Energy | MD | 57786 | UNIT1 | 1.0 | Landfill Gas | LFG | IC |
| 2018 | 7 | 57101 | FC Landfill Energy | IPP | FC Landfill Energy | MD | 57786 | UNIT2 | 1.0 | Landfill Gas | LFG | IC |
| 2018 | 7 | 7308 | Hawkeye Energy Greenport LLC | IPP | Hawkeye Energy Greenport LLC | NY | 55969 | U-01 | 53.5 | Petroleum Liquids | KER | GT |
| 2018 | 7 | 11479 | Madison Gas & Electric Co | Electric Utility | Fitchburg | WI | 3991 | 1 | 16.6 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 7 | 11479 | Madison Gas & Electric Co | Electric Utility | Fitchburg | WI | 3991 | 2 | 15.8 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 7 | 25835 | Portland City of | IPP | Ground Water Pumping Station | OR | 50105 | GPS1 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 7 | 25835 | Portland City of | IPP | Ground Water Pumping Station | OR | 50105 | GPS2 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 7 | 25835 | Portland City of | IPP | Ground Water Pumping Station | OR | 50105 | GPS3 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 7 | 25835 | Portland City of | IPP | Ground Water Pumping Station | OR | 50105 | GPS4 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 7 | 25835 | Portland City of | IPP | Ground Water Pumping Station | OR | 50105 | GPS5 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 7 | 25835 | Portland City of | IPP | Ground Water Pumping Station | OR | 50105 | GPS6 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2018 | 8 | 2872 | Auburndale Peaker Energy Center LLC | IPP | Auburndale Peaker Energy Center | FL | 55833 | CTP | 117.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 9 | 55951 | Exelon Nuclear | IPP | Oyster Creek | NJ | 2388 | 1 | 607.7 | Nuclear | NUC | ST |
| 2018 | 9 | 20856 | Wisconsin Power & Light Co | Electric Utility | Edgewater | WI | 4050 | 4 | 294.4 | Conventional Steam Coal | SUB | ST |
| 2018 | 10 | 11560 | City of Manassas - (VA) | Electric Utility | Church Street Plant | VA | 7438 | C1 | 0.8 | Petroleum Liquids | DFO | IC |
| 2018 | 10 | 11560 | City of Manassas - (VA) | Electric Utility | Church Street Plant | VA | 7438 | C2 | 0.8 | Petroleum Liquids | DFO | IC |
| 2018 | 10 | 11560 | City of Manassas - (VA) | Electric Utility | Church Street Plant | VA | 7438 | C4 | 1.0 | Petroleum Liquids | DFO | IC |
| 2018 | 10 | 18445 | City of Tallahassee - (FL) | Electric Utility | Arvah B Hopkins | FL | 688 | 1 | 76.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 10 | 18445 | City of Tallahassee - (FL) | Electric Utility | S O Purdom | FL | 689 | GT2 | 10.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 10 | 56997 | Marina Energy LLC | Commercial | Stockton Athletic Center | NJ | 57864 | 2LOT7 | 0.5 | Solar Photovoltaic | SUN | PV |
| 2018 | 12 | 12647 | ALLETE, Inc. | Electric Utility | Clay Boswell | MN | 1893 | 1 | 67.3 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 12647 | ALLETE, Inc. | Electric Utility | Clay Boswell | MN | 1893 | 2 | 67.4 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 17833 | City Utilities of Springfield - (MO) | Electric Utility | James River Power Station | MO | 2161 | 4 | 56.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 12 | 17833 | City Utilities of Springfield - (MO) | Electric Utility | James River Power Station | MO | 2161 | 5 | 97.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 12 | 8776 | City of Holyoke Gas and Electric Dept. | Electric Utility | Harris Energy Realty | MA | 54981 | ALBA | 0.3 | Conventional Hydroelectric | WAT | HY |
| 2018 | 12 | 8776 | City of Holyoke Gas and Electric Dept. | Electric Utility | Harris Energy Realty | MA | 54981 | ALBD | 0.4 | Conventional Hydroelectric | WAT | HY |
| 2018 | 12 | 16604 | City of San Antonio - (TX) | Electric Utility | J T Deely | TX | 6181 | 1 | 420.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 16604 | City of San Antonio - (TX) | Electric Utility | J T Deely | TX | 6181 | 2 | 420.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 59173 | City of Tulare Water Pollution Control | Commercial | City of Tulare Water Facility | CA | 59395 | C2550 | 0.4 | Other Waste Biomass | OBG | IC |
| 2018 | 12 | 6455 | Duke Energy Florida, LLC | Electric Utility | Crystal River | FL | 628 | 1 | 324.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 12 | 6455 | Duke Energy Florida, LLC | Electric Utility | Crystal River | FL | 628 | 2 | 442.0 | Conventional Steam Coal | BIT | ST |
| 2018 | 12 | 56211 | KCP&L Greater Missouri Operations Co | Electric Utility | Sibley | MO | 2094 | 2 | 42.1 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 56211 | KCP&L Greater Missouri Operations Co | Electric Utility | Sibley | MO | 2094 | 3 | 364.1 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 10000 | Kansas City Power & Light Co | Electric Utility | Montrose | MO | 2080 | 2 | 164.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 10000 | Kansas City Power & Light Co | Electric Utility | Montrose | MO | 2080 | 3 | 170.0 | Conventional Steam Coal | SUB | ST |
| 2018 | 12 | 11479 | Madison Gas & Electric Co | Electric Utility | Nine Springs | WI | 9674 | GT1 | 14.2 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 12 | 11479 | Madison Gas & Electric Co | Electric Utility | Sycamore (WI) | WI | 3993 | 1 | 11.2 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 12 | 11479 | Madison Gas & Electric Co | Electric Utility | Sycamore (WI) | WI | 3993 | 2 | 16.6 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 12 | 13960 | NRG Cabrillo Power Ops Inc | IPP | Encina | CA | 302 | 2 | 104.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 12 | 13960 | NRG Cabrillo Power Ops Inc | IPP | Encina | CA | 302 | 3 | 110.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 12 | 13960 | NRG Cabrillo Power Ops Inc | IPP | Encina | CA | 302 | 4 | 300.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 12 | 13960 | NRG Cabrillo Power Ops Inc | IPP | Encina | CA | 302 | 5 | 330.0 | Natural Gas Steam Turbine | NG | ST |
| 2018 | 12 | 13960 | NRG Cabrillo Power Ops Inc | IPP | Encina | CA | 302 | GT1 | 14.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 12 | 15908 | NRG California South LP | IPP | Ellwood | CA | 8076 | 01 | 54.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 12 | 17583 | South Texas Electric Coop, Inc | Electric Utility | Sam Rayburn | TX | 3631 | 1 | 10.5 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2018 | 12 | 17583 | South Texas Electric Coop, Inc | Electric Utility | Sam Rayburn | TX | 3631 | 2 | 11.5 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2019 | 1 | 19145 | DTE Tuscola, LLC | Industrial | Tuscola Station | IL | 55245 | TG1 | 3.8 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 1 | 18715 | Texas Municipal Power Agency | Electric Utility | Gibbons Creek | TX | 6136 | 1 | 470.0 | Conventional Steam Coal | SUB | ST |
| 2019 | 2 | 10171 | Kentucky Utilities Co | Electric Utility | E W Brown | KY | 1355 | 1 | 106.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 2 | 10171 | Kentucky Utilities Co | Electric Utility | E W Brown | KY | 1355 | 2 | 166.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 2 | 56997 | Marina Energy LLC | Commercial | Stockton Athletic Center | NJ | 57864 | SAC | 0.3 | Solar Photovoltaic | SUN | PV |
| 2019 | 3 | 59879 | Greenleaf Energy LLC | Electric CHP | Greenleaf 1 Power Plant | CA | 10350 | GEN1 | 42.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2019 | 3 | 59879 | Greenleaf Energy LLC | Electric CHP | Greenleaf 1 Power Plant | CA | 10350 | GEN2 | 8.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2019 | 3 | 13206 | Nantucket Electric Co | Electric Utility | Nantucket | MA | 1615 | 12 | 2.8 | Petroleum Liquids | DFO | GT |
| 2019 | 3 | 13206 | Nantucket Electric Co | Electric Utility | Nantucket | MA | 1615 | 13 | 2.9 | Petroleum Liquids | DFO | GT |
| 2019 | 4 | 7136 | Georgia-Pacific Consr Prods LP-Naheola | Industrial | Georgia-Pacific Consr Prods LP-Naheola | AL | 10699 | GEN1 | 12.4 | Wood/Wood Waste Biomass | BLQ | ST |
| 2019 | 4 | 7136 | Georgia-Pacific Consr Prods LP-Naheola | Industrial | Georgia-Pacific Consr Prods LP-Naheola | AL | 10699 | GEN2 | 12.4 | Wood/Wood Waste Biomass | BLQ | ST |
| 2019 | 4 | 56997 | Marina Energy LLC | Commercial | Stockton Athletic Center | NJ | 57864 | LOT7 | 0.2 | Solar Photovoltaic | SUN | PV |
| 2019 | 4 | 56997 | Marina Energy LLC | Commercial | Stockton Athletic Center | NJ | 57864 | LOT7B | 0.2 | Solar Photovoltaic | SUN | PV |
| 2019 | 5 | 29926 | Entergy Nuclear Generation Co | IPP | Pilgrim Nuclear Power Station | MA | 1590 | 1 | 677.2 | Nuclear | NUC | ST |
| 2019 | 5 | 60771 | Marcus Hook 50 L.P | Electric CHP | Marcus Hook Refinery Cogen | PA | 50074 | GEN1 | 48.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2019 | 5 | 19876 | Virginia Electric & Power Co | Electric Utility | Yorktown | VA | 3809 | 1 | 159.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 6 | 20847 | Wisconsin Electric Power Co | Electric Utility | Presque Isle | MI | 1769 | 5 | 55.0 | Conventional Steam Coal | SUB | ST |

**Table 6.6. Planned U.S. Electric Generating Unit Retirements**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2019 | 6 | 20847 | Wisconsin Electric Power Co | Electric Utility | Presque Isle | MI | 1769 | 6 | 55.0 | Conventional Steam Coal | SUB | ST |
| 2019 | 6 | 20847 | Wisconsin Electric Power Co | Electric Utility | Presque Isle | MI | 1769 | 7 | 83.0 | Conventional Steam Coal | SUB | ST |
| 2019 | 6 | 20847 | Wisconsin Electric Power Co | Electric Utility | Presque Isle | MI | 1769 | 8 | 83.0 | Conventional Steam Coal | SUB | ST |
| 2019 | 6 | 20847 | Wisconsin Electric Power Co | Electric Utility | Presque Isle | MI | 1769 | 9 | 83.0 | Conventional Steam Coal | SUB | ST |
| 2019 | 8 | 14624 | PUD No 2 of Grant County | Electric Utility | Wanapum | WA | 3888 | 4 | 103.8 | Conventional Hydroelectric | WAT | HY |
| 2019 | 9 | 55951 | Exelon Nuclear | IPP | Three Mile Island | PA | 8011 | 1 | 802.8 | Nuclear | NUC | ST |
| 2019 | 9 | 17166 | Sierra Pacific Power Co | Electric Utility | Brunswick | NV | 6510 | 1 | 2.0 | Petroleum Liquids | DFO | IC |
| 2019 | 9 | 17166 | Sierra Pacific Power Co | Electric Utility | Brunswick | NV | 6510 | 2 | 2.0 | Petroleum Liquids | DFO | IC |
| 2019 | 9 | 17166 | Sierra Pacific Power Co | Electric Utility | Brunswick | NV | 6510 | 3 | 2.0 | Petroleum Liquids | DFO | IC |
| 2019 | 10 | 22484 | AES Redondo Beach LLC | IPP | AES Redondo Beach LLC | CA | 356 | 7 | 480.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 10 | 60415 | CP Crane Power, LLC | IPP | CP Crane Power, LLC | MD | 1552 | GT1 | 14.0 | Petroleum Liquids | DFO | GT |
| 2019 | 10 | 16657 | San Jose/Santa Clara Water P C | Commercial | SJ/SC WPCP | CA | 56080 | EG1 | 2.8 | Natural Gas Internal Combustion Engine | NG | IC |
| 2019 | 10 | 16657 | San Jose/Santa Clara Water P C | Commercial | SJ/SC WPCP | CA | 56080 | EG2 | 2.8 | Natural Gas Internal Combustion Engine | NG | IC |
| 2019 | 10 | 16657 | San Jose/Santa Clara Water P C | Commercial | SJ/SC WPCP | CA | 56080 | EG3 | 2.8 | Natural Gas Internal Combustion Engine | NG | IC |
| 2019 | 11 | 3046 | Duke Energy Progress - (NC) | Electric Utility | Asheville | NC | 2706 | 1 | 189.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 11 | 3046 | Duke Energy Progress - (NC) | Electric Utility | Asheville | NC | 2706 | 2 | 189.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 12 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 1 | 175.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 2 | 175.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 6 | 495.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 23693 | AES Huntington Beach LLC | IPP | AES Huntington Beach LLC | CA | 335 | 1 | 225.8 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 195 | Alabama Power Co | Electric Utility | Barry | AL | 3 | 1 | 55.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 195 | Alabama Power Co | Electric Utility | Barry | AL | 3 | 2 | 55.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 195 | Alabama Power Co | Electric Utility | Gadsden | AL | 7 | 1 | 64.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 195 | Alabama Power Co | Electric Utility | Gadsden | AL | 7 | 2 | 66.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 56706 | Chevron Technology Ventures | IPP | Questa Solar Facility | NM | 57369 | QST | 1.0 | Solar Photovoltaic | SUN | PV |
| 2019 | 12 | 61138 | City Point Energy Center | Electric CHP | James River Genco LLC | VA | 10377 | GEN1 | 46.3 | Conventional Steam Coal | BIT | ST |
| 2019 | 12 | 61138 | City Point Energy Center | Electric CHP | James River Genco LLC | VA | 10377 | GEN2 | 46.3 | Conventional Steam Coal | BIT | ST |
| 2019 | 12 | 228 | City of Albany - (MO) | Electric Utility | Albany | MO | 2113 | 1 | 2.1 | Petroleum Liquids | DFO | IC |
| 2019 | 12 | 59879 | Greenleaf Energy LLC | Electric CHP | Greenleaf 2 Power Plant | CA | 10349 | GEN1 | 49.5 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2019 | 12 | 8688 | Hofstra University | Commercial | Hofstra University | NY | 51035 | GEN1 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2019 | 12 | 8688 | Hofstra University | Commercial | Hofstra University | NY | 51035 | GEN2 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2019 | 12 | 56211 | KCP&L Greater Missouri Operations Co | Electric Utility | Lake Road (MO) | MO | 2098 | 4 | 97.1 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 16572 | Salt River Project | Electric Utility | Navajo | AZ | 4941 | NAV1 | 750.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 12 | 16572 | Salt River Project | Electric Utility | Navajo | AZ | 4941 | NAV2 | 750.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 12 | 16572 | Salt River Project | Electric Utility | Navajo | AZ | 4941 | NAV3 | 750.0 | Conventional Steam Coal | BIT | ST |
| 2019 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Cunningham | NM | 2454 | 1 | 71.0 | Natural Gas Steam Turbine | NG | ST |
| 2019 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Plant X | TX | 3485 | 1 | 38.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 1 | 14328 | Pacific Gas & Electric Co. | Electric Utility | Kilarc | CA | 253 | 1 | 1.6 | Conventional Hydroelectric | WAT | HY |
| 2020 | 1 | 14328 | Pacific Gas & Electric Co. | Electric Utility | Kilarc | CA | 253 | 2 | 1.6 | Conventional Hydroelectric | WAT | HY |
| 2020 | 1 | 21622 | The University of Texas at Dallas | Commercial | University of Texas at Dallas | TX | 54607 | GEN1 | 3.5 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 4 | 11820 | Massachusetts Inst of Tech | Commercial | Mass Inst Tech Cntrl Utilities/Cogen Plt | MA | 54907 | CTG1 | 19.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 5 | 6455 | Duke Energy Florida, LLC | Electric Utility | Avon Park | FL | 624 | P1 | 24.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 5 | 6455 | Duke Energy Florida, LLC | Electric Utility | Avon Park | FL | 624 | P2 | 24.0 | Petroleum Liquids | DFO | GT |
| 2020 | 5 | 6455 | Duke Energy Florida, LLC | Electric Utility | Higgins | FL | 630 | P1 | 20.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 5 | 6455 | Duke Energy Florida, LLC | Electric Utility | Higgins | FL | 630 | P2 | 25.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 5 | 6455 | Duke Energy Florida, LLC | Electric Utility | Higgins | FL | 630 | P3 | 31.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 5 | 6455 | Duke Energy Florida, LLC | Electric Utility | Higgins | FL | 630 | P4 | 31.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 5 | 6526 | FirstEnergy Generation Corp | IPP | FirstEnergy W H Sammis | OH | 2866 | 1 | 180.0 | Conventional Steam Coal | BIT | ST |
| 2020 | 5 | 6526 | FirstEnergy Generation Corp | IPP | FirstEnergy W H Sammis | OH | 2866 | 2 | 180.0 | Conventional Steam Coal | BIT | ST |
| 2020 | 5 | 6526 | FirstEnergy Generation Corp | IPP | FirstEnergy W H Sammis | OH | 2866 | 3 | 180.0 | Conventional Steam Coal | BIT | ST |
| 2020 | 5 | 6526 | FirstEnergy Generation Corp | IPP | FirstEnergy W H Sammis | OH | 2866 | 4 | 180.0 | Conventional Steam Coal | BIT | ST |
| 2020 | 5 | 16721 | S D Warren Co.- Westbrook | Industrial | S D Warren Westbrook | ME | 50447 | GN18 | 0.4 | Conventional Hydroelectric | WAT | HY |
| 2020 | 5 | 16721 | S D Warren Co.- Westbrook | Industrial | S D Warren Westbrook | ME | 50447 | GN19 | 0.4 | Conventional Hydroelectric | WAT | HY |
| 2020 | 5 | 16721 | S D Warren Co.- Westbrook | Industrial | S D Warren Westbrook | ME | 50447 | GN20 | 0.4 | Conventional Hydroelectric | WAT | HY |
| 2020 | 6 | 7483 | City of Grand Haven - (MI) | Electric Utility | Grand Haven Diesel Plant | MI | 1826 | 1 | 8.4 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 6 | 60422 | H.A. Wagner LLC | IPP | Herbert A Wagner | MD | 1554 | 2 | 118.0 | Conventional Steam Coal | RC | ST |
| 2020 | 7 | 14328 | Pacific Gas & Electric Co. | Electric Utility | Cow Creek | CA | 229 | 1 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2020 | 7 | 14328 | Pacific Gas & Electric Co. | Electric Utility | Cow Creek | CA | 229 | 2 | 0.9 | Conventional Hydroelectric | WAT | HY |
| 2020 | 9 | 14173 | Oroville Cogeneration LP | Industrial | Oroville Cogeneration LP | CA | 54477 | GEN1 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 9 | 14173 | Oroville Cogeneration LP | Industrial | Oroville Cogeneration LP | CA | 54477 | GEN2 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 9 | 14173 | Oroville Cogeneration LP | Industrial | Oroville Cogeneration LP | CA | 54477 | GEN3 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 9 | 14173 | Oroville Cogeneration LP | Industrial | Oroville Cogeneration LP | CA | 54477 | GEN4 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 9 | 14173 | Oroville Cogeneration LP | Industrial | Oroville Cogeneration LP | CA | 54477 | GEN5 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 9 | 14173 | Oroville Cogeneration LP | Industrial | Oroville Cogeneration LP | CA | 54477 | GEN6 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 9 | 14173 | Oroville Cogeneration LP | Industrial | Oroville Cogeneration LP | CA | 54477 | GEN7 | 1.1 | Natural Gas Internal Combustion Engine | NG | IC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL00 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL01 | 0.1 | Other Waste Biomass | OBG | FC |

**Table 6.6. Planned U.S. Electric Generating Unit Retirements**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL02 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL03 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL04 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL05 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL06 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL07 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL08 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL09 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 11 | 56778 | Bloom Energy 2009 PPA | IPP | Caltech Central | CA | 57460 | CL10 | 0.1 | Other Waste Biomass | OBG | FC |
| 2020 | 12 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 3 | 332.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 4 | 335.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 22148 | AES Alamitos LLC | IPP | AES Alamitos LLC | CA | 315 | 5 | 485.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 23693 | AES Huntington Beach LLC | IPP | AES Huntington Beach LLC | CA | 335 | 2 | 225.8 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 22484 | AES Redondo Beach LLC | IPP | AES Redondo Beach LLC | CA | 356 | 5 | 175.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 22484 | AES Redondo Beach LLC | IPP | AES Redondo Beach LLC | CA | 356 | 6 | 175.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 22484 | AES Redondo Beach LLC | IPP | AES Redondo Beach LLC | CA | 356 | 8 | 480.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 56155 | Lansing Board of Water and Light | Electric Utility | Eckert Station | MI | 1831 | 4 | 64.0 | Conventional Steam Coal | SUB | ST |
| 2020 | 12 | 56155 | Lansing Board of Water and Light | Electric Utility | Eckert Station | MI | 1831 | 5 | 63.1 | Conventional Steam Coal | SUB | ST |
| 2020 | 12 | 56155 | Lansing Board of Water and Light | Electric Utility | Eckert Station | MI | 1831 | 6 | 62.8 | Conventional Steam Coal | SUB | ST |
| 2020 | 12 | 11208 | Los Angeles Department of Water & Power | Electric Utility | Scattergood | CA | 404 | 1 | 107.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 11208 | Los Angeles Department of Water & Power | Electric Utility | Scattergood | CA | 404 | 2 | 177.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 61013 | Northern Westchester Hospital | Commercial | Northern Westchester Hospital | NY | 61378 | 4 | 0.8 | Petroleum Liquids | DFO | IC |
| 2020 | 12 | 61013 | Northern Westchester Hospital | Commercial | Northern Westchester Hospital | NY | 61378 | 5 | 0.8 | Petroleum Liquids | DFO | IC |
| 2020 | 12 | 14232 | Otter Tail Power Co | Electric Utility | Hoot Lake | MN | 1943 | D1 | 0.2 | Petroleum Liquids | DFO | IC |
| 2020 | 12 | 14232 | Otter Tail Power Co | Electric Utility | Hoot Lake | MN | 1943 | D2 | 0.1 | Petroleum Liquids | DFO | IC |
| 2020 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Plant X | TX | 3485 | 2 | 90.0 | Natural Gas Steam Turbine | NG | ST |
| 2020 | 12 | 19099 | TransAlta Centralia Gen LLC | IPP | Transalta Centralia Generation | WA | 3845 | 1 | 670.0 | Conventional Steam Coal | RC | ST |
| 2020 | 12 | 20856 | Wisconsin Power & Light Co | Electric Utility | Rock River | WI | 4057 | 3 | 21.2 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 12 | 20856 | Wisconsin Power & Light Co | Electric Utility | Rock River | WI | 4057 | 4 | 14.3 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 12 | 20856 | Wisconsin Power & Light Co | Electric Utility | Rock River | WI | 4057 | 5 | 49.8 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 12 | 20856 | Wisconsin Power & Light Co | Electric Utility | Rock River | WI | 4057 | 6 | 46.7 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2020 | 12 | 20856 | Wisconsin Power & Light Co | Electric Utility | Sheepskin | WI | 4059 | 1 | 34.3 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2021 | 1 | 15908 | NRG California South LP | IPP | Ormond Beach | CA | 350 | 1 | 741.0 | Natural Gas Steam Turbine | NG | ST |
| 2021 | 1 | 15908 | NRG California South LP | IPP | Ormond Beach | CA | 350 | 2 | 750.0 | Natural Gas Steam Turbine | NG | ST |
| 2021 | 1 | 15248 | Portland General Electric Co | Electric Utility | Boardman | OR | 6106 | 1 | 585.0 | Conventional Steam Coal | SUB | ST |
| 2021 | 4 | 6028 | Entergy Nuclear Indian Point 3 | IPP | Indian Point 3 | NY | 8907 | 3 | 1,041.3 | Nuclear | NUC | ST |
| 2021 | 4 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | Northeast (IN) | IN | 1013 | 1 | 10.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2021 | 4 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | Northeast (IN) | IN | 1013 | 2 | 10.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2021 | 5 | 58435 | Collinwood BioEnergy | Industrial | Collinwood BioEnergy Facility | OH | 58439 | CBE01 | 1.0 | Other Waste Biomass | OBG | IC |
| 2021 | 6 | 14232 | Otter Tail Power Co | Electric Utility | Hoot Lake | MN | 1943 | 2 | 58.0 | Conventional Steam Coal | SUB | ST |
| 2021 | 6 | 14232 | Otter Tail Power Co | Electric Utility | Hoot Lake | MN | 1943 | 3 | 80.0 | Conventional Steam Coal | SUB | ST |
| 2021 | 6 | 15452 | PSEG Power Connecticut LLC | IPP | Bridgeport Station | CT | 568 | 3 | 383.4 | Conventional Steam Coal | SUB | ST |
| 2021 | 9 | 17166 | Sierra Pacific Power Co | Electric Utility | Fort Churchill | NV | 2330 | 2 | 113.0 | Natural Gas Steam Turbine | NG | ST |
| 2021 | 12 | 15466 | Public Service Co of Colorado | Electric Utility | Salida | CO | 474 | 1 | 0.8 | Conventional Hydroelectric | WAT | HY |
| 2022 | 1 | 59409 | Eco Services Corp. | Industrial | Houston Plant | TX | 52065 | GEN2 | 1.5 | All Other | WH | ST |
| 2022 | 6 | 56192 | Entergy Nuclear Palisades LLC | IPP | Palisades | MI | 1715 | 1 | 801.8 | Nuclear | NUC | ST |
| 2022 | 7 | 15298 | Talen Montana LLC | IPP | Colstrip | MT | 6076 | 1 | 307.0 | Conventional Steam Coal | SUB | ST |
| 2022 | 7 | 15298 | Talen Montana LLC | IPP | Colstrip | MT | 6076 | 2 | 307.0 | Conventional Steam Coal | SUB | ST |
| 2022 | 8 | 6909 | Gainesville Regional Utilities | Electric Utility | Deerhaven Generating Station | FL | 663 | 1 | 75.0 | Natural Gas Steam Turbine | NG | ST |
| 2022 | 9 | 177 | AES Hawaii Inc | Electric CHP | AES Hawaii | HI | 10673 | GEN1 | 180.0 | Conventional Steam Coal | SUB | ST |
| 2022 | 11 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Cornell | WI | 6086 | 1 | 6.2 | Conventional Hydroelectric | WAT | HY |
| 2022 | 11 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Cornell | WI | 6086 | 2 | 6.4 | Conventional Hydroelectric | WAT | HY |
| 2022 | 11 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Cornell | WI | 6086 | 3 | 6.9 | Conventional Hydroelectric | WAT | HY |
| 2022 | 11 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Cornell | WI | 6086 | 4 | 0.4 | Conventional Hydroelectric | WAT | HY |
| 2022 | 12 | 15470 | Duke Energy Indiana, LLC | Electric Utility | R Gallagher | IN | 1008 | 2 | 140.0 | Conventional Steam Coal | BIT | ST |
| 2022 | 12 | 15470 | Duke Energy Indiana, LLC | Electric Utility | R Gallagher | IN | 1008 | 4 | 140.0 | Conventional Steam Coal | BIT | ST |
| 2022 | 12 | 54803 | Dynegy Oakland, LLC | IPP | Dynegy Oakland Power Plant | CA | 6211 | GEN1 | 55.0 | Petroleum Liquids | JF | GT |
| 2022 | 12 | 54803 | Dynegy Oakland, LLC | IPP | Dynegy Oakland Power Plant | CA | 6211 | GEN2 | 55.0 | Petroleum Liquids | JF | GT |
| 2022 | 12 | 54803 | Dynegy Oakland, LLC | IPP | Dynegy Oakland Power Plant | CA | 6211 | GEN3 | 55.0 | Petroleum Liquids | JF | GT |
| 2022 | 12 | 5701 | El Paso Electric Co | Electric Utility | Newman | TX | 3456 | 1 | 74.0 | Natural Gas Steam Turbine | NG | ST |
| 2022 | 12 | 5701 | El Paso Electric Co | Electric Utility | Newman | TX | 3456 | 2 | 76.0 | Natural Gas Steam Turbine | NG | ST |
| 2022 | 12 | 5701 | El Paso Electric Co | Electric Utility | Rio Grande | NM | 2444 | 6 | 45.0 | Natural Gas Steam Turbine | NG | ST |
| 2022 | 12 | 5701 | El Paso Electric Co | Electric Utility | Rio Grande | NM | 2444 | 7 | 46.0 | Natural Gas Steam Turbine | NG | ST |
| 2022 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | French Island | WI | 4005 | 3 | 61.0 | Petroleum Liquids | DFO | GT |
| 2022 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | French Island | WI | 4005 | 4 | 61.0 | Petroleum Liquids | DFO | GT |
| 2022 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Sherburne County | MN | 6090 | 2 | 682.0 | Conventional Steam Coal | SUB | ST |
| 2022 | 12 | 15466 | Public Service Co of Colorado | Electric Utility | Comanche (CO) | CO | 470 | 1 | 325.0 | Conventional Steam Coal | SUB | ST |

**Table 6.6. Planned U.S. Electric Generating Unit Retirements**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2022 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Nichols | TX | 3484 | 1 | 107.0 | Natural Gas Steam Turbine | NG | ST |
| 2022 | 12 | 30151 | Tri-State G & T Assn, Inc | Electric Utility | Nucla | CO | 527 | 1 | 12.0 | Conventional Steam Coal | BIT | ST |
| 2022 | 12 | 30151 | Tri-State G & T Assn, Inc | Electric Utility | Nucla | CO | 527 | 2 | 12.0 | Conventional Steam Coal | BIT | ST |
| 2022 | 12 | 30151 | Tri-State G & T Assn, Inc | Electric Utility | Nucla | CO | 527 | 3 | 12.0 | Conventional Steam Coal | BIT | ST |
| 2022 | 12 | 30151 | Tri-State G & T Assn, Inc | Electric Utility | Nucla | CO | 527 | ST4 | 64.0 | Conventional Steam Coal | BIT | ST |
| 2023 | 1 | 11135 | City of Logan - (UT) | Electric Utility | Hydro III | UT | 3675 | HY1 | 0.7 | Conventional Hydroelectric | WAT | HY |
| 2023 | 1 | 11135 | City of Logan - (UT) | Electric Utility | Hydro III | UT | 3675 | HY2 | 0.7 | Conventional Hydroelectric | WAT | HY |
| 2023 | 3 | 57173 | AC Landfill Energy LLC | IPP | AC Landfill Energy LLC | NJ | 57845 | UNIT1 | 1.5 | Landfill Gas | LFG | IC |
| 2023 | 3 | 57173 | AC Landfill Energy LLC | IPP | AC Landfill Energy LLC | NJ | 57845 | UNIT2 | 1.8 | Landfill Gas | LFG | IC |
| 2023 | 3 | 57173 | AC Landfill Energy LLC | IPP | AC Landfill Energy LLC | NJ | 57845 | UNIT3 | 1.8 | Landfill Gas | LFG | IC |
| 2023 | 3 | 13399 | Nevada Cogeneration Assoc # 1 | Electric CHP | Nevada Cogen Assoc#1 GarnetVly | NV | 54350 | GTA | 20.5 | Natural Gas Fired Combined Cycle | NG | CT |
| 2023 | 3 | 13399 | Nevada Cogeneration Assoc # 1 | Electric CHP | Nevada Cogen Assoc#1 GarnetVly | NV | 54350 | GTB | 20.5 | Natural Gas Fired Combined Cycle | NG | CT |
| 2023 | 3 | 13399 | Nevada Cogeneration Assoc # 1 | Electric CHP | Nevada Cogen Assoc#1 GarnetVly | NV | 54350 | GTC | 20.5 | Natural Gas Fired Combined Cycle | NG | CT |
| 2023 | 3 | 13399 | Nevada Cogeneration Assoc # 1 | Electric CHP | Nevada Cogen Assoc#1 GarnetVly | NV | 54350 | STM | 24.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2023 | 3 | 13365 | Nevada Cogeneration Assoc # 2 | Electric CHP | Nevada Cogen Associates 2 Black Mountain | NV | 54349 | GTA | 21.7 | Natural Gas Fired Combined Cycle | NG | CT |
| 2023 | 3 | 13365 | Nevada Cogeneration Assoc # 2 | Electric CHP | Nevada Cogen Associates 2 Black Mountain | NV | 54349 | GTB | 21.7 | Natural Gas Fired Combined Cycle | NG | CT |
| 2023 | 3 | 13365 | Nevada Cogeneration Assoc # 2 | Electric CHP | Nevada Cogen Associates 2 Black Mountain | NV | 54349 | GTC | 21.7 | Natural Gas Fired Combined Cycle | NG | CT |
| 2023 | 3 | 13365 | Nevada Cogeneration Assoc # 2 | Electric CHP | Nevada Cogen Associates 2 Black Mountain | NV | 54349 | STM | 28.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2023 | 12 | 5860 | Empire District Electric Co | Electric Utility | Empire Energy Center | MO | 6223 | 1 | 82.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2023 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Blue Lake | MN | 8027 | 1 | 39.0 | Petroleum Liquids | DFO | GT |
| 2023 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Blue Lake | MN | 8027 | 2 | 39.0 | Petroleum Liquids | DFO | GT |
| 2023 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Blue Lake | MN | 8027 | 3 | 36.0 | Petroleum Liquids | DFO | GT |
| 2023 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Blue Lake | MN | 8027 | 4 | 39.0 | Petroleum Liquids | DFO | GT |
| 2023 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | French Island | WI | 4005 | 1 | 9.0 | Wood/Wood Waste Biomass | WDS | ST |
| 2023 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | French Island | WI | 4005 | 2 | 7.0 | Wood/Wood Waste Biomass | WDS | ST |
| 2023 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Laverne Battery | MN | 58579 | 1 | 1.0 | Batteries | MWH | BA |
| 2023 | 12 | 14063 | Oklahoma Gas & Electric Co | Electric Utility | Horseshoe Lake | OK | 2951 | 6 | 167.0 | Natural Gas Steam Turbine | NG | ST |
| 2023 | 12 | 14127 | Omaha Public Power District | Electric Utility | North Omaha | NE | 2291 | 1 | 64.8 | Natural Gas Steam Turbine | NG | ST |
| 2023 | 12 | 14127 | Omaha Public Power District | Electric Utility | North Omaha | NE | 2291 | 2 | 90.8 | Natural Gas Steam Turbine | NG | ST |
| 2023 | 12 | 14127 | Omaha Public Power District | Electric Utility | North Omaha | NE | 2291 | 3 | 86.0 | Natural Gas Steam Turbine | NG | ST |
| 2023 | 12 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | A B Brown | IN | 6137 | 1 | 245.0 | Conventional Steam Coal | BIT | ST |
| 2023 | 12 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | A B Brown | IN | 6137 | 2 | 245.0 | Conventional Steam Coal | BIT | ST |
| 2023 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Nichols | TX | 3484 | 2 | 106.0 | Natural Gas Steam Turbine | NG | ST |
| 2024 | 7 | 1951 | White Pine Electric Power LLC | IPP | White Pine Electric Power | MI | 10148 | GEN3 | 18.0 | Natural Gas Steam Turbine | NG | ST |
| 2024 | 11 | 14328 | Pacific Gas & Electric Co. | Electric Utility | Diablo Canyon | CA | 6099 | 1 | 1,122.0 | Nuclear | NUC | ST |
| 2024 | 12 | 12384 | Midwest Generations EME LLC | IPP | Will County | IL | 884 | 4 | 510.0 | Conventional Steam Coal | SUB | ST |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Apple River | WI | 6231 | 1 | 0.4 | Conventional Hydroelectric | WAT | HY |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Apple River | WI | 6231 | 3 | 0.5 | Conventional Hydroelectric | WAT | HY |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Apple River | WI | 6231 | 4 | 0.5 | Conventional Hydroelectric | WAT | HY |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Granite City | MN | 1910 | 1 | 13.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Granite City | MN | 1910 | 2 | 13.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Granite City | MN | 1910 | 3 | 13.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Granite City | MN | 1910 | 4 | 13.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2024 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Sherburne County | MN | 6090 | 1 | 680.0 | Conventional Steam Coal | SUB | ST |
| 2024 | 12 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | F B Culley | IN | 1012 | 2 | 90.0 | Conventional Steam Coal | BIT | ST |
| 2024 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Plant X | TX | 3485 | 3 | 93.0 | Natural Gas Steam Turbine | NG | ST |
| 2025 | 8 | 13781 | Northern States Power Co - Minnesota | Electric Utility | White River (WI) | WI | 3989 | 1 | 0.2 | Conventional Hydroelectric | WAT | HY |
| 2025 | 8 | 13781 | Northern States Power Co - Minnesota | Electric Utility | White River (WI) | WI | 3989 | 2 | 0.2 | Conventional Hydroelectric | WAT | HY |
| 2025 | 8 | 14328 | Pacific Gas & Electric Co. | Electric Utility | Diablo Canyon | CA | 6099 | 2 | 1,118.0 | Nuclear | NUC | ST |
| 2025 | 9 | 17166 | Sierra Pacific Power Co | Electric Utility | Fort Churchill | NV | 2330 | 1 | 113.0 | Natural Gas Steam Turbine | NG | ST |
| 2025 | 11 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Trego | WI | 4012 | 1 | 0.4 | Conventional Hydroelectric | WAT | HY |
| 2025 | 11 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Trego | WI | 4012 | 2 | 0.3 | Conventional Hydroelectric | WAT | HY |
| 2025 | 12 | 56155 | Lansing Board of Water and Light | Electric Utility | Erickson Station | MI | 1832 | 1 | 154.5 | Conventional Steam Coal | SUB | ST |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Angus Anson | SD | 7237 | 1 | 90.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Angus Anson | SD | 7237 | 2 | 90.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Saxon Falls | WI | 1756 | 1 | 0.5 | Conventional Hydroelectric | WAT | HY |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Saxon Falls | WI | 1756 | 2 | 0.5 | Conventional Hydroelectric | WAT | HY |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Superior Falls | MI | 1757 | 1 | 0.5 | Conventional Hydroelectric | WAT | HY |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Superior Falls | MI | 1757 | 2 | 0.5 | Conventional Hydroelectric | WAT | HY |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Wheaton | WI | 4014 | 1 | 44.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Wheaton | WI | 4014 | 2 | 55.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Wheaton | WI | 4014 | 3 | 44.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Wheaton | WI | 4014 | 4 | 47.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Wheaton | WI | 4014 | 5 | 52.0 | Petroleum Liquids | DFO | GT |
| 2025 | 12 | 13781 | Northern States Power Co - Minnesota | Electric Utility | Wheaton | WI | 4014 | 6 | 48.0 | Petroleum Liquids | DFO | GT |
| 2025 | 12 | 15466 | Public Service Co of Colorado | Electric Utility | Comanche (CO) | CO | 470 | 2 | 335.0 | Conventional Steam Coal | SUB | ST |
| 2025 | 12 | 17166 | Sierra Pacific Power Co | Electric Utility | North Valmy | NV | 8224 | 1 | 254.0 | Conventional Steam Coal | SUB | ST |

**Table 6.6. Planned U.S. Electric Generating Unit Retirements**

| Year | Month | Entity ID | Entity Name | Plant Producer Type | Plant Name | Plant State | Plant ID | Generator ID | Net Summer Capacity (MW) | Technology | Energy Source Code | Prime Mover Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2025 | 12 | 17166 | Sierra Pacific Power Co | Electric Utility | North Valmy | NV | 8224 | 2 | 268.0 | Conventional Steam Coal | SUB | ST |
| 2025 | 12 | 17633 | Southern Indiana Gas & Elec Co | Electric Utility | Broadway (IN) | IN | 1011 | 2 | 65.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Cunningham | NM | 2454 | 2 | 183.0 | Natural Gas Steam Turbine | NG | ST |
| 2025 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Maddox | NM | 2446 | 2 | 61.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 17718 | Southwestern Public Service Co | Electric Utility | Maddox | NM | 2446 | 3 | 10.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2025 | 12 | 19099 | TransAlta Centralia Gen LLC | IPP | Transalta Centralia Generation | WA | 3845 | 2 | 670.0 | Conventional Steam Coal | RC | ST |
| 2025 | 12 | 30151 | Tri-State G & T Assn, Inc | Electric Utility | Craig (CO) | CO | 6021 | 1 | 428.0 | Conventional Steam Coal | SUB | ST |
| 2026 | 12 | 16604 | City of San Antonio - (TX) | Electric Utility | O W Sommers | TX | 3611 | 1 | 420.0 | Natural Gas Steam Turbine | NG | ST |
| 2026 | 12 | 5701 | El Paso Electric Co | Electric Utility | Newman | TX | 3456 | 3 | 102.0 | Natural Gas Steam Turbine | NG | ST |
| 2026 | 12 | 5701 | El Paso Electric Co | Electric Utility | Newman | TX | 3456 | 4 | 83.0 | Natural Gas Fired Combined Cycle | NG | CA |
| 2026 | 12 | 5701 | El Paso Electric Co | Electric Utility | Newman | TX | 3456 | CT1 | 72.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2026 | 12 | 5701 | El Paso Electric Co | Electric Utility | Newman | TX | 3456 | CT2 | 72.0 | Natural Gas Fired Combined Cycle | NG | CT |
| 2026 | 12 | 5860 | Empire District Electric Co | Electric Utility | Empire Energy Center | MO | 6223 | 2 | 82.0 | Natural Gas Fired Combustion Turbine | NG | GT |
| 2029 | 10 | 56667 | Loraine Windpower Project | IPP | Loraine Windpark Project LLC | TX | 57303 | LWG1 | 75.0 | Onshore Wind Turbine | WND | WT |
| 2047 | 1 | 60304 | Innovative Solar 31, LLC | IPP | Innovative Solar 31 | NC | 60540 | IS031 | 35.0 | Solar Photovoltaic | SUN | PV |
| 2047 | 7 | 60455 | PVN Milliken, LLC | IPP | PVN Milliken, LLC | CA | 60790 | PV | 3.0 | Solar Photovoltaic | SUN | PV |
| 2047 | 9 | 60734 | Elizabeth Mines Solar 1, LLC | IPP | Elizabeth Mines Solar 1 | VT | 61124 | EMS1 | 5.0 | Solar Photovoltaic | SUN | PV |

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

**Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-April 2018**

| | Coal | Natural Gas | | | | Petroleum | | |
|---|---|---|---|---|---|---|---|---|
| Period | | Natural Gas Fired Combined Cycle | Natural Gas Fired Combustion Turbine | Steam Turbine | Internal Combustion Engine | Steam Turbine | Petroleum Liquids Fired Combustion Turbine | Internal Combustion Engine |
| Annual Factors | | | | | | | | |
| 2013 | 59.8% | 48.2% | 4.9% | 10.6% | 6.1% | 12.1% | 0.8% | 2.2% |
| 2014 | 61.1% | 48.3% | 5.2% | 10.4% | 8.5% | 12.5% | 1.1% | 1.4% |
| 2015 | 54.7% | 55.9% | 6.9% | 11.5% | 8.9% | 13.3% | 1.1% | 2.2% |
| 2016 | 53.3% | 55.5% | 8.3% | 12.4% | 9.6% | 11.5% | 1.1% | 2.6% |
| 2017 | 53.5% | 54.8% | 9.4% | 11.3% | NA | 13.0% | 2.0% | NA |
| Year 2016 | | | | | | | | |
| January | 56.4% | 56.4% | 5.0% | 7.1% | 9.5% | 10.1% | 0.6% | 3.1% |
| February | 49.1% | 53.6% | 5.0% | 7.4% | 8.6% | 10.6% | 0.7% | 2.8% |
| March | 36.0% | 50.2% | 7.1% | 10.2% | 8.9% | 8.9% | 1.1% | 2.2% |
| April | 37.8% | 47.6% | 8.3% | 11.7% | 9.2% | 9.7% | 0.8% | 2.1% |
| May | 41.6% | 52.5% | 7.6% | 12.3% | 9.3% | 11.4% | 1.1% | 2.5% |
| June | 61.2% | 63.9% | 9.9% | 17.5% | 10.3% | 13.3% | 1.3% | 2.1% |
| July | 69.8% | 68.2% | 13.7% | 23.1% | 11.7% | 16.9% | 2.1% | 2.1% |
| August | 69.3% | 70.8% | 13.8% | 21.1% | 12.7% | 15.1% | 2.6% | 2.3% |
| Sept | 60.4% | 60.7% | 9.5% | 14.6% | 10.3% | 12.9% | 1.2% | 2.3% |
| October | 50.8% | 47.8% | 7.8% | 11.4% | 8.0% | 8.8% | 0.9% | 2.4% |
| November | 46.2% | 46.3% | 6.8% | 6.5% | 7.9% | 9.9% | 0.7% | 2.8% |
| December | 61.2% | 47.5% | 5.1% | 5.4% | 8.3% | 10.1% | 0.5% | 4.0% |
| Year 2017 | | | | | | | | |
| January | 59.5% | 50.4% | 6.6% | 4.3% | NA | 10.7% | 1.6% | NA |
| February | 49.4% | 48.2% | 6.9% | 3.9% | NA | 9.5% | 2.0% | NA |
| March | 46.1% | 48.1% | 9.8% | 7.8% | NA | 12.9% | 2.1% | NA |
| April | 43.7% | 45.8% | 8.3% | 8.6% | NA | 9.5% | 1.2% | NA |
| May | 48.3% | 49.4% | 9.0% | 9.9% | NA | 15.4% | 1.9% | NA |
| June | 58.4% | 60.1% | 9.9% | 15.4% | NA | 15.3% | 1.8% | NA |
| July | 67.1% | 70.2% | 12.8% | 21.4% | NA | 18.1% | 2.1% | NA |
| August | 62.9% | 69.3% | 11.0% | 18.5% | NA | 14.3% | 2.2% | NA |
| Sept | 53.4% | 58.9% | 11.7% | 15.4% | NA | 13.5% | 3.0% | NA |
| October | 47.5% | 51.2% | 10.0% | 14.3% | NA | 11.1% | 2.6% | NA |
| November | 49.3% | 48.6% | 8.2% | 6.8% | NA | 12.7% | 1.5% | NA |
| December | 56.1% | 55.3% | 8.1% | 8.8% | NA | 13.5% | 1.5% | NA |
| Year 2018 | | | | | | | | |
| January | 63.8% | 54.0% | 12.7% | 11.8% | NA | 18.2% | 5.0% | NA |
| February | 49.3% | 55.1% | 7.8% | 5.8% | NA | 11.2% | 0.9% | NA |
| March | 43.8% | 51.6% | 10.3% | 8.0% | NA | 10.4% | 1.4% | NA |
| April | 41.8% | 48.1% | 12.2% | 8.1% | NA | 12.5% | 1.9% | NA |

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available

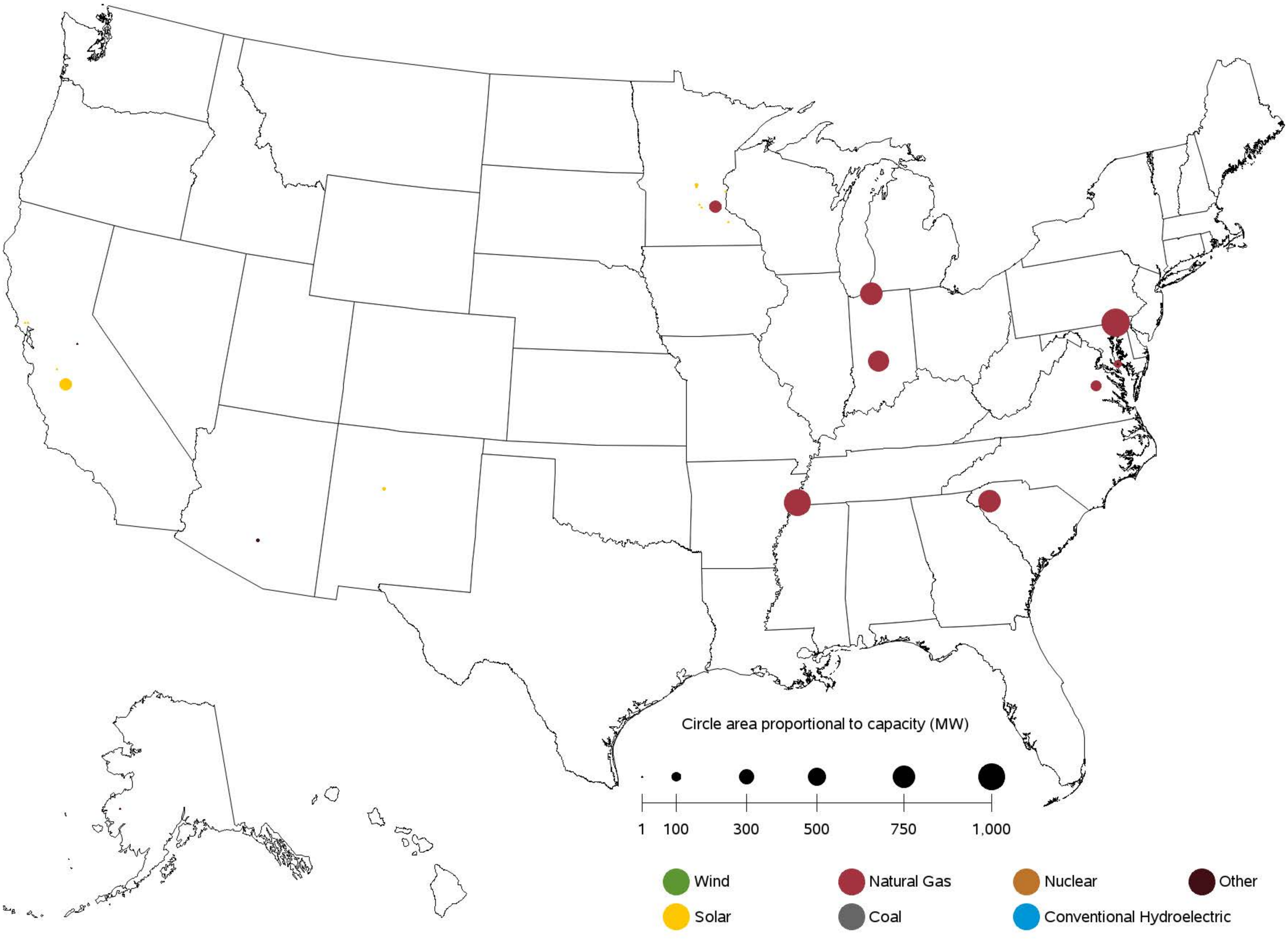
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

**Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-April 2018**

| Period | Nuclear | Conventional Hydropower | Wind | Solar Photovoltaic | Solar Thermal | Landfill Gas and Muncipal Solid Waste | Other Biomass Including Wood | Geothermal |
|---|---|---|---|---|---|---|---|---|
| Annual Factors | | | | | | | | |
| 2013 | 89.9% | 38.9% | 32.4% | NA | NA | 68.9% | 56.7% | 73.6% |
| 2014 | 91.7% | 37.3% | 34.0% | 25.9% | 19.8% | 68.9% | 58.9% | 74.0% |
| 2015 | 92.3% | 35.8% | 32.2% | 25.8% | 22.1% | 68.7% | 55.3% | 74.3% |
| 2016 | 92.3% | 38.2% | 34.5% | 25.1% | 22.2% | 69.7% | 55.6% | 73.9% |
| 2017 | 92.2% | 45.2% | 36.7% | 27.0% | 21.8% | 70.9% | 50.7% | 76.4% |
| Year 2016 | | | | | | | | |
| January | 98.5% | 43.6% | 33.9% | 15.2% | 6.8% | 68.3% | 58.5% | 73.4% |
| February | 95.3% | 43.8% | 39.6% | 22.9% | 19.5% | 67.6% | 61.2% | 73.2% |
| March | 89.9% | 45.9% | 40.2% | 24.9% | 19.6% | 67.2% | 55.8% | 72.5% |
| April | 88.1% | 44.6% | 39.3% | 27.2% | 20.9% | 69.3% | 45.8% | 68.8% |
| May | 90.5% | 42.8% | 34.2% | 30.2% | 28.9% | 72.9% | 47.0% | 73.9% |
| June | 94.2% | 40.6% | 30.5% | 30.3% | 33.5% | 72.0% | 54.7% | 71.2% |
| July | 94.5% | 36.1% | 31.9% | 31.7% | 36.9% | 70.9% | 59.3% | 72.2% |
| August | 96.1% | 33.0% | 24.5% | 31.7% | 29.2% | 70.3% | 63.5% | 73.0% |
| Sept | 90.9% | 28.6% | 30.4% | 28.5% | 30.2% | 67.9% | 58.5% | 75.5% |
| October | 81.7% | 29.3% | 36.4% | 24.0% | 19.1% | 63.8% | 48.9% | 74.6% |
| November | 90.9% | 32.8% | 35.3% | 20.4% | 14.4% | 72.6% | 54.9% | 77.7% |
| December | 96.7% | 37.9% | 38.8% | 16.2% | 7.0% | 73.4% | 59.6% | 80.1% |
| Year 2017 | | | | | | | | |
| January | 98.7% | 48.4% | 36.6% | 16.8% | 7.3% | 75.4% | 49.3% | 79.7% |
| February | 94.9% | 47.8% | 42.5% | 19.8% | 11.7% | 71.6% | 55.5% | 77.9% |
| March | 87.8% | 54.1% | 44.6% | 27.8% | 22.9% | 67.7% | 51.8% | 74.9% |
| April | 79.1% | 53.9% | 44.9% | 31.0% | 24.9% | 67.9% | 51.2% | 78.6% |
| May | 82.7% | 56.8% | 38.7% | 34.1% | 31.0% | 70.6% | 47.0% | 74.0% |
| June | 93.4% | 57.1% | 34.5% | 35.7% | 37.9% | 72.6% | 49.1% | 75.2% |
| July | 96.2% | 46.2% | 27.5% | 33.7% | 25.4% | 71.3% | 51.0% | 78.0% |
| August | 97.6% | 37.9% | 22.3% | 31.2% | 27.6% | 72.7% | 49.0% | 77.4% |
| Sept | 94.9% | 34.7% | 31.5% | 29.6% | 29.2% | 69.3% | 48.2% | 77.8% |
| October | 89.0% | 30.2% | 41.6% | 26.6% | 24.1% | 67.0% | 52.4% | 69.3% |
| November | 92.9% | 35.3% | 39.4% | 20.1% | 10.3% | 71.1% | 51.5% | 76.6% |
| December | 99.4% | 40.0% | 37.2% | 17.4% | 9.0% | 73.3% | 52.7% | 77.4% |
| Year 2018 | | | | | | | | |
| January | 100.7% | 44.9% | 42.5% | 18.7% | 10.0% | 72.1% | 54.9% | 76.4% |
| February | 96.8% | 48.8% | 41.9% | 22.8% | 16.1% | 76.5% | 57.2% | 80.6% |
| March | 90.4% | 44.8% | 44.0% | 26.2% | 19.3% | 72.8% | 52.3% | 78.4% |
| April | 82.4% | 49.7% | 44.9% | 31.2% | 24.4% | 71.6% | 43.9% | 70.5% |

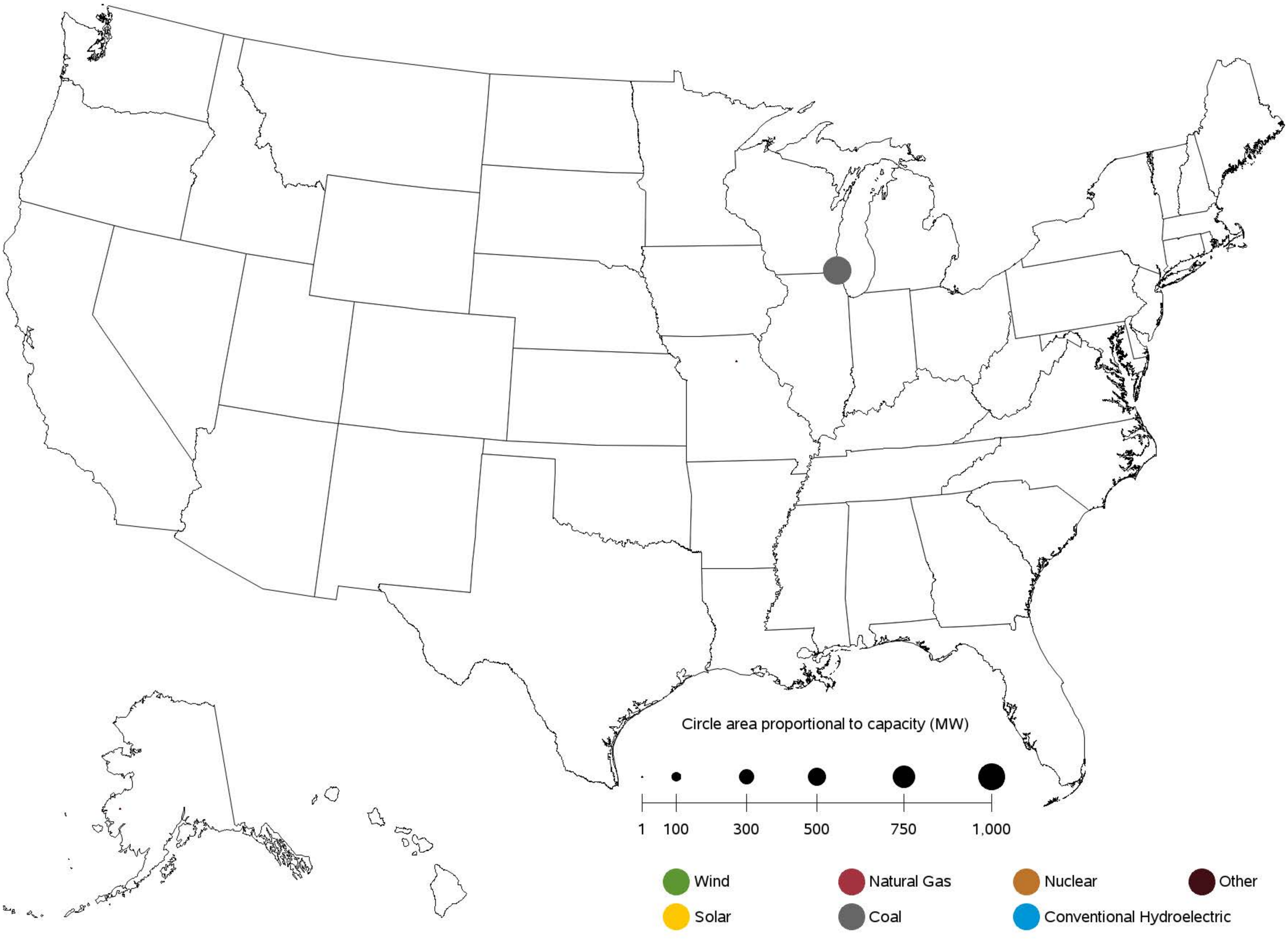
Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in April 2018



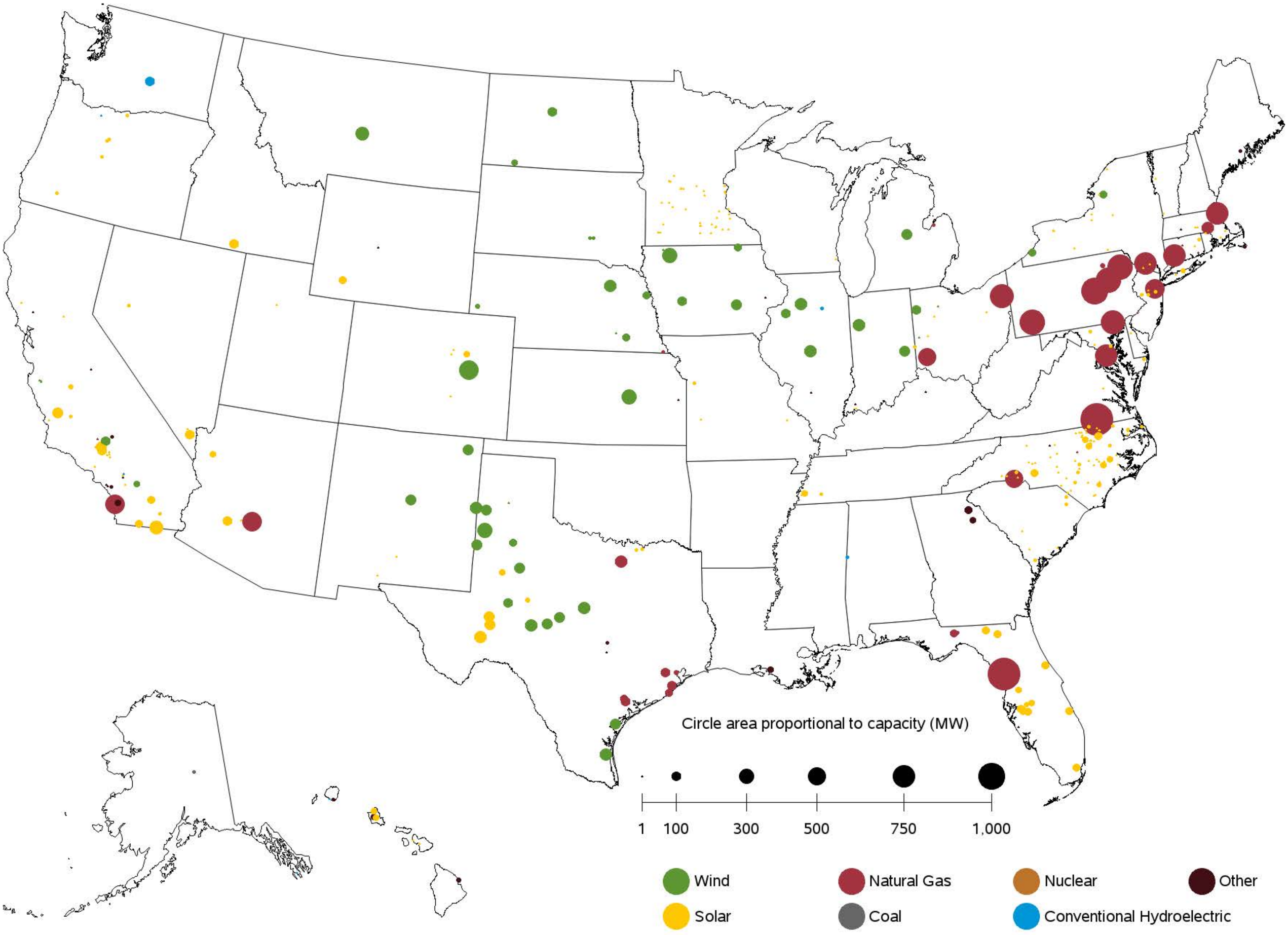

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in April 2018



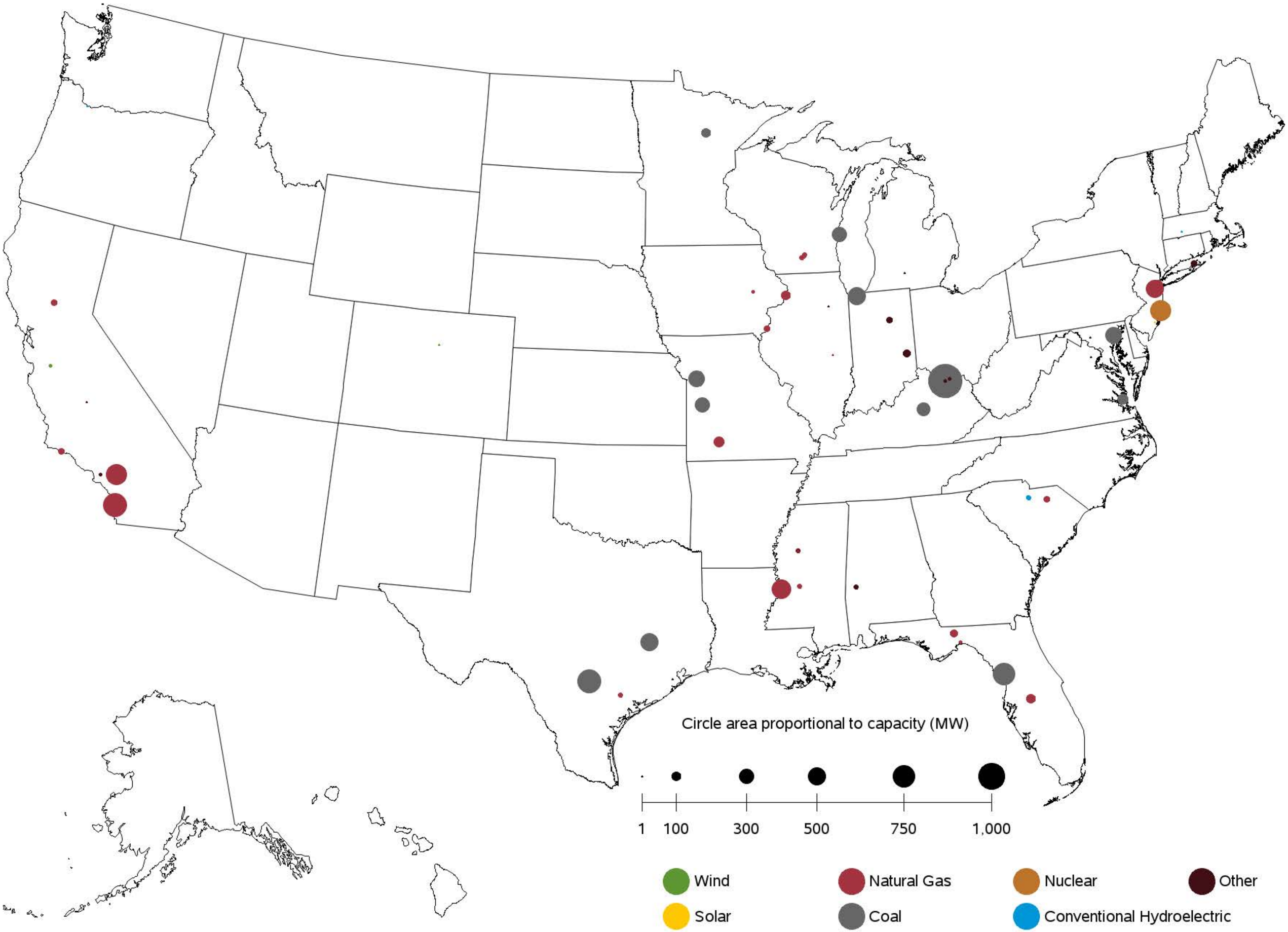

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from May 2018 to April 2019




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.'

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from May 2018 to April 2019




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 7.1. Electric Power Industry - U.S. Electricity Imports from and Electricity Exports to Canada and Mexico (Megawatthours)**

| | Canada | | Mexico | | U.S. Total | | |
|---|---|---|---|---|---|---|---|
| Period | Imports from | Exports to | Imports from | Exports to | Imports | Exports | Net Imports |
| Annual Totals | | | | | | | |
| 2016 | 65,173,818 | 2,682,381 | 7,542,445 | 3,531,636 | 72,716,263 | 6,214,017 | 66,502,246 |
| 2017 | 45,738,475 | 2,668,289 | 1,962,925 | 6,658,184 | 47,701,400 | 9,326,473 | 38,374,927 |
| Year 2016 | | | | | | | |
| January | 5,886,417 | 227,589 | 636,613 | 161,007 | 6,523,030 | 388,596 | 6,134,434 |
| February | 4,927,541 | 384,301 | 505,252 | 167,788 | 5,432,793 | 552,089 | 4,880,704 |
| March | 5,210,412 | 410,645 | 598,334 | 260,086 | 5,808,746 | 670,731 | 5,138,015 |
| April | 4,092,342 | 358,746 | 610,099 | 91,608 | 4,702,441 | 450,354 | 4,252,087 |
| May | 4,977,621 | 142,398 | 583,132 | 227,227 | 5,560,753 | 369,625 | 5,191,128 |
| June | 6,162,812 | 94,538 | 585,652 | 515,952 | 6,748,464 | 610,490 | 6,137,974 |
| July | 6,969,110 | 78,459 | 704,978 | 496,360 | 7,674,088 | 574,819 | 7,099,269 |
| August | 6,577,610 | 149,565 | 771,285 | 437,154 | 7,348,895 | 586,719 | 6,762,176 |
| Sept | 4,631,320 | 161,183 | 666,113 | 425,652 | 5,297,433 | 586,835 | 4,710,598 |
| October | 4,989,801 | 320,694 | 761,195 | 111,790 | 5,750,996 | 432,484 | 5,318,512 |
| November | 5,809,773 | 109,219 | 611,189 | 307,814 | 6,420,962 | 417,033 | 6,003,929 |
| December | 4,939,059 | 245,044 | 508,603 | 329,198 | 5,447,662 | 574,242 | 4,873,420 |
| Year 2017 | | | | | | | |
| January | 5,277,771 | 172,909 | 325,772 | 658,237 | 5,603,543 | 831,146 | 4,772,397 |
| February | 4,131,760 | 359,401 | 282,486 | 600,378 | 4,414,246 | 959,779 | 3,454,467 |
| March | 4,598,818 | 663,648 | 223,689 | 521,388 | 4,822,507 | 1,185,036 | 3,637,471 |
| April | 5,262,194 | 619,414 | 207,404 | 579,407 | 5,469,598 | 1,198,821 | 4,270,777 |
| May | 4,912,110 | 341,657 | 129,523 | 532,294 | 5,041,633 | 873,951 | 4,167,682 |
| June | 5,637,814 | 242,997 | 104,319 | 819,173 | 5,742,133 | 1,062,170 | 4,679,963 |
| July | 5,328,084 | 65,828 | 253,399 | 974,208 | 5,581,483 | 1,040,036 | 4,541,447 |
| August | 5,874,172 | 63,435 | 276,687 | 1,067,167 | 6,150,859 | 1,130,602 | 5,020,257 |
| Sept | 4,715,752 | 139,000 | 159,646 | 905,932 | 4,875,398 | 1,044,932 | 3,830,466 |

Source: U.S. Energy Information Administration, Form EIA-111, "Quarterly Electricity Imports and Exports Report."

**Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers:**
**Total by End-Use Sector, 2008 - April 2018 (Thousand Megawatthours)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| **Annual Totals** | | | | | |
| 2008 | 6,473 | 9,023 | 3,544 | 0 | 19,040 |
| 2009 | 6,673 | 8,937 | 3,094 | 0 | 18,704 |
| 2010 | 6,975 | 9,041 | 2,968 | 0 | 18,984 |
| 2011 | 6,587 | 8,832 | 2,832 | 0 | 18,251 |
| 2012 | 6,771 | 8,879 | 2,500 | 0 | 18,150 |
| 2013 | 6,320 | 8,969 | 2,504 | 0 | 17,793 |
| 2014 | 6,218 | 8,761 | 2,376 | 0 | 17,356 |
| 2015 | 6,314 | 8,586 | 2,355 | 0 | 17,255 |
| 2016 | 6,524 | 8,569 | 2,251 | 0 | 17,344 |
| 2017 | 5,060 | 7,024 | 1,752 | 0 | 13,837 |
| **Year 2016** | | | | | |
| January | 515 | 648 | 158 | 0 | 1,321 |
| February | 447 | 647 | 176 | 0 | 1,270 |
| March | 499 | 738 | 208 | 0 | 1,445 |
| April | 506 | 665 | 176 | 0 | 1,346 |
| May | 556 | 746 | 202 | 0 | 1,504 |
| June | 594 | 742 | 201 | 0 | 1,537 |
| July | 621 | 773 | 193 | 0 | 1,587 |
| August | 604 | 722 | 205 | 0 | 1,530 |
| Sept | 594 | 751 | 187 | 0 | 1,532 |
| October | 540 | 704 | 180 | 0 | 1,424 |
| November | 541 | 723 | 190 | 0 | 1,454 |
| December | 509 | 709 | 176 | 0 | 1,394 |
| **Year 2017** | | | | | |
| January | 509 | 670 | 160 | 0 | 1,339 |
| February | 397 | 594 | 154 | 0 | 1,145 |
| March | 492 | 720 | 192 | 0 | 1,404 |
| April | 496 | 648 | 185 | 0 | 1,329 |
| May | 527 | 697 | 182 | 0 | 1,406 |
| June | 597 | 714 | 185 | 0 | 1,496 |
| July | 592 | 732 | 201 | 0 | 1,525 |
| August | 634 | 741 | 187 | 0 | 1,563 |
| Sept | 521 | 384 | 128 | 0 | 1,033 |
| October | 16 | 229 | 11 | 0 | 256 |
| November | 42 | 578 | 28 | 0 | 648 |
| December | 238 | 316 | 139 | 0 | 692 |
| **Year 2018** | | | | | |
| January | 389 | 558 | 142 | 0 | 1,089 |
| February | 393 | 760 | 175 | 0 | 1,328 |
| March | 450 | 531 | 98 | 0 | 1,080 |
| April | 466 | 784 | 273 | 0 | 1,524 |
| **Year to Date** | | | | | |
| 2016 | 1,966 | 2,697 | 718 | 0 | 5,382 |
| 2017 | 1,893 | 2,633 | 690 | 0 | 5,216 |
| 2018 | 1,699 | 2,634 | 688 | 0 | 5,020 |
| **Rolling 12 Months Ending in April** | | | | | |
| 2017 | 6,452 | 8,504 | 2,223 | 0 | 17,179 |
| 2018 | 4,866 | 7,025 | 1,749 | 0 | 13,640 |

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

**Table 8.2 Puerto Rico- Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - April 2018 (Million Dollars)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| **Annual Totals** | | | | | |
| 2008 | 1,574 | 2,285 | 734 | 0 | 4,593 |
| 2009 | 1,313 | 1,868 | 518 | 0 | 3,699 |
| 2010 | 1,521 | 2,103 | 564 | 0 | 4,188 |
| 2011 | 1,748 | 2,483 | 663 | 0 | 4,894 |
| 2012 | 1,690 | 2,605 | 647 | 0 | 4,942 |
| 2013 | 1,633 | 2,474 | 570 | 0 | 4,678 |
| 2014 | 1,636 | 2,394 | 551 | 0 | 4,581 |
| 2015 | 1,282 | 1,850 | 417 | 0 | 3,549 |
| 2016 | 1,170 | 1,677 | 356 | 0 | 3,203 |
| 2017 | 1,008 | 1,545 | 328 | 0 | 2,881 |
| **Year 2016** | | | | | |
| January | 86 | 120 | 23 | 0 | 229 |
| February | 75 | 118 | 25 | 0 | 218 |
| March | 79 | 131 | 29 | 0 | 239 |
| April | 86 | 124 | 26 | 0 | 235 |
| May | 91 | 139 | 29 | 0 | 259 |
| June | 103 | 141 | 30 | 0 | 274 |
| July | 110 | 150 | 30 | 0 | 291 |
| August | 118 | 154 | 36 | 0 | 308 |
| Sept | 111 | 146 | 31 | 0 | 288 |
| October | 108 | 155 | 33 | 0 | 296 |
| November | 102 | 147 | 32 | 0 | 282 |
| December | 101 | 152 | 31 | 0 | 284 |
| **Year 2017** | | | | | |
| January | 102 | 142 | 30 | 0 | 273 |
| February | 90 | 143 | 31 | 0 | 264 |
| March | 96 | 151 | 34 | 0 | 280 |
| April | 99 | 143 | 34 | 0 | 276 |
| May | 108 | 157 | 34 | 0 | 299 |
| June | 117 | 151 | 33 | 0 | 302 |
| July | 118 | 160 | 36 | 0 | 315 |
| August | 130 | 166 | 35 | 0 | 331 |
| Sept | 91 | 74 | 21 | 0 | 186 |
| October | 3 | 46 | 2 | 0 | 51 |
| November | 8 | 115 | 5 | 0 | 128 |
| December | 45 | 98 | 34 | 0 | 177 |
| **Year 2018** | | | | | |
| January | 86 | 159 | 32 | 0 | 277 |
| February | 76 | 171 | 32 | 0 | 279 |
| March | 110 | 149 | 22 | 0 | 280 |
| April | 84 | 161 | 54 | 0 | 300 |
| **Year to Date** | | | | | |
| 2016 | 326 | 493 | 103 | 0 | 921 |
| 2017 | 387 | 579 | 128 | 0 | 1,094 |
| 2018 | 356 | 640 | 140 | 0 | 1,136 |
| **Rolling 12 Months Ending in April** | | | | | |
| 2017 | 1,231 | 1,763 | 382 | 0 | 3,376 |
| 2018 | 977 | 1,606 | 340 | 0 | 2,923 |

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

**Table 8.3 Puerto Rico- Number of Ultimate Customers Served by Sector:**
**Total by End-Use Sector, 2008 - April 2018**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| **Annual Totals** | | | | | |
| 2008 | 1,318,498 | 133,223 | 1,225 | 0 | 1,452,946 |
| 2009 | 1,330,507 | 132,620 | 828 | 0 | 1,463,955 |
| 2010 | 1,339,703 | 133,029 | 790 | 0 | 1,473,522 |
| 2011 | 1,341,708 | 132,738 | 750 | 0 | 1,475,196 |
| 2012 | 1,349,750 | 131,264 | 721 | 0 | 1,481,735 |
| 2013 | 1,340,989 | 131,034 | 694 | 0 | 1,472,717 |
| 2014 | 1,328,546 | 129,122 | 662 | 0 | 1,458,330 |
| 2015 | 1,326,631 | 127,365 | 647 | 0 | 1,454,643 |
| 2016 | 1,332,152 | 127,179 | 633 | 0 | 1,459,964 |
| 2017 | 1,337,741 | 127,064 | 617 | 0 | 1,465,421 |
| **Year 2016** | | | | | |
| January | 1,327,936 | 127,058 | 640 | 0 | 1,455,634 |
| February | 1,328,227 | 127,040 | 637 | 0 | 1,455,904 |
| March | 1,329,387 | 127,155 | 636 | 0 | 1,457,178 |
| April | 1,331,140 | 127,236 | 635 | 0 | 1,459,011 |
| May | 1,332,103 | 127,264 | 636 | 0 | 1,460,003 |
| June | 1,332,712 | 127,158 | 635 | 0 | 1,460,505 |
| July | 1,333,672 | 127,327 | 633 | 0 | 1,461,632 |
| August | 1,333,858 | 127,218 | 631 | 0 | 1,461,707 |
| Sept | 1,331,317 | 126,967 | 627 | 0 | 1,458,911 |
| October | 1,334,555 | 127,221 | 626 | 0 | 1,462,402 |
| November | 1,335,163 | 127,237 | 629 | 0 | 1,463,029 |
| December | 1,335,753 | 127,265 | 627 | 0 | 1,463,645 |
| **Year 2017** | | | | | |
| January | 1,336,466 | 127,250 | 626 | 0 | 1,464,342 |
| February | 1,337,086 | 127,228 | 625 | 0 | 1,464,939 |
| March | 1,335,398 | 127,146 | 619 | 0 | 1,463,163 |
| April | 1,337,149 | 127,085 | 619 | 0 | 1,464,853 |
| May | 1,337,941 | 127,047 | 617 | 0 | 1,465,605 |
| June | 1,339,358 | 127,118 | 615 | 0 | 1,467,091 |
| July | 1,338,876 | 127,048 | 613 | 0 | 1,466,537 |
| August | 1,337,743 | 127,025 | 614 | 0 | 1,465,382 |
| Sept | 1,338,958 | 127,055 | 614 | 0 | 1,466,627 |
| October | 1,337,246 | 126,947 | 614 | 0 | 1,464,807 |
| November | 1,338,102 | 126,940 | 612 | 0 | 1,465,654 |
| December | 1,338,568 | 126,876 | 611 | 0 | 1,466,055 |
| **Year 2018** | | | | | |
| January | 1,338,417 | 126,681 | 611 | 0 | 1,465,709 |
| February | 1,337,561 | 126,422 | 612 | 0 | 1,464,595 |
| March | 1,338,960 | 126,367 | 613 | 0 | 1,465,940 |
| April | 1,339,727 | 126,216 | 612 | 0 | 1,466,555 |
| **Rolling 12 Months Ending in April** | | | | | |
| 2017 | 1,334,603 | 127,197 | 628 | 0 | 1,462,428 |
| 2018 | 1,338,455 | 126,812 | 613 | 0 | 1,465,880 |

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

**Table 8.4 Puerto Rico- Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - April 2018 (Cents per Kilowatthour)**

| Period | Residential | Commercial | Industrial | Transportation | All Sectors |
|---|---|---|---|---|---|
| **Annual Totals** | | | | | |
| 2008 | 24.32 | 25.32 | 20.72 | -- | 24.12 |
| 2009 | 19.68 | 20.91 | 16.73 | -- | 19.78 |
| 2010 | 21.80 | 23.26 | 19.01 | -- | 22.06 |
| 2011 | 26.54 | 28.11 | 23.39 | -- | 26.82 |
| 2012 | 24.96 | 29.34 | 25.89 | -- | 27.23 |
| 2013 | 25.84 | 27.59 | 22.77 | -- | 26.29 |
| 2014 | 26.31 | 27.33 | 23.18 | -- | 26.39 |
| 2015 | 20.31 | 21.55 | 17.71 | -- | 20.57 |
| 2016 | 17.93 | 19.57 | 15.83 | -- | 18.47 |
| 2017 | 19.91 | 22.00 | 18.73 | -- | 20.82 |
| **Year 2016** | | | | | |
| January | 16.78 | 18.54 | 14.39 | -- | 17.36 |
| February | 16.74 | 18.31 | 14.23 | -- | 17.19 |
| March | 15.90 | 17.70 | 14.02 | -- | 16.55 |
| April | 16.91 | 18.58 | 14.52 | -- | 17.42 |
| May | 16.33 | 18.63 | 14.61 | -- | 17.24 |
| June | 17.32 | 19.01 | 15.12 | -- | 17.85 |
| July | 17.78 | 19.39 | 15.74 | -- | 18.31 |
| August | 19.50 | 21.38 | 17.42 | -- | 20.11 |
| Sept | 18.66 | 19.42 | 16.61 | -- | 18.78 |
| October | 20.07 | 22.02 | 18.35 | -- | 20.82 |
| November | 18.88 | 20.34 | 17.04 | -- | 19.37 |
| December | 19.79 | 21.45 | 17.90 | -- | 20.40 |
| **Year 2017** | | | | | |
| January | 20.01 | 21.16 | 18.50 | -- | 20.40 |
| February | 22.71 | 24.01 | 20.18 | -- | 23.05 |
| March | 19.43 | 20.96 | 17.51 | -- | 19.95 |
| April | 20.06 | 22.13 | 18.16 | -- | 20.80 |
| May | 20.51 | 22.49 | 18.76 | -- | 21.27 |
| June | 19.63 | 21.18 | 17.91 | -- | 20.16 |
| July | 19.93 | 21.87 | 18.17 | -- | 20.63 |
| August | 20.47 | 22.39 | 18.64 | -- | 21.16 |
| Sept | 17.51 | 19.24 | 16.12 | -- | 17.98 |
| October | 19.09 | 19.91 | 18.17 | -- | 19.78 |
| November | 18.76 | 19.91 | 18.17 | -- | 19.76 |
| December | 19.07 | 30.87 | 24.37 | -- | 25.52 |
| **Year 2018** | | | | | |
| January | 22.11 | 28.53 | 22.32 | -- | 25.43 |
| February | 19.32 | 22.48 | 18.45 | -- | 21.02 |
| March | 24.40 | 27.97 | 22.42 | -- | 25.97 |
| April | 18.09 | 20.56 | 19.86 | -- | 19.68 |
| **Year to Date** | | | | | |
| 2016 | 16.58 | 18.26 | 14.28 | -- | 17.12 |
| 2017 | 20.44 | 21.99 | 18.51 | -- | 20.96 |
| 2018 | 20.97 | 24.30 | 20.37 | -- | 22.63 |
| **Rolling 12 Months Ending in April** | | | | | |
| 2017 | 19.08 | 20.74 | 17.16 | -- | 19.65 |
| 2018 | 20.08 | 22.86 | 19.46 | -- | 21.43 |

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

**Table 8.5. Net Summer Capacity (MW) of Existing Utility Scale Units by Technology for Puerto Rico, 2007-April 2018**

| Period | Coal | Hydroelectric Conventional | Natural Gas | Other | Petroleum | Solar | Wind | Total |
|---|---|---|---|---|---|---|---|---|
| Annual Totals | | | | | | | | |
| 2007 | 454 | 98 | 1,324 | 0 | 3,343 | 3 | 0 | 5,221 |
| 2008 | 454 | 98 | 1,324 | 0 | 4,087 | 3 | 0 | 5,966 |
| 2009 | 454 | 98 | 1,324 | 0 | 4,152 | 3 | 0 | 6,031 |
| 2010 | 454 | 98 | 1,324 | 0 | 4,152 | 3 | 0 | 6,031 |
| 2011 | 454 | 98 | 1,324 | 0 | 4,152 | 8 | 0 | 6,036 |
| 2012 | 454 | 98 | 1,324 | 0 | 4,152 | 25 | 98 | 6,152 |
| 2013 | 454 | 98 | 1,324 | 0 | 4,152 | 27 | 98 | 6,154 |
| 2014 | 454 | 98 | 1,324 | 0 | 4,152 | 38 | 99 | 6,165 |
| 2015 | 454 | 98 | 1,324 | 9 | 4,156 | 70 | 99 | 6,210 |
| 2016 | 454 | 98 | 1,324 | 33 | 4,156 | 145 | 99 | 6,309 |
| 2017 | 454 | 98 | 1,324 | 33 | 4,156 | 145 | 99 | 6,309 |
| Year 2018 | | | | | | | | |
| January | 454 | 98 | 1,324 | 33 | 4,131 | 140 | 99 | 6,280 |
| February | 454 | 98 | 1,324 | 33 | 4,131 | 140 | 99 | 6,280 |
| March | 454 | 98 | 1,324 | 33 | 4,131 | 143 | 99 | 6,282 |
| April | 454 | 98 | 1,324 | 33 | 4,156 | 143 | 99 | 6,307 |

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report.

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 A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, April 2018**

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **1** | **6** | **0** | **3** | **0** | **0** | **11** |
| Connecticut | 0 | 27 | 0 | 2 | 0 | 0 | 41 |
| Maine | 28 | 23 | 0 | 21 | 0 | 0 | 13 |
| Massachusetts | 0 | 4 | 0 | 6 | 0 | 0 | 26 |
| New Hampshire | 0 | 12 | 0 | 0 | 0 | 0 | 24 |
| Rhode Island | 0 | 60 | 0 | 13 | 0 | 0 | 0 |
| Vermont | 0 | 37 | 0 | 0 | 0 | 0 | 21 |
| **Middle Atlantic** | **3** | **6** | **134** | **1** | **31** | **0** | **3** |
| New Jersey | 0 | 12 | 0 | 3 | 0 | 0 | 61 |
| New York | 0 | 7 | 0 | 3 | 0 | 0 | 2 |
| Pennsylvania | 3 | 10 | 134 | 1 | 50 | 0 | 15 |
| **East North Central** | **1** | **4** | **0** | **2** | **10** | **0** | **12** |
| Illinois | 0 | 5 | 0 | 7 | 0 | 0 | 41 |
| Indiana | 1 | 3 | 0 | 3 | 18 | 0 | 33 |
| Michigan | 4 | 7 | 0 | 2 | 0 | 0 | 23 |
| Ohio | 1 | 2 | 0 | 1 | 30 | 0 | 31 |
| Wisconsin | 1 | 31 | 0 | 9 | 0 | 0 | 17 |
| **West North Central** | **1** | **10** | **0** | **8** | **0** | **0** | **9** |
| Iowa | 1 | 14 | 0 | 8 | 0 | 0 | 31 |
| Kansas | 3 | 7 | 0 | 27 | 0 | 0 | 0 |
| Minnesota | 5 | 48 | 0 | 12 | 0 | 0 | 27 |
| Missouri | 0 | 4 | 0 | 12 | 0 | 0 | 19 |
| Nebraska | 5 | 97 | 0 | 76 | 0 | 0 | 23 |
| North Dakota | 0 | 10 | 0 | 49 | 0 | 0 | 20 |
| South Dakota | 0 | 66 | 0 | 57 | 0 | 0 | 13 |
| **South Atlantic** | **1** | **4** | **14** | **1** | **0** | **0** | **8** |
| Delaware | 0 | 108 | 0 | 8 | 0 | 0 | 0 |
| District of Columbia | 0 | 278 | 0 | 89 | 0 | 0 | 0 |
| Florida | 0 | 7 | 0 | 1 | 0 | 0 | 52 |
| Georgia | 1 | 22 | 65 | 5 | 0 | 0 | 14 |
| Maryland | 0 | 7 | 0 | 4 | 0 | 0 | 2 |
| North Carolina | 4 | 12 | 0 | 4 | 0 | 0 | 13 |
| South Carolina | 0 | 10 | 0 | 7 | 0 | 0 | 17 |
| Virginia | 5 | 8 | 0 | 5 | 0 | 0 | 18 |
| West Virginia | 1 | 0 | 0 | 16 | 0 | 0 | 19 |
| **East South Central** | **0** | **11** | **0** | **1** | **63** | **0** | **6** |
| Alabama | 0 | 86 | 0 | 2 | 97 | 0 | 8 |
| Kentucky | 0 | 1 | 0 | 4 | 0 | 0 | 13 |
| Mississippi | 0 | 8 | 0 | 2 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 5 | 0 | 0 | 9 |
| **West South Central** | **0** | **3** | **1** | **2** | **5** | **0** | **9** |
| Arkansas | 0 | 6 | 0 | 5 | 0 | 0 | 12 |
| Louisiana | 0 | 5 | 0 | 2 | 12 | 0 | 21 |
| Oklahoma | 0 | 1 | 0 | 4 | 0 | 0 | 14 |
| Texas | 0 | 6 | 41 | 2 | 4 | 0 | 19 |
| **Mountain** | **2** | **7** | **0** | **1** | **0** | **0** | **5** |
| Arizona | 0 | 3 | 0 | 1 | 0 | 0 | 5 |
| Colorado | 0 | 37 | 0 | 2 | 0 | 0 | 19 |
| Idaho | 104 | 0 | 0 | 37 | 0 | 0 | 10 |
| Montana | 8 | 52 | 0 | 54 | 0 | 0 | 9 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| New Mexico | 0 | 75 | 0 | 3 | 0 | 0 | 75 |
| Utah | 0 | 1 | 0 | 4 | 0 | 0 | 32 |
| Wyoming | 5 | 1 | 0 | 16 | 0 | 0 | 28 |
| **Pacific Contiguous** | **0** | **22** | **0** | **2** | **2** | **0** | **2** |
| California | 0 | 24 | 0 | 1 | 3 | 0 | 5 |
| Oregon | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| Washington | 0 | 53 | 0 | 11 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **19** | **1** | **0** | **31** | **0** | **0** | **21** |
| Alaska | 68 | 4 | 0 | 31 | 0 | 0 | 22 |
| Hawaii | 0 | 1 | 0 | 0 | 0 | 0 | 27 |
| **U.S. Total** | **0** | **1** | **3** | **1** | **5** | **0** | **2** |

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.

**Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:**

**Total (All Sectors) by Census Division and State, April 2018 (Continued)**

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **7** | **7** | **0** | **1** | **2** |
| Connecticut | 0 | 0 | 0 | 27 | 21 | 0 | 0 | 1 |
| Maine | 0 | 0 | 0 | 89 | 8 | 0 | 0 | 7 |
| Massachusetts | 0 | 0 | 0 | 8 | 6 | 0 | 2 | 4 |
| New Hampshire | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 3 |
| Rhode Island | 0 | 0 | 0 | 48 | 8 | 0 | 0 | 12 |
| Vermont | 0 | 0 | 0 | 24 | 15 | 0 | 0 | 14 |
| **Middle Atlantic** | **0** | **0** | **0** | **7** | **2** | **0** | **1** | **1** |
| New Jersey | 0 | 0 | 0 | 8 | 5 | 0 | 0 | 2 |
| New York | 0 | 0 | 0 | 16 | 3 | 0 | 2 | 1 |
| Pennsylvania | 0 | 0 | 0 | 28 | 3 | 0 | 0 | 1 |
| **East North Central** | **0** | **0** | **0** | **10** | **2** | **0** | **4** | **0** |
| Illinois | 0 | 0 | 0 | 24 | 2 | 0 | 0 | 1 |
| Indiana | 0 | 0 | 0 | 14 | 3 | 0 | 0 | 1 |
| Michigan | 0 | 0 | 0 | 19 | 5 | 0 | 11 | 2 |
| Ohio | 0 | 0 | 0 | 24 | 3 | 0 | 0 | 1 |
| Wisconsin | 0 | 0 | 0 | 46 | 6 | 0 | 45 | 2 |
| **West North Central** | **0** | **0** | **0** | **7** | **2** | **0** | **6** | **1** |
| Iowa | 0 | 0 | 0 | 76 | 2 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 90 | 2 | 0 | 0 | 3 |
| Minnesota | 0 | 0 | 0 | 7 | 3 | 0 | 4 | 3 |
| Missouri | 0 | 0 | 0 | 29 | 3 | 0 | 0 | 1 |
| Nebraska | 0 | 0 | 0 | 57 | 4 | 0 | 0 | 4 |
| North Dakota | 0 | 0 | 0 | 0 | 3 | 0 | 49 | 2 |
| South Dakota | 0 | 0 | 0 | 210 | 6 | 0 | 0 | 8 |
| **South Atlantic** | **0** | **0** | **0** | **2** | **2** | **0** | **1** | **1** |
| Delaware | 0 | 0 | 0 | 34 | 26 | 0 | 0 | 8 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Florida | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 1 |
| Georgia | 0 | 0 | 0 | 5 | 3 | 0 | 33 | 2 |
| Maryland | 0 | 0 | 0 | 10 | 5 | 0 | 0 | 1 |
| North Carolina | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 2 |
| South Carolina | 0 | 0 | 0 | 11 | 6 | 0 | 0 | 1 |
| Virginia | 0 | 0 | 0 | 9 | 8 | 0 | 0 | 2 |
| West Virginia | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 1 |
| **East South Central** | **0** | **0** | **0** | **7** | **3** | **0** | **10** | **1** |
| Alabama | 0 | 0 | 0 | 12 | 4 | 0 | 0 | 1 |
| Kentucky | 0 | 0 | 0 | 35 | 14 | 0 | 0 | 1 |
| Mississippi | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 2 |
| Tennessee | 0 | 0 | 0 | 21 | 7 | 0 | 148 | 1 |
| **West South Central** | **0** | **0** | **0** | **3** | **1** | **0** | **3** | **1** |
| Arkansas | 0 | 0 | 0 | 2 | 4 | 0 | 60 | 2 |
| Louisiana | 0 | 0 | 0 | 200 | 5 | 0 | 3 | 2 |
| Oklahoma | 0 | 0 | 0 | 37 | 2 | 0 | 0 | 2 |
| Texas | 0 | 0 | 0 | 3 | 1 | 0 | 6 | 1 |
| **Mountain** | **0** | **14** | **0** | **2** | **2** | **0** | **0** | **1** |
| Arizona | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 1 |
| Colorado | 0 | 0 | 0 | 9 | 3 | 0 | 0 | 1 |
| Idaho | 0 | 62 | 0 | 11 | 4 | 0 | 0 | 7 |
| Montana | 0 | 0 | 0 | 51 | 6 | 0 | 0 | 5 |
| Nevada | 0 | 14 | 0 | 3 | 6 | 0 | 0 | 2 |
| New Mexico | 0 | 0 | 0 | 8 | 3 | 0 | 0 | 1 |
| Utah | 0 | 27 | 0 | 6 | 6 | 0 | 0 | 2 |
| Wyoming | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| **Pacific Contiguous** | **0** | **5** | **0** | **2** | **2** | **0** | **2** | **1** |
| California | 0 | 5 | 0 | 2 | 2 | 0 | 2 | 1 |
| Oregon | 0 | 38 | 0 | 12 | 3 | 0 | 0 | 3 |
| Washington | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **0** | **36** | **0** | **16** | **9** | **0** | **0** | **6** |
| Alaska | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 |
| Hawaii | 0 | 36 | 0 | 16 | 10 | 0 | 0 | 2 |
| **U.S. Total** | **0** | **7** | **0** | **2** | **1** | **0** | **1** | **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.

## Table A.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

### Total (All Sectors) by Census Division and State, Year-to-Date through April 2018

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **1** | **6** | **0** | **3** | **0** | **0** | **11** |
| Connecticut | 0 | 27 | 0 | 2 | 0 | 0 | 41 |
| Maine | 28 | 23 | 0 | 21 | 0 | 0 | 13 |
| Massachusetts | 0 | 4 | 0 | 6 | 0 | 0 | 26 |
| New Hampshire | 0 | 12 | 0 | 0 | 0 | 0 | 24 |
| Rhode Island | 0 | 60 | 0 | 13 | 0 | 0 | 0 |
| Vermont | 0 | 37 | 0 | 0 | 0 | 0 | 21 |
| **Middle Atlantic** | **3** | **6** | **134** | **1** | **31** | **0** | **3** |
| New Jersey | 0 | 12 | 0 | 3 | 0 | 0 | 61 |
| New York | 0 | 7 | 0 | 3 | 0 | 0 | 2 |
| Pennsylvania | 3 | 10 | 134 | 1 | 50 | 0 | 15 |
| **East North Central** | **1** | **4** | **0** | **2** | **10** | **0** | **12** |
| Illinois | 0 | 5 | 0 | 7 | 0 | 0 | 41 |
| Indiana | 1 | 3 | 0 | 3 | 18 | 0 | 33 |
| Michigan | 4 | 7 | 0 | 2 | 0 | 0 | 23 |
| Ohio | 1 | 2 | 0 | 1 | 30 | 0 | 31 |
| Wisconsin | 1 | 31 | 0 | 9 | 0 | 0 | 17 |
| **West North Central** | **1** | **10** | **0** | **8** | **0** | **0** | **9** |
| Iowa | 1 | 14 | 0 | 8 | 0 | 0 | 31 |
| Kansas | 3 | 7 | 0 | 27 | 0 | 0 | 0 |
| Minnesota | 5 | 48 | 0 | 12 | 0 | 0 | 27 |
| Missouri | 0 | 4 | 0 | 12 | 0 | 0 | 19 |
| Nebraska | 5 | 97 | 0 | 76 | 0 | 0 | 23 |
| North Dakota | 0 | 10 | 0 | 49 | 0 | 0 | 20 |
| South Dakota | 0 | 66 | 0 | 57 | 0 | 0 | 13 |
| **South Atlantic** | **1** | **4** | **14** | **1** | **0** | **0** | **8** |
| Delaware | 0 | 108 | 0 | 8 | 0 | 0 | 0 |
| District of Columbia | 0 | 278 | 0 | 89 | 0 | 0 | 0 |
| Florida | 0 | 7 | 0 | 1 | 0 | 0 | 52 |
| Georgia | 1 | 22 | 65 | 5 | 0 | 0 | 14 |
| Maryland | 0 | 7 | 0 | 4 | 0 | 0 | 2 |
| North Carolina | 4 | 12 | 0 | 4 | 0 | 0 | 13 |
| South Carolina | 0 | 10 | 0 | 7 | 0 | 0 | 17 |
| Virginia | 5 | 8 | 0 | 5 | 0 | 0 | 18 |
| West Virginia | 1 | 0 | 0 | 16 | 0 | 0 | 19 |
| **East South Central** | **0** | **11** | **0** | **1** | **63** | **0** | **6** |
| Alabama | 0 | 86 | 0 | 2 | 97 | 0 | 8 |
| Kentucky | 0 | 1 | 0 | 4 | 0 | 0 | 13 |
| Mississippi | 0 | 8 | 0 | 2 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 5 | 0 | 0 | 9 |
| **West South Central** | **0** | **3** | **1** | **2** | **5** | **0** | **9** |
| Arkansas | 0 | 6 | 0 | 5 | 0 | 0 | 12 |
| Louisiana | 0 | 5 | 0 | 2 | 12 | 0 | 21 |
| Oklahoma | 0 | 1 | 0 | 4 | 0 | 0 | 14 |
| Texas | 0 | 6 | 41 | 2 | 4 | 0 | 19 |
| **Mountain** | **2** | **7** | **0** | **1** | **0** | **0** | **5** |
| Arizona | 0 | 3 | 0 | 1 | 0 | 0 | 5 |
| Colorado | 0 | 37 | 0 | 2 | 0 | 0 | 19 |
| Idaho | 104 | 0 | 0 | 37 | 0 | 0 | 10 |
| Montana | 8 | 52 | 0 | 54 | 0 | 0 | 9 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| New Mexico | 0 | 75 | 0 | 3 | 0 | 0 | 75 |
| Utah | 0 | 1 | 0 | 4 | 0 | 0 | 32 |
| Wyoming | 5 | 1 | 0 | 16 | 0 | 0 | 28 |
| **Pacific Contiguous** | **0** | **22** | **0** | **2** | **2** | **0** | **2** |
| California | 0 | 24 | 0 | 1 | 3 | 0 | 5 |
| Oregon | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| Washington | 0 | 53 | 0 | 11 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **19** | **1** | **0** | **31** | **0** | **0** | **21** |
| Alaska | 68 | 4 | 0 | 31 | 0 | 0 | 22 |
| Hawaii | 0 | 1 | 0 | 0 | 0 | 0 | 27 |
| **U.S. Total** | **0** | **1** | **3** | **1** | **5** | **0** | **2** |

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.

**Table A.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:**

**Total (All Sectors) by Census Division and State, Year-to-Date through April 2018 (Continued)**

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **7** | **7** | **0** | **1** | **2** |
| Connecticut | 0 | 0 | 0 | 27 | 21 | 0 | 0 | 1 |
| Maine | 0 | 0 | 0 | 89 | 8 | 0 | 0 | 7 |
| Massachusetts | 0 | 0 | 0 | 8 | 6 | 0 | 2 | 4 |
| New Hampshire | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 3 |
| Rhode Island | 0 | 0 | 0 | 48 | 8 | 0 | 0 | 12 |
| Vermont | 0 | 0 | 0 | 24 | 15 | 0 | 0 | 14 |
| **Middle Atlantic** | **0** | **0** | **0** | **7** | **2** | **0** | **1** | **1** |
| New Jersey | 0 | 0 | 0 | 8 | 5 | 0 | 0 | 2 |
| New York | 0 | 0 | 0 | 16 | 3 | 0 | 2 | 1 |
| Pennsylvania | 0 | 0 | 0 | 28 | 3 | 0 | 0 | 1 |
| **East North Central** | **0** | **0** | **0** | **10** | **2** | **0** | **4** | **0** |
| Illinois | 0 | 0 | 0 | 24 | 2 | 0 | 0 | 1 |
| Indiana | 0 | 0 | 0 | 14 | 3 | 0 | 0 | 1 |
| Michigan | 0 | 0 | 0 | 19 | 5 | 0 | 11 | 2 |
| Ohio | 0 | 0 | 0 | 24 | 3 | 0 | 0 | 1 |
| Wisconsin | 0 | 0 | 0 | 46 | 6 | 0 | 45 | 2 |
| **West North Central** | **0** | **0** | **0** | **7** | **2** | **0** | **6** | **1** |
| Iowa | 0 | 0 | 0 | 76 | 2 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 90 | 2 | 0 | 0 | 3 |
| Minnesota | 0 | 0 | 0 | 7 | 3 | 0 | 4 | 3 |
| Missouri | 0 | 0 | 0 | 29 | 3 | 0 | 0 | 1 |
| Nebraska | 0 | 0 | 0 | 57 | 4 | 0 | 0 | 4 |
| North Dakota | 0 | 0 | 0 | 0 | 3 | 0 | 49 | 2 |
| South Dakota | 0 | 0 | 0 | 210 | 6 | 0 | 0 | 8 |
| **South Atlantic** | **0** | **0** | **0** | **2** | **2** | **0** | **1** | **1** |
| Delaware | 0 | 0 | 0 | 34 | 26 | 0 | 0 | 8 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Florida | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 1 |
| Georgia | 0 | 0 | 0 | 5 | 3 | 0 | 33 | 2 |
| Maryland | 0 | 0 | 0 | 10 | 5 | 0 | 0 | 1 |
| North Carolina | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 2 |
| South Carolina | 0 | 0 | 0 | 11 | 6 | 0 | 0 | 1 |
| Virginia | 0 | 0 | 0 | 9 | 8 | 0 | 0 | 2 |
| West Virginia | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 1 |
| **East South Central** | **0** | **0** | **0** | **7** | **3** | **0** | **10** | **1** |
| Alabama | 0 | 0 | 0 | 12 | 4 | 0 | 0 | 1 |
| Kentucky | 0 | 0 | 0 | 35 | 14 | 0 | 0 | 1 |
| Mississippi | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 2 |
| Tennessee | 0 | 0 | 0 | 21 | 7 | 0 | 148 | 1 |
| **West South Central** | **0** | **0** | **0** | **3** | **1** | **0** | **3** | **1** |
| Arkansas | 0 | 0 | 0 | 2 | 4 | 0 | 60 | 2 |
| Louisiana | 0 | 0 | 0 | 200 | 5 | 0 | 3 | 2 |
| Oklahoma | 0 | 0 | 0 | 37 | 2 | 0 | 0 | 2 |
| Texas | 0 | 0 | 0 | 3 | 1 | 0 | 6 | 1 |
| **Mountain** | **0** | **14** | **0** | **2** | **2** | **0** | **0** | **1** |
| Arizona | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 1 |
| Colorado | 0 | 0 | 0 | 9 | 3 | 0 | 0 | 1 |
| Idaho | 0 | 62 | 0 | 11 | 4 | 0 | 0 | 7 |
| Montana | 0 | 0 | 0 | 51 | 6 | 0 | 0 | 5 |
| Nevada | 0 | 14 | 0 | 3 | 6 | 0 | 0 | 2 |
| New Mexico | 0 | 0 | 0 | 8 | 3 | 0 | 0 | 1 |
| Utah | 0 | 27 | 0 | 6 | 6 | 0 | 0 | 2 |
| Wyoming | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| **Pacific Contiguous** | **0** | **5** | **0** | **2** | **2** | **0** | **2** | **1** |
| California | 0 | 5 | 0 | 2 | 2 | 0 | 2 | 1 |
| Oregon | 0 | 38 | 0 | 12 | 3 | 0 | 0 | 3 |
| Washington | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **0** | **36** | **0** | **16** | **9** | **0** | **0** | **6** |
| Alaska | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 |
| Hawaii | 0 | 36 | 0 | 16 | 10 | 0 | 0 | 2 |
| **U.S. Total** | **0** | **7** | **0** | **2** | **1** | **0** | **1** | **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.

**Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, April 2018**

| Census Region and State | Residential | Commercial | Industrial | Transportation | Total |
|---|---|---|---|---|---|
| **New England** | **0** | **0** | **2** | **.** | **0** |
| Connecticut | 0 | 0 | 0 | . | 0 |
| Maine | 1 | 1 | 0 | . | 1 |
| Massachusetts | 0 | 0 | 2 | . | 0 |
| New Hampshire | 1 | 0 | 0 | . | 0 |
| Rhode Island | 1 | 0 | 0 | . | 0 |
| Vermont | 2 | 2 | 72 | . | 2 |
| **Middle Atlantic** | **0** | **1** | **3** | **.** | **0** |
| New Jersey | 0 | 1 | 4 | . | 1 |
| New York | 0 | 0 | 2 | . | 0 |
| Pennsylvania | 2 | 3 | 0 | . | 2 |
| **East North Central** | **3** | **5** | **29** | **.** | **3** |
| Illinois | 6 | 18 | 0 | . | 11 |
| Indiana | 7 | 5 | 0 | . | 4 |
| Michigan | 4 | 36 | 291 | . | 17 |
| Ohio | 5 | 6 | 66 | . | 5 |
| Wisconsin | 8 | 20 | 10 | . | 8 |
| **West North Central** | **2** | **1** | **7** | **.** | **1** |
| Iowa | 8 | 3 | 34 | . | 3 |
| Kansas | 13 | 10 | 0 | . | 9 |
| Minnesota | 8 | 6 | 6 | . | 5 |
| Missouri | 3 | 1 | 0 | . | 1 |
| Nebraska | 18 | 39 | 52 | . | 16 |
| North Dakota | 0 | 0 | 0 | . | 0 |
| South Dakota | 0 | 0 | 0 | . | 0 |
| **South Atlantic** | **1** | **2** | **3** | **.** | **1** |
| Delaware | 4 | 4 | 23 | . | 3 |
| District of Columbia | 0 | 0 | 0 | . | 0 |
| Florida | 5 | 9 | 5 | . | 4 |
| Georgia | 101 | 175 | 0 | . | 89 |
| Maryland | 1 | 2 | 4 | . | 1 |
| North Carolina | 10 | 2 | 0 | . | 6 |
| South Carolina | 3 | 7 | 0 | . | 3 |
| Virginia | 11 | 11 | 16 | . | 8 |
| West Virginia | 0 | 0 | 0 | . | 0 |
| **East South Central** | **6** | **27** | **0** | **.** | **10** |
| Alabama | 0 | 0 | 0 | . | 0 |
| Kentucky | 8 | 30 | 0 | . | 12 |
| Mississippi | 10 | 69 | 0 | . | 35 |
| Tennessee | 0 | 0 | 0 | . | 0 |
| **West South Central** | **4** | **9** | **0** | **.** | **4** |
| Arkansas | 23 | 10 | 0 | . | 14 |
| Louisiana | 3 | 7 | 0 | . | 3 |
| Oklahoma | 21 | 4 | 0 | . | 14 |
| Texas | 8 | 11 | 0 | . | 6 |
| **Mountain** | **1** | **0** | **0** | **.** | **0** |
| Arizona | 1 | 0 | 0 | . | 0 |
| Colorado | 3 | 1 | 20 | . | 2 |
| Idaho | 3 | 2 | 0 | . | 2 |
| Montana | 13 | 5 | 0 | . | 10 |
| Nevada | 0 | 0 | 0 | . | 0 |
| New Mexico | 4 | 2 | 0 | . | 3 |
| Utah | 2 | 1 | 0 | . | 1 |
| Wyoming | 34 | 16 | 0 | . | 24 |
| **Pacific Contiguous** | **0** | **1** | **0** | **.** | **0** |
| California | 0 | 1 | 0 | . | 0 |
| Oregon | 2 | 5 | 10 | . | 2 |
| Washington | 2 | 18 | 77 | . | 3 |
| **Pacific Noncontiguous** | **0** | **0** | **0** | **.** | **0** |
| Alaska | 3 | 4 | 0 | . | 2 |
| Hawaii | 0 | 0 | 0 | . | 0 |
| **U.S. Total** | **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.

**Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, April 2018**

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **0** | **15** | **0** | **38** | **0** | **0** | **23** |
| Connecticut | 0 | 19 | 0 | 0 | 0 | 0 | 30 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 88 | 0 | 43 | 0 | 0 | 57 |
| New Hampshire | 0 | 6 | 0 | 0 | 0 | 0 | 41 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 37 | 0 | 0 | 0 | 0 | 33 |
| **Middle Atlantic** | **0** | **34** | **0** | **10** | **0** | **0** | **1** |
| New Jersey | 0 | 107 | 0 | 102 | 0 | 0 | 0 |
| New York | 0 | 35 | 0 | 10 | 0 | 0 | 1 |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East North Central** | **1** | **6** | **0** | **4** | **5** | **0** | **13** |
| Illinois | 0 | 14 | 0 | 0 | 0 | 0 | 53 |
| Indiana | 1 | 4 | 0 | 7 | 269 | 0 | 33 |
| Michigan | 4 | 8 | 0 | 6 | 0 | 0 | 24 |
| Ohio | 4 | 5 | 0 | 3 | 0 | 0 | 38 |
| Wisconsin | 1 | 31 | 0 | 12 | 0 | 0 | 19 |
| **West North Central** | **1** | **11** | **0** | **10** | **0** | **0** | **9** |
| Iowa | 1 | 14 | 0 | 9 | 0 | 0 | 31 |
| Kansas | 3 | 7 | 0 | 28 | 0 | 0 | 0 |
| Minnesota | 5 | 66 | 0 | 13 | 0 | 0 | 32 |
| Missouri | 0 | 4 | 0 | 22 | 0 | 0 | 19 |
| Nebraska | 5 | 97 | 0 | 76 | 0 | 0 | 23 |
| North Dakota | 0 | 10 | 0 | 49 | 0 | 0 | 20 |
| South Dakota | 0 | 66 | 0 | 57 | 0 | 0 | 13 |
| **South Atlantic** | **1** | **4** | **0** | **1** | **0** | **0** | **10** |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 0 | 3 | 0 | 1 | 0 | 0 | 52 |
| Georgia | 0 | 7 | 0 | 5 | 0 | 0 | 14 |
| Maryland | 0 | 37 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 4 | 12 | 0 | 3 | 0 | 0 | 13 |
| South Carolina | 0 | 12 | 0 | 8 | 0 | 0 | 17 |
| Virginia | 5 | 15 | 0 | 10 | 0 | 0 | 18 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| **East South Central** | **0** | **2** | **0** | **2** | **0** | **0** | **6** |
| Alabama | 0 | 16 | 0 | 6 | 0 | 0 | 8 |
| Kentucky | 0 | 1 | 0 | 4 | 0 | 0 | 13 |
| Mississippi | 0 | 8 | 0 | 3 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 6 | 0 | 0 | 9 |
| **West South Central** | **0** | **4** | **0** | **4** | **0** | **0** | **9** |
| Arkansas | 0 | 25 | 0 | 11 | 0 | 0 | 12 |
| Louisiana | 0 | 5 | 0 | 4 | 0 | 0 | 0 |
| Oklahoma | 0 | 1 | 0 | 7 | 0 | 0 | 14 |
| Texas | 0 | 9 | 0 | 7 | 0 | 0 | 20 |
| **Mountain** | **2** | **7** | **0** | **1** | **0** | **0** | **5** |
| Arizona | 0 | 3 | 0 | 1 | 0 | 0 | 5 |
| Colorado | 0 | 37 | 0 | 1 | 0 | 0 | 19 |
| Idaho | 0 | 0 | 0 | 92 | 0 | 0 | 10 |
| Montana | 0 | 1,032 | 0 | 58 | 0 | 0 | 9 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 75 | 0 | 4 | 0 | 0 | 75 |
| Utah | 0 | 1 | 0 | 4 | 0 | 0 | 32 |
| Wyoming | 5 | 1 | 0 | 67 | 0 | 0 | 28 |
| **Pacific Contiguous** | **0** | **26** | **0** | **3** | **0** | **0** | **1** |
| California | 0 | 25 | 0 | 2 | 0 | 0 | 4 |
| Oregon | 0 | 0 | 0 | 9 | 0 | 0 | 3 |
| Washington | 0 | 1,344 | 0 | 23 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **165** | **1** | **0** | **31** | **0** | **0** | **23** |
| Alaska | 165 | 4 | 0 | 31 | 0 | 0 | 23 |
| Hawaii | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **1** | **0** | **1** | **5** | **0** | **2** |

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.

**Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:**

**Electric Utilities by Census Division and State, April 2018 (Continued)**

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **33** | **9** | **0** | **0** | **9** |
| Connecticut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | 0 | 56 | 28 | 0 | 0 | 30 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 43 | 10 | 0 | 0 | 17 |
| **Middle Atlantic** | **0** | **0** | **0** | **27** | **27** | **0** | **0** | **2** |
| New Jersey | 0 | 0 | 0 | 27 | 27 | 0 | 0 | 38 |
| New York | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East North Central** | **0** | **0** | **0** | **15** | **6** | **0** | **7** | **1** |
| Illinois | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 1 |
| Indiana | 0 | 0 | 0 | 24 | 16 | 0 | 0 | 1 |
| Michigan | 0 | 0 | 0 | 19 | 6 | 0 | 0 | 2 |
| Ohio | 0 | 0 | 0 | 82 | 54 | 0 | 0 | 3 |
| Wisconsin | 0 | 0 | 0 | 0 | 13 | 0 | 42 | 3 |
| **West North Central** | **0** | **0** | **0** | **55** | **2** | **0** | **8** | **1** |
| Iowa | 0 | 0 | 0 | 83 | 2 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 210 | 6 | 0 | 0 | 5 |
| Minnesota | 0 | 0 | 0 | 138 | 6 | 0 | 0 | 3 |
| Missouri | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 1 |
| Nebraska | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 4 |
| North Dakota | 0 | 0 | 0 | 0 | 4 | 0 | 49 | 2 |
| South Dakota | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 10 |
| **South Atlantic** | **0** | **0** | **0** | **3** | **6** | **0** | **0** | **1** |
| Delaware | 0 | 0 | 0 | 94 | 94 | 0 | 0 | 77 |
| Florida | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 |
| Georgia | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 2 |
| Maryland | 0 | 0 | 0 | 84 | 84 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 2 |
| South Carolina | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 1 |
| Virginia | 0 | 0 | 0 | 19 | 22 | 0 | 0 | 3 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **East South Central** | **0** | **0** | **0** | **29** | **24** | **0** | **0** | **1** |
| Alabama | 0 | 0 | 0 | 49 | 49 | 0 | 0 | 2 |
| Kentucky | 0 | 0 | 0 | 35 | 27 | 0 | 0 | 1 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tennessee | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **West South Central** | **0** | **0** | **0** | **34** | **8** | **0** | **0** | **2** |
| Arkansas | 0 | 0 | 0 | 210 | 210 | 0 | 0 | 3 |
| Louisiana | 0 | 0 | 0 | 200 | 200 | 0 | 0 | 2 |
| Oklahoma | 0 | 0 | 0 | 37 | 8 | 0 | 0 | 4 |
| Texas | 0 | 0 | 0 | 121 | 24 | 0 | 0 | 4 |
| **Mountain** | **0** | **36** | **0** | **7** | **5** | **0** | **0** | **1** |
| Arizona | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 1 |
| Colorado | 0 | 0 | 0 | 125 | 29 | 0 | 0 | 1 |
| Idaho | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 10 |
| Montana | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 9 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 2 |
| Utah | 0 | 36 | 0 | 0 | 36 | 0 | 0 | 2 |
| Wyoming | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 |
| **Pacific Contiguous** | **0** | **0** | **0** | **11** | **3** | **0** | **0** | **1** |
| California | 0 | 0 | 0 | 11 | 5 | 0 | 0 | 2 |
| Oregon | 0 | 0 | 0 | 102 | 3 | 0 | 0 | 3 |
| Washington | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **0** | **0** | **0** | **0** | **13** | **0** | **0** | **9** |
| Alaska | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 17 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **U.S. Total** | **0** | **9** | **0** | **3** | **2** | **0** | **3** | **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.

## Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

### Electric Utilities by Census Division and State, Year-to-Date through April 2018

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **0** | **15** | **0** | **38** | **0** | **0** | **23** |
| Connecticut | 0 | 19 | 0 | 0 | 0 | 0 | 30 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 88 | 0 | 43 | 0 | 0 | 57 |
| New Hampshire | 0 | 6 | 0 | 0 | 0 | 0 | 41 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 37 | 0 | 0 | 0 | 0 | 33 |
| **Middle Atlantic** | **0** | **34** | **0** | **10** | **0** | **0** | **1** |
| New Jersey | 0 | 107 | 0 | 102 | 0 | 0 | 0 |
| New York | 0 | 35 | 0 | 10 | 0 | 0 | 1 |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East North Central** | **1** | **6** | **0** | **4** | **5** | **0** | **13** |
| Illinois | 0 | 14 | 0 | 0 | 0 | 0 | 53 |
| Indiana | 1 | 4 | 0 | 7 | 269 | 0 | 33 |
| Michigan | 4 | 8 | 0 | 6 | 0 | 0 | 24 |
| Ohio | 4 | 5 | 0 | 3 | 0 | 0 | 38 |
| Wisconsin | 1 | 31 | 0 | 12 | 0 | 0 | 19 |
| **West North Central** | **1** | **11** | **0** | **10** | **0** | **0** | **9** |
| Iowa | 1 | 14 | 0 | 9 | 0 | 0 | 31 |
| Kansas | 3 | 7 | 0 | 28 | 0 | 0 | 0 |
| Minnesota | 5 | 66 | 0 | 13 | 0 | 0 | 32 |
| Missouri | 0 | 4 | 0 | 22 | 0 | 0 | 19 |
| Nebraska | 5 | 97 | 0 | 76 | 0 | 0 | 23 |
| North Dakota | 0 | 10 | 0 | 49 | 0 | 0 | 20 |
| South Dakota | 0 | 66 | 0 | 57 | 0 | 0 | 13 |
| **South Atlantic** | **1** | **4** | **0** | **1** | **0** | **0** | **10** |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 0 | 3 | 0 | 1 | 0 | 0 | 52 |
| Georgia | 0 | 7 | 0 | 5 | 0 | 0 | 14 |
| Maryland | 0 | 37 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 4 | 12 | 0 | 3 | 0 | 0 | 13 |
| South Carolina | 0 | 12 | 0 | 8 | 0 | 0 | 17 |
| Virginia | 5 | 15 | 0 | 10 | 0 | 0 | 18 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| **East South Central** | **0** | **2** | **0** | **2** | **0** | **0** | **6** |
| Alabama | 0 | 16 | 0 | 6 | 0 | 0 | 8 |
| Kentucky | 0 | 1 | 0 | 4 | 0 | 0 | 13 |
| Mississippi | 0 | 8 | 0 | 3 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 6 | 0 | 0 | 9 |
| **West South Central** | **0** | **4** | **0** | **4** | **0** | **0** | **9** |
| Arkansas | 0 | 25 | 0 | 11 | 0 | 0 | 12 |
| Louisiana | 0 | 5 | 0 | 4 | 0 | 0 | 0 |
| Oklahoma | 0 | 1 | 0 | 7 | 0 | 0 | 14 |
| Texas | 0 | 9 | 0 | 7 | 0 | 0 | 20 |
| **Mountain** | **2** | **7** | **0** | **1** | **0** | **0** | **5** |
| Arizona | 0 | 3 | 0 | 1 | 0 | 0 | 5 |
| Colorado | 0 | 37 | 0 | 1 | 0 | 0 | 19 |
| Idaho | 0 | 0 | 0 | 92 | 0 | 0 | 10 |
| Montana | 0 | 1,032 | 0 | 58 | 0 | 0 | 9 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 75 | 0 | 4 | 0 | 0 | 75 |
| Utah | 0 | 1 | 0 | 4 | 0 | 0 | 32 |
| Wyoming | 5 | 1 | 0 | 67 | 0 | 0 | 28 |
| **Pacific Contiguous** | **0** | **26** | **0** | **3** | **0** | **0** | **1** |
| California | 0 | 25 | 0 | 2 | 0 | 0 | 4 |
| Oregon | 0 | 0 | 0 | 9 | 0 | 0 | 3 |
| Washington | 0 | 1,344 | 0 | 23 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **165** | **1** | **0** | **31** | **0** | **0** | **23** |
| Alaska | 165 | 4 | 0 | 31 | 0 | 0 | 23 |
| Hawaii | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **1** | **0** | **1** | **5** | **0** | **2** |

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.

**Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:**

**Electric Utilities by Census Division and State, Year-to-Date through April 2018 (Continued)**

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **33** | **9** | **0** | **0** | **9** |
| Connecticut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | 0 | 56 | 28 | 0 | 0 | 30 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 43 | 10 | 0 | 0 | 17 |
| **Middle Atlantic** | **0** | **0** | **0** | **27** | **27** | **0** | **0** | **2** |
| New Jersey | 0 | 0 | 0 | 27 | 27 | 0 | 0 | 38 |
| New York | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East North Central** | **0** | **0** | **0** | **15** | **6** | **0** | **7** | **1** |
| Illinois | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 1 |
| Indiana | 0 | 0 | 0 | 24 | 16 | 0 | 0 | 1 |
| Michigan | 0 | 0 | 0 | 19 | 6 | 0 | 0 | 2 |
| Ohio | 0 | 0 | 0 | 82 | 54 | 0 | 0 | 3 |
| Wisconsin | 0 | 0 | 0 | 0 | 13 | 0 | 42 | 3 |
| **West North Central** | **0** | **0** | **0** | **55** | **2** | **0** | **8** | **1** |
| Iowa | 0 | 0 | 0 | 83 | 2 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 210 | 6 | 0 | 0 | 5 |
| Minnesota | 0 | 0 | 0 | 138 | 6 | 0 | 0 | 3 |
| Missouri | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 1 |
| Nebraska | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 4 |
| North Dakota | 0 | 0 | 0 | 0 | 4 | 0 | 49 | 2 |
| South Dakota | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 10 |
| **South Atlantic** | **0** | **0** | **0** | **3** | **6** | **0** | **0** | **1** |
| Delaware | 0 | 0 | 0 | 94 | 94 | 0 | 0 | 77 |
| Florida | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 |
| Georgia | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 2 |
| Maryland | 0 | 0 | 0 | 84 | 84 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 2 |
| South Carolina | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 1 |
| Virginia | 0 | 0 | 0 | 19 | 22 | 0 | 0 | 3 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **East South Central** | **0** | **0** | **0** | **29** | **24** | **0** | **0** | **1** |
| Alabama | 0 | 0 | 0 | 49 | 49 | 0 | 0 | 2 |
| Kentucky | 0 | 0 | 0 | 35 | 27 | 0 | 0 | 1 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tennessee | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **West South Central** | **0** | **0** | **0** | **34** | **8** | **0** | **0** | **2** |
| Arkansas | 0 | 0 | 0 | 210 | 210 | 0 | 0 | 3 |
| Louisiana | 0 | 0 | 0 | 200 | 200 | 0 | 0 | 2 |
| Oklahoma | 0 | 0 | 0 | 37 | 8 | 0 | 0 | 4 |
| Texas | 0 | 0 | 0 | 121 | 24 | 0 | 0 | 4 |
| **Mountain** | **0** | **36** | **0** | **7** | **5** | **0** | **0** | **1** |
| Arizona | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 1 |
| Colorado | 0 | 0 | 0 | 125 | 29 | 0 | 0 | 1 |
| Idaho | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 10 |
| Montana | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 9 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 2 |
| Utah | 0 | 36 | 0 | 0 | 36 | 0 | 0 | 2 |
| Wyoming | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 |
| **Pacific Contiguous** | **0** | **0** | **0** | **11** | **3** | **0** | **0** | **1** |
| California | 0 | 0 | 0 | 11 | 5 | 0 | 0 | 2 |
| Oregon | 0 | 0 | 0 | 102 | 3 | 0 | 0 | 3 |
| Washington | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 |
| **Pacific Noncontiguous** | **0** | **0** | **0** | **0** | **13** | **0** | **0** | **9** |
| Alaska | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 17 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **U.S. Total** | **0** | **9** | **0** | **3** | **2** | **0** | **3** | **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.

## Table A.3.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

### Independent Power Producers by Census Division and State, April 2018

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **0** | **6** | **0** | **3** | **0** | **0** | **12** |
| Connecticut | 0 | 32 | 0 | 1 | 0 | 0 | 47 |
| Maine | 0 | 14 | 0 | 25 | 0 | 0 | 14 |
| Massachusetts | 0 | 3 | 0 | 7 | 0 | 0 | 29 |
| New Hampshire | 0 | 582 | 0 | 0 | 0 | 0 | 27 |
| Rhode Island | 0 | 60 | 0 | 13 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| **Middle Atlantic** | **3** | **5** | **0** | **1** | **0** | **0** | **13** |
| New Jersey | 0 | 38 | 0 | 3 | 0 | 0 | 61 |
| New York | 0 | 5 | 0 | 3 | 0 | 0 | 12 |
| Pennsylvania | 3 | 10 | 0 | 1 | 0 | 0 | 16 |
| **East North Central** | **0** | **2** | **0** | **1** | **11** | **0** | **36** |
| Illinois | 0 | 2 | 0 | 8 | 0 | 0 | 61 |
| Indiana | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Michigan | 0 | 0 | 0 | 1 | 0 | 0 | 87 |
| Ohio | 0 | 3 | 0 | 1 | 44 | 0 | 51 |
| Wisconsin | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| **West North Central** | **0** | **42** | **0** | **13** | **0** | **0** | **57** |
| Iowa | 0 | 51 | 0 | 5,183 | 0 | 0 | 0 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 45 | 0 | 33 | 0 | 0 | 62 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Atlantic** | **3** | **7** | **0** | **3** | **0** | **0** | **5** |
| Delaware | 0 | 112 | 0 | 9 | 0 | 0 | 0 |
| Florida | 0 | 16 | 0 | 9 | 0 | 0 | 0 |
| Georgia | 0 | 74 | 0 | 10 | 0 | 0 | 99 |
| Maryland | 0 | 8 | 0 | 6 | 0 | 0 | 2 |
| North Carolina | 0 | 53 | 0 | 28 | 0 | 0 | 80 |
| South Carolina | 0 | 0 | 0 | 8 | 0 | 0 | 73 |
| Virginia | 0 | 4 | 0 | 2 | 0 | 0 | 54 |
| West Virginia | 6 | 0 | 0 | 24 | 0 | 0 | 37 |
| **East South Central** | **0** | **53** | **0** | **1** | **0** | **0** | **221** |
| Alabama | 0 | 70 | 0 | 1 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | 0 | 0 | 0 | 0 | 221 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **West South Central** | **0** | **4** | **0** | **2** | **0** | **0** | **19** |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| Louisiana | 0 | 0 | 0 | 15 | 0 | 0 | 21 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 7 | 0 | 2 | 0 | 0 | 0 |
| **Mountain** | **8** | **6** | **0** | **3** | **0** | **0** | **26** |
| Arizona | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Colorado | 0 | 0 | 0 | 11 | 0 | 0 | 67 |
| Idaho | 0 | 0 | 0 | 44 | 0 | 0 | 31 |
| Montana | 8 | 16 | 0 | 53 | 0 | 0 | 76 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| New Mexico | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Pacific Contiguous** | **0** | **23** | **0** | **2** | **0** | **0** | **22** |
| California | 0 | 0 | 0 | 2 | 0 | 0 | 27 |
| Oregon | 0 | 0 | 0 | 3 | 0 | 0 | 53 |
| Washington | 0 | 36 | 0 | 10 | 0 | 0 | 42 |
| **Pacific Noncontiguous** | **5** | **0** | **0** | **0** | **0** | **0** | **0** |
| Alaska | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **1** | **1** | **0** | **1** | **5** | **0** | **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.

**Table A.3.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:**

**Independent Power Producers by Census Division and State, April 2018 (Continued)**

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **8** | **8** | **0** | **1** | **2** |
| Connecticut | 0 | 0 | 0 | 28 | 22 | 0 | 0 | 1 |
| Maine | 0 | 0 | 0 | 89 | 10 | 0 | 0 | 8 |
| Massachusetts | 0 | 0 | 0 | 8 | 6 | 0 | 2 | 5 |
| New Hampshire | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 4 |
| Rhode Island | 0 | 0 | 0 | 48 | 8 | 0 | 0 | 12 |
| Vermont | 0 | 0 | 0 | 29 | 30 | 0 | 0 | 20 |
| **Middle Atlantic** | **0** | **0** | **0** | **8** | **2** | **0** | **0** | **1** |
| New Jersey | 0 | 0 | 0 | 9 | 6 | 0 | 0 | 2 |
| New York | 0 | 0 | 0 | 16 | 3 | 0 | 0 | 1 |
| Pennsylvania | 0 | 0 | 0 | 32 | 4 | 0 | 0 | 1 |
| **East North Central** | **0** | **0** | **0** | **12** | **2** | **0** | **17** | **0** |
| Illinois | 0 | 0 | 0 | 24 | 2 | 0 | 0 | 1 |
| Indiana | 0 | 0 | 0 | 18 | 3 | 0 | 0 | 1 |
| Michigan | 0 | 0 | 0 | 61 | 7 | 0 | 26 | 1 |
| Ohio | 0 | 0 | 0 | 26 | 3 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | 0 | 46 | 6 | 0 | 0 | 1 |
| **West North Central** | **0** | **0** | **0** | **7** | **2** | **0** | **0** | **2** |
| Iowa | 0 | 0 | 0 | 184 | 3 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 98 | 2 | 0 | 0 | 2 |
| Minnesota | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 4 |
| Missouri | 0 | 0 | 0 | 31 | 3 | 0 | 0 | 2 |
| Nebraska | 0 | 0 | 0 | 57 | 4 | 0 | 0 | 4 |
| North Dakota | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| South Dakota | 0 | 0 | 0 | 210 | 6 | 0 | 0 | 6 |
| **South Atlantic** | **0** | **0** | **0** | **3** | **2** | **0** | **1** | **2** |
| Delaware | 0 | 0 | 0 | 38 | 31 | 0 | 0 | 9 |
| Florida | 0 | 0 | 0 | 9 | 5 | 0 | 1 | 6 |
| Georgia | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 8 |
| Maryland | 0 | 0 | 0 | 10 | 6 | 0 | 0 | 1 |
| North Carolina | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 6 |
| South Carolina | 0 | 0 | 0 | 11 | 19 | 0 | 0 | 8 |
| Virginia | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 2 |
| West Virginia | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 |
| **East South Central** | **0** | **0** | **0** | **7** | **7** | **0** | **0** | **1** |
| Alabama | 0 | 0 | 0 | 12 | 11 | 0 | 0 | 1 |
| Kentucky | 0 | 0 | 0 | 200 | 59 | 0 | 0 | 2 |
| Mississippi | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 22 | 17 | 0 | 0 | 16 |
| **West South Central** | **0** | **0** | **0** | **3** | **1** | **0** | **0** | **1** |
| Arkansas | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 11 |
| Oklahoma | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| Texas | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 1 |
| **Mountain** | **0** | **14** | **0** | **2** | **2** | **0** | **0** | **2** |
| Arizona | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 2 |
| Colorado | 0 | 0 | 0 | 9 | 2 | 0 | 0 | 3 |
| Idaho | 0 | 62 | 0 | 11 | 5 | 0 | 0 | 10 |
| Montana | 0 | 0 | 0 | 51 | 6 | 0 | 0 | 7 |
| Nevada | 0 | 14 | 0 | 3 | 6 | 0 | 0 | 5 |
| New Mexico | 0 | 0 | 0 | 9 | 3 | 0 | 0 | 2 |
| Utah | 0 | 37 | 0 | 6 | 6 | 0 | 0 | 6 |
| Wyoming | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 |
| **Pacific Contiguous** | **0** | **6** | **0** | **2** | **2** | **0** | **0** | **1** |
| California | 0 | 5 | 0 | 2 | 2 | 0 | 0 | 2 |
| Oregon | 0 | 38 | 0 | 12 | 4 | 0 | 0 | 3 |
| Washington | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 5 |
| **Pacific Noncontiguous** | **0** | **36** | **0** | **19** | **12** | **0** | **0** | **4** |
| Alaska | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 29 |
| Hawaii | 0 | 36 | 0 | 19 | 13 | 0 | 0 | 4 |
| **U.S. Total** | **0** | **7** | **0** | **2** | **1** | **0** | **1** | **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.

## Table A.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

### Independent Power Producers by Census Division and State, Year-to-Date through April 2018

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **0** | **6** | **0** | **3** | **0** | **0** | **12** |
| Connecticut | 0 | 32 | 0 | 1 | 0 | 0 | 47 |
| Maine | 0 | 14 | 0 | 25 | 0 | 0 | 14 |
| Massachusetts | 0 | 3 | 0 | 7 | 0 | 0 | 29 |
| New Hampshire | 0 | 582 | 0 | 0 | 0 | 0 | 27 |
| Rhode Island | 0 | 60 | 0 | 13 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| **Middle Atlantic** | **3** | **5** | **0** | **1** | **0** | **0** | **13** |
| New Jersey | 0 | 38 | 0 | 3 | 0 | 0 | 61 |
| New York | 0 | 5 | 0 | 3 | 0 | 0 | 12 |
| Pennsylvania | 3 | 10 | 0 | 1 | 0 | 0 | 16 |
| **East North Central** | **0** | **2** | **0** | **1** | **11** | **0** | **36** |
| Illinois | 0 | 2 | 0 | 8 | 0 | 0 | 61 |
| Indiana | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Michigan | 0 | 0 | 0 | 1 | 0 | 0 | 87 |
| Ohio | 0 | 3 | 0 | 1 | 44 | 0 | 51 |
| Wisconsin | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| **West North Central** | **0** | **42** | **0** | **13** | **0** | **0** | **57** |
| Iowa | 0 | 51 | 0 | 5,183 | 0 | 0 | 0 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 45 | 0 | 33 | 0 | 0 | 62 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Atlantic** | **3** | **7** | **0** | **3** | **0** | **0** | **5** |
| Delaware | 0 | 112 | 0 | 9 | 0 | 0 | 0 |
| Florida | 0 | 16 | 0 | 9 | 0 | 0 | 0 |
| Georgia | 0 | 74 | 0 | 10 | 0 | 0 | 99 |
| Maryland | 0 | 8 | 0 | 6 | 0 | 0 | 2 |
| North Carolina | 0 | 53 | 0 | 28 | 0 | 0 | 80 |
| South Carolina | 0 | 0 | 0 | 8 | 0 | 0 | 73 |
| Virginia | 0 | 4 | 0 | 2 | 0 | 0 | 54 |
| West Virginia | 6 | 0 | 0 | 24 | 0 | 0 | 37 |
| **East South Central** | **0** | **53** | **0** | **1** | **0** | **0** | **221** |
| Alabama | 0 | 70 | 0 | 1 | 0 | 0 | 0 |
| Kentucky | 0 | 0 | 0 | 0 | 0 | 0 | 221 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **West South Central** | **0** | **4** | **0** | **2** | **0** | **0** | **19** |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| Louisiana | 0 | 0 | 0 | 15 | 0 | 0 | 21 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 7 | 0 | 2 | 0 | 0 | 0 |
| **Mountain** | **8** | **6** | **0** | **3** | **0** | **0** | **26** |
| Arizona | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Colorado | 0 | 0 | 0 | 11 | 0 | 0 | 67 |
| Idaho | 0 | 0 | 0 | 44 | 0 | 0 | 31 |
| Montana | 8 | 16 | 0 | 53 | 0 | 0 | 76 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| New Mexico | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Pacific Contiguous** | **0** | **23** | **0** | **2** | **0** | **0** | **22** |
| California | 0 | 0 | 0 | 2 | 0 | 0 | 27 |
| Oregon | 0 | 0 | 0 | 3 | 0 | 0 | 53 |
| Washington | 0 | 36 | 0 | 10 | 0 | 0 | 42 |
| **Pacific Noncontiguous** | **5** | **0** | **0** | **0** | **0** | **0** | **0** |
| Alaska | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **1** | **1** | **0** | **1** | **5** | **0** | **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.

**Table A.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:**

**Independent Power Producers by Census Division and State, Year-to-Date through April 2018 (Continued)**

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **8** | **8** | **0** | **1** | **2** |
| Connecticut | 0 | 0 | 0 | 28 | 22 | 0 | 0 | 1 |
| Maine | 0 | 0 | 0 | 89 | 10 | 0 | 0 | 8 |
| Massachusetts | 0 | 0 | 0 | 8 | 6 | 0 | 2 | 5 |
| New Hampshire | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 4 |
| Rhode Island | 0 | 0 | 0 | 48 | 8 | 0 | 0 | 12 |
| Vermont | 0 | 0 | 0 | 29 | 30 | 0 | 0 | 20 |
| **Middle Atlantic** | **0** | **0** | **0** | **8** | **2** | **0** | **0** | **1** |
| New Jersey | 0 | 0 | 0 | 9 | 6 | 0 | 0 | 2 |
| New York | 0 | 0 | 0 | 16 | 3 | 0 | 0 | 1 |
| Pennsylvania | 0 | 0 | 0 | 32 | 4 | 0 | 0 | 1 |
| **East North Central** | **0** | **0** | **0** | **12** | **2** | **0** | **17** | **0** |
| Illinois | 0 | 0 | 0 | 24 | 2 | 0 | 0 | 1 |
| Indiana | 0 | 0 | 0 | 18 | 3 | 0 | 0 | 1 |
| Michigan | 0 | 0 | 0 | 61 | 7 | 0 | 26 | 1 |
| Ohio | 0 | 0 | 0 | 26 | 3 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | 0 | 46 | 6 | 0 | 0 | 1 |
| **West North Central** | **0** | **0** | **0** | **7** | **2** | **0** | **0** | **2** |
| Iowa | 0 | 0 | 0 | 184 | 3 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 98 | 2 | 0 | 0 | 2 |
| Minnesota | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 4 |
| Missouri | 0 | 0 | 0 | 31 | 3 | 0 | 0 | 2 |
| Nebraska | 0 | 0 | 0 | 57 | 4 | 0 | 0 | 4 |
| North Dakota | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| South Dakota | 0 | 0 | 0 | 210 | 6 | 0 | 0 | 6 |
| **South Atlantic** | **0** | **0** | **0** | **3** | **2** | **0** | **1** | **2** |
| Delaware | 0 | 0 | 0 | 38 | 31 | 0 | 0 | 9 |
| Florida | 0 | 0 | 0 | 9 | 5 | 0 | 1 | 6 |
| Georgia | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 8 |
| Maryland | 0 | 0 | 0 | 10 | 6 | 0 | 0 | 1 |
| North Carolina | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 6 |
| South Carolina | 0 | 0 | 0 | 11 | 19 | 0 | 0 | 8 |
| Virginia | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 2 |
| West Virginia | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 |
| **East South Central** | **0** | **0** | **0** | **7** | **7** | **0** | **0** | **1** |
| Alabama | 0 | 0 | 0 | 12 | 11 | 0 | 0 | 1 |
| Kentucky | 0 | 0 | 0 | 200 | 59 | 0 | 0 | 2 |
| Mississippi | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 22 | 17 | 0 | 0 | 16 |
| **West South Central** | **0** | **0** | **0** | **3** | **1** | **0** | **0** | **1** |
| Arkansas | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 11 |
| Oklahoma | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| Texas | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 1 |
| **Mountain** | **0** | **14** | **0** | **2** | **2** | **0** | **0** | **2** |
| Arizona | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 2 |
| Colorado | 0 | 0 | 0 | 9 | 2 | 0 | 0 | 3 |
| Idaho | 0 | 62 | 0 | 11 | 5 | 0 | 0 | 10 |
| Montana | 0 | 0 | 0 | 51 | 6 | 0 | 0 | 7 |
| Nevada | 0 | 14 | 0 | 3 | 6 | 0 | 0 | 5 |
| New Mexico | 0 | 0 | 0 | 9 | 3 | 0 | 0 | 2 |
| Utah | 0 | 37 | 0 | 6 | 6 | 0 | 0 | 6 |
| Wyoming | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 |
| **Pacific Contiguous** | **0** | **6** | **0** | **2** | **2** | **0** | **0** | **1** |
| California | 0 | 5 | 0 | 2 | 2 | 0 | 0 | 2 |
| Oregon | 0 | 38 | 0 | 12 | 4 | 0 | 0 | 3 |
| Washington | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 5 |
| **Pacific Noncontiguous** | **0** | **36** | **0** | **19** | **12** | **0** | **0** | **4** |
| Alaska | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 29 |
| Hawaii | 0 | 36 | 0 | 19 | 13 | 0 | 0 | 4 |
| **U.S. Total** | **0** | **7** | **0** | **2** | **1** | **0** | **1** | **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.

## Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, April 2018

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **0** | **19** | **0** | **19** | **0** | **0** | **0** |
| Connecticut | 0 | 2,358 | 0 | 26 | 0 | 0 | 0 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 41 | 0 | 31 | 0 | 0 | 0 |
| New Hampshire | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **0** | **18** | **0** | **18** | **0** | **0** | **0** |
| New Jersey | 0 | 0 | 0 | 27 | 0 | 0 | 0 |
| New York | 0 | 102 | 0 | 24 | 0 | 0 | 0 |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East North Central** | **26** | **32** | **0** | **9** | **0** | **0** | **0** |
| Illinois | 78 | 346 | 0 | 35 | 0 | 0 | 0 |
| Indiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 0 | 2 | 0 | 9 | 0 | 0 | 0 |
| Ohio | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | 0 | 16 | 0 | 0 | 0 |
| **West North Central** | **0** | **16** | **0** | **1** | **0** | **0** | **0** |
| Iowa | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Minnesota | 0 | 17 | 0 | 3 | 0 | 0 | 0 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 550 | 0 | 0 | 0 | 0 | 0 |
| **South Atlantic** | **0** | **2** | **0** | **9** | **0** | **0** | **0** |
| District of Columbia | 0 | 278 | 0 | 89 | 0 | 0 | 0 |
| Florida | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East South Central** | **0** | **0** | **0** | **30** | **0** | **0** | **0** |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 32 | 0 | 0 | 0 |
| **West South Central** | **0** | **17** | **0** | **33** | **0** | **0** | **470** |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 37 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 17 | 0 | 42 | 0 | 0 | 470 |
| **Mountain** | **0** | **0** | **0** | **10** | **0** | **0** | **0** |
| Arizona | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 40 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| **Pacific Contiguous** | **0** | **16** | **0** | **3** | **0** | **0** | **96** |
| California | 0 | 23 | 0 | 3 | 0 | 0 | 96 |
| Oregon | 0 | 0 | 0 | 8 | 0 | 0 | 0 |
| Washington | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Pacific Noncontiguous** | **40** | **9** | **0** | **0** | **0** | **0** | **67** |
| Alaska | 40 | 18 | 0 | 0 | 0 | 0 | 67 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **18** | **8** | **0** | **5** | **0** | **0** | **50** |

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.

## Table A.4.A. Relative Standard Error for Net Generation by Fuel Type:

### Commercial Sector by Census Division and State, April 2018 (Continued)

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **74** | **7** | **0** | **0** | **14** |
| Connecticut | 0 | 0 | 0 | 234 | 234 | 0 | 0 | 26 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | 0 | 69 | 19 | 0 | 0 | 26 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **0** | **0** | **0** | **20** | **6** | **0** | **5** | **8** |
| New Jersey | 0 | 0 | 0 | 21 | 10 | 0 | 0 | 8 |
| New York | 0 | 0 | 0 | 109 | 9 | 0 | 10 | 15 |
| Pennsylvania | 0 | 0 | 0 | 87 | 12 | 0 | 0 | 5 |
| **East North Central** | **0** | **0** | **0** | **108** | **6** | **0** | **0** | **7** |
| Illinois | 0 | 0 | 0 | 148 | 94 | 0 | 0 | 31 |
| Indiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Ohio | 0 | 0 | 0 | 156 | 49 | 0 | 0 | 3 |
| Wisconsin | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 12 |
| **West North Central** | **0** | **0** | **0** | **0** | **22** | **0** | **61** | **6** |
| Iowa | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 7 |
| Kansas | 0 | 0 | 0 | 0 | 159 | 0 | 0 | 159 |
| Minnesota | 0 | 0 | 0 | 0 | 37 | 0 | 61 | 14 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 550 |
| **South Atlantic** | **0** | **0** | **0** | **21** | **7** | **0** | **0** | **5** |
| Delaware | 0 | 0 | 0 | 199 | 47 | 0 | 0 | 47 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Florida | 0 | 0 | 0 | 98 | 33 | 0 | 0 | 22 |
| Georgia | 0 | 0 | 0 | 141 | 141 | 0 | 0 | 107 |
| Maryland | 0 | 0 | 0 | 98 | 44 | 0 | 0 | 2 |
| North Carolina | 0 | 0 | 0 | 23 | 22 | 0 | 0 | 20 |
| South Carolina | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 |
| **East South Central** | **0** | **0** | **0** | **117** | **117** | **0** | **0** | **30** |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 117 | 117 | 0 | 0 | 31 |
| **West South Central** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **29** |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| **Mountain** | **0** | **0** | **0** | **25** | **24** | **0** | **0** | **9** |
| Arizona | 0 | 0 | 0 | 54 | 54 | 0 | 0 | 8 |
| Colorado | 0 | 0 | 0 | 62 | 69 | 0 | 0 | 54 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 32 | 32 | 0 | 0 | 19 |
| New Mexico | 0 | 0 | 0 | 0 | 228 | 0 | 0 | 39 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| **Pacific Contiguous** | **0** | **0** | **0** | **22** | **7** | **0** | **0** | **3** |
| California | 0 | 0 | 0 | 22 | 7 | 0 | 0 | 3 |
| Oregon | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 16 |
| Washington | 0 | 0 | 0 | 0 | 64 | 0 | 0 | 25 |
| **Pacific Noncontiguous** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **17** |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **0** | **0** | **11** | **3** | **0** | **2** | **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.

## Table A.4.B. Relative Standard Error for Net Generation by Fuel Type:

### Commercial Sector by Census Division and State, Year-to-Date through April 2018

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **0** | **19** | **0** | **19** | **0** | **0** | **0** |
| Connecticut | 0 | 2,358 | 0 | 26 | 0 | 0 | 0 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 41 | 0 | 31 | 0 | 0 | 0 |
| New Hampshire | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **0** | **18** | **0** | **18** | **0** | **0** | **0** |
| New Jersey | 0 | 0 | 0 | 27 | 0 | 0 | 0 |
| New York | 0 | 102 | 0 | 24 | 0 | 0 | 0 |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East North Central** | **26** | **32** | **0** | **9** | **0** | **0** | **0** |
| Illinois | 78 | 346 | 0 | 35 | 0 | 0 | 0 |
| Indiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 0 | 2 | 0 | 9 | 0 | 0 | 0 |
| Ohio | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 0 | 0 | 0 | 16 | 0 | 0 | 0 |
| **West North Central** | **0** | **16** | **0** | **1** | **0** | **0** | **0** |
| Iowa | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Minnesota | 0 | 17 | 0 | 3 | 0 | 0 | 0 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 550 | 0 | 0 | 0 | 0 | 0 |
| **South Atlantic** | **0** | **2** | **0** | **9** | **0** | **0** | **0** |
| District of Columbia | 0 | 278 | 0 | 89 | 0 | 0 | 0 |
| Florida | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **East South Central** | **0** | **0** | **0** | **30** | **0** | **0** | **0** |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 32 | 0 | 0 | 0 |
| **West South Central** | **0** | **17** | **0** | **33** | **0** | **0** | **470** |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 37 | 0 | 0 | 0 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 17 | 0 | 42 | 0 | 0 | 470 |
| **Mountain** | **0** | **0** | **0** | **10** | **0** | **0** | **0** |
| Arizona | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 40 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| **Pacific Contiguous** | **0** | **16** | **0** | **3** | **0** | **0** | **96** |
| California | 0 | 23 | 0 | 3 | 0 | 0 | 96 |
| Oregon | 0 | 0 | 0 | 8 | 0 | 0 | 0 |
| Washington | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Pacific Noncontiguous** | **40** | **9** | **0** | **0** | **0** | **0** | **67** |
| Alaska | 40 | 18 | 0 | 0 | 0 | 0 | 67 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **18** | **8** | **0** | **5** | **0** | **0** | **50** |

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.

## Table A.4.B. Relative Standard Error for Net Generation by Fuel Type:

### Commercial Sector by Census Division and State, Year-to-Date through April 2018 (Continued)

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **74** | **7** | **0** | **0** | **14** |
| Connecticut | 0 | 0 | 0 | 234 | 234 | 0 | 0 | 26 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | 0 | 69 | 19 | 0 | 0 | 26 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **0** | **0** | **0** | **20** | **6** | **0** | **5** | **8** |
| New Jersey | 0 | 0 | 0 | 21 | 10 | 0 | 0 | 8 |
| New York | 0 | 0 | 0 | 109 | 9 | 0 | 10 | 15 |
| Pennsylvania | 0 | 0 | 0 | 87 | 12 | 0 | 0 | 5 |
| **East North Central** | **0** | **0** | **0** | **108** | **6** | **0** | **0** | **7** |
| Illinois | 0 | 0 | 0 | 148 | 94 | 0 | 0 | 31 |
| Indiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Ohio | 0 | 0 | 0 | 156 | 49 | 0 | 0 | 3 |
| Wisconsin | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 12 |
| **West North Central** | **0** | **0** | **0** | **0** | **22** | **0** | **61** | **6** |
| Iowa | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 7 |
| Kansas | 0 | 0 | 0 | 0 | 159 | 0 | 0 | 159 |
| Minnesota | 0 | 0 | 0 | 0 | 37 | 0 | 61 | 14 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 550 |
| **South Atlantic** | **0** | **0** | **0** | **21** | **7** | **0** | **0** | **5** |
| Delaware | 0 | 0 | 0 | 199 | 47 | 0 | 0 | 47 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Florida | 0 | 0 | 0 | 98 | 33 | 0 | 0 | 22 |
| Georgia | 0 | 0 | 0 | 141 | 141 | 0 | 0 | 107 |
| Maryland | 0 | 0 | 0 | 98 | 44 | 0 | 0 | 2 |
| North Carolina | 0 | 0 | 0 | 23 | 22 | 0 | 0 | 20 |
| South Carolina | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 |
| **East South Central** | **0** | **0** | **0** | **117** | **117** | **0** | **0** | **30** |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 117 | 117 | 0 | 0 | 31 |
| **West South Central** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **29** |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| **Mountain** | **0** | **0** | **0** | **25** | **24** | **0** | **0** | **9** |
| Arizona | 0 | 0 | 0 | 54 | 54 | 0 | 0 | 8 |
| Colorado | 0 | 0 | 0 | 62 | 69 | 0 | 0 | 54 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 32 | 32 | 0 | 0 | 19 |
| New Mexico | 0 | 0 | 0 | 0 | 228 | 0 | 0 | 39 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| **Pacific Contiguous** | **0** | **0** | **0** | **22** | **7** | **0** | **0** | **3** |
| California | 0 | 0 | 0 | 22 | 7 | 0 | 0 | 3 |
| Oregon | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 16 |
| Washington | 0 | 0 | 0 | 0 | 64 | 0 | 0 | 25 |
| **Pacific Noncontiguous** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **17** |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **0** | **0** | **11** | **3** | **0** | **2** | **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.

**Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, April 2018**

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **170** | **34** | **0** | **15** | **0** | **0** | **32** |
| Connecticut | 0 | 0 | 0 | 20 | 0 | 0 | 0 |
| Maine | 170 | 34 | 0 | 40 | 0 | 0 | 33 |
| Massachusetts | 0 | 0 | 0 | 10 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **28** | **11** | **134** | **10** | **31** | **0** | **28** |
| New Jersey | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| New York | 0 | 0 | 0 | 9 | 0 | 0 | 28 |
| Pennsylvania | 28 | 81 | 134 | 17 | 50 | 0 | 0 |
| **East North Central** | **6** | **7** | **0** | **7** | **15** | **0** | **46** |
| Illinois | 6 | 0 | 0 | 22 | 0 | 0 | 0 |
| Indiana | 0 | 1 | 0 | 9 | 17 | 0 | 0 |
| Michigan | 60 | 22 | 0 | 17 | 0 | 0 | 87 |
| Ohio | 107 | 0 | 0 | 17 | 0 | 0 | 0 |
| Wisconsin | 17 | 131 | 0 | 16 | 0 | 0 | 52 |
| **West North Central** | **4** | **0** | **0** | **4** | **0** | **0** | **70** |
| Iowa | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | 0 | 73 | 0 | 0 | 0 |
| Minnesota | 13 | 0 | 0 | 0 | 0 | 0 | 70 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 52 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Atlantic** | **27** | **51** | **65** | **8** | **0** | **0** | **30** |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 83 | 112 | 0 | 15 | 0 | 0 | 0 |
| Georgia | 82 | 187 | 65 | 21 | 0 | 0 | 0 |
| Maryland | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 20 | 55 | 0 | 58 | 0 | 0 | 424 |
| South Carolina | 0 | 0 | 0 | 14 | 0 | 0 | 0 |
| Virginia | 18 | 133 | 0 | 8 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| **East South Central** | **14** | **137** | **0** | **11** | **63** | **0** | **0** |
| Alabama | 94 | 179 | 0 | 20 | 97 | 0 | 0 |
| Kentucky | 0 | 0 | 0 | 24 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | 0 | 29 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| **West South Central** | **0** | **0** | **19** | **2** | **9** | **0** | **0** |
| Arkansas | 0 | 0 | 0 | 26 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 2 | 12 | 0 | 0 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | 41 | 2 | 10 | 0 | 0 |
| **Mountain** | **18** | **0** | **0** | **5** | **0** | **0** | **0** |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 104 | 0 | 0 | 54 | 0 | 0 | 0 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 18 | 0 | 0 | 8 | 0 | 0 | 0 |
| **Pacific Contiguous** | **0** | **66** | **0** | **1** | **3** | **0** | **0** |
| California | 0 | 82 | 0 | 1 | 3 | 0 | 0 |
| Oregon | 0 | 0 | 0 | 49 | 0 | 0 | 0 |
| Washington | 0 | 70 | 0 | 25 | 0 | 0 | 0 |
| **Pacific Noncontiguous** | **0** | **2** | **0** | **0** | **0** | **0** | **110** |
| Alaska | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| **U.S. Total** | **4** | **9** | **25** | **1** | **7** | **0** | **18** |

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.

## Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:

## Industrial Sector by Census Division and State, April 2018 (Continued)

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **663** | **8** | **0** | **0** | **9** |
| Connecticut | 0 | 0 | 0 | 663 | 663 | 0 | 0 | 20 |
| Maine | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 11 |
| Massachusetts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **0** | **0** | **0** | **61** | **7** | **0** | **0** | **8** |
| New Jersey | 0 | 0 | 0 | 88 | 88 | 0 | 0 | 8 |
| New York | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 7 |
| Pennsylvania | 0 | 0 | 0 | 84 | 8 | 0 | 0 | 12 |
| **East North Central** | **0** | **0** | **0** | **0** | **6** | **0** | **5** | **4** |
| Illinois | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Indiana | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 10 |
| Michigan | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 8 |
| Ohio | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 7 |
| Wisconsin | 0 | 0 | 0 | 0 | 10 | 0 | 64 | 9 |
| **West North Central** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **3** |
| Iowa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| Minnesota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| **South Atlantic** | **0** | **0** | **0** | **152** | **2** | **0** | **1** | **3** |
| Delaware | 0 | 0 | 0 | 0 | 71 | 0 | 0 | 1 |
| Florida | 0 | 0 | 0 | 152 | 5 | 0 | 0 | 5 |
| Georgia | 0 | 0 | 0 | 0 | 4 | 0 | 33 | 6 |
| Maryland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 6 |
| South Carolina | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| **East South Central** | **0** | **0** | **0** | **121** | **3** | **0** | **148** | **4** |
| Alabama | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 7 |
| Kentucky | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 14 |
| Mississippi | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 7 |
| Tennessee | 0 | 0 | 0 | 121 | 7 | 0 | 148 | 3 |
| **West South Central** | **0** | **0** | **0** | **0** | **3** | **0** | **3** | **2** |
| Arkansas | 0 | 0 | 0 | 0 | 5 | 0 | 60 | 6 |
| Louisiana | 0 | 0 | 0 | 0 | 5 | 0 | 3 | 2 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | 0 | 0 | 10 | 0 | 8 | 2 |
| **Mountain** | **0** | **0** | **0** | **0** | **2** | **0** | **0** | **4** |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 10 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| **Pacific Contiguous** | **0** | **0** | **0** | **47** | **6** | **0** | **3** | **1** |
| California | 0 | 0 | 0 | 47 | 10 | 0 | 3 | 1 |
| Oregon | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 |
| Washington | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 |
| **Pacific Noncontiguous** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **9** |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| **U.S. Total** | **0** | **0** | **0** | **33** | **2** | **0** | **1** | **1** |

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.

## Table A.5.B. Relative Standard Error for Net Generation by Fuel Type:

### Industrial Sector by Census Division and State, Year-to-Date through April 2018

| Census Region and State | Coal | Petroleum Liquids | Petroleum Coke | Natural Gas | Other Gases | Nuclear | Hydroelectric Conventional |
|---|---|---|---|---|---|---|---|
| **New England** | **170** | **34** | **0** | **15** | **0** | **0** | **32** |
| Connecticut | 0 | 0 | 0 | 20 | 0 | 0 | 0 |
| Maine | 170 | 34 | 0 | 40 | 0 | 0 | 33 |
| Massachusetts | 0 | 0 | 0 | 10 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **28** | **11** | **134** | **10** | **31** | **0** | **28** |
| New Jersey | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| New York | 0 | 0 | 0 | 9 | 0 | 0 | 28 |
| Pennsylvania | 28 | 81 | 134 | 17 | 50 | 0 | 0 |
| **East North Central** | **6** | **7** | **0** | **7** | **15** | **0** | **46** |
| Illinois | 6 | 0 | 0 | 22 | 0 | 0 | 0 |
| Indiana | 0 | 1 | 0 | 9 | 17 | 0 | 0 |
| Michigan | 60 | 22 | 0 | 17 | 0 | 0 | 87 |
| Ohio | 107 | 0 | 0 | 17 | 0 | 0 | 0 |
| Wisconsin | 17 | 131 | 0 | 16 | 0 | 0 | 52 |
| **West North Central** | **4** | **0** | **0** | **4** | **0** | **0** | **70** |
| Iowa | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 0 | 0 | 0 | 73 | 0 | 0 | 0 |
| Minnesota | 13 | 0 | 0 | 0 | 0 | 0 | 70 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 52 | 0 | 0 | 0 | 0 | 0 | 0 |
| **South Atlantic** | **27** | **51** | **65** | **8** | **0** | **0** | **30** |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 83 | 112 | 0 | 15 | 0 | 0 | 0 |
| Georgia | 82 | 187 | 65 | 21 | 0 | 0 | 0 |
| Maryland | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 20 | 55 | 0 | 58 | 0 | 0 | 424 |
| South Carolina | 0 | 0 | 0 | 14 | 0 | 0 | 0 |
| Virginia | 18 | 133 | 0 | 8 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| **East South Central** | **14** | **137** | **0** | **11** | **63** | **0** | **0** |
| Alabama | 94 | 179 | 0 | 20 | 97 | 0 | 0 |
| Kentucky | 0 | 0 | 0 | 24 | 0 | 0 | 0 |
| Mississippi | 0 | 0 | 0 | 29 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| **West South Central** | **0** | **0** | **19** | **2** | **9** | **0** | **0** |
| Arkansas | 0 | 0 | 0 | 26 | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 | 2 | 12 | 0 | 0 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | 41 | 2 | 10 | 0 | 0 |
| **Mountain** | **18** | **0** | **0** | **5** | **0** | **0** | **0** |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 104 | 0 | 0 | 54 | 0 | 0 | 0 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 18 | 0 | 0 | 8 | 0 | 0 | 0 |
| **Pacific Contiguous** | **0** | **66** | **0** | **1** | **3** | **0** | **0** |
| California | 0 | 82 | 0 | 1 | 3 | 0 | 0 |
| Oregon | 0 | 0 | 0 | 49 | 0 | 0 | 0 |
| Washington | 0 | 70 | 0 | 25 | 0 | 0 | 0 |
| **Pacific Noncontiguous** | **0** | **2** | **0** | **0** | **0** | **0** | **110** |
| Alaska | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| **U.S. Total** | **4** | **9** | **25** | **1** | **7** | **0** | **18** |

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.

## Table A.5.B. Relative Standard Error for Net Generation by Fuel Type:

### Industrial Sector by Census Division and State, Year-to-Date through April 2018 (Continued)

| Census Region and State | Wind | Geothermal | Biomass | Solar Thermal and Photovoltaic | Other Renewables | Hydroelectric Pumped Storage | Other Energy Sources | All Energy Sources |
|---|---|---|---|---|---|---|---|---|
| **New England** | **0** | **0** | **0** | **663** | **8** | **0** | **0** | **9** |
| Connecticut | 0 | 0 | 0 | 663 | 663 | 0 | 0 | 20 |
| Maine | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 11 |
| Massachusetts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Middle Atlantic** | **0** | **0** | **0** | **61** | **7** | **0** | **0** | **8** |
| New Jersey | 0 | 0 | 0 | 88 | 88 | 0 | 0 | 8 |
| New York | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 7 |
| Pennsylvania | 0 | 0 | 0 | 84 | 8 | 0 | 0 | 12 |
| **East North Central** | **0** | **0** | **0** | **0** | **6** | **0** | **5** | **4** |
| Illinois | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Indiana | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 10 |
| Michigan | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 8 |
| Ohio | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 7 |
| Wisconsin | 0 | 0 | 0 | 0 | 10 | 0 | 64 | 9 |
| **West North Central** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **3** |
| Iowa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| Minnesota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| **South Atlantic** | **0** | **0** | **0** | **152** | **2** | **0** | **1** | **3** |
| Delaware | 0 | 0 | 0 | 0 | 71 | 0 | 0 | 1 |
| Florida | 0 | 0 | 0 | 152 | 5 | 0 | 0 | 5 |
| Georgia | 0 | 0 | 0 | 0 | 4 | 0 | 33 | 6 |
| Maryland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 6 |
| South Carolina | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| **East South Central** | **0** | **0** | **0** | **121** | **3** | **0** | **148** | **4** |
| Alabama | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 7 |
| Kentucky | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 14 |
| Mississippi | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 7 |
| Tennessee | 0 | 0 | 0 | 121 | 7 | 0 | 148 | 3 |
| **West South Central** | **0** | **0** | **0** | **0** | **3** | **0** | **3** | **2** |
| Arkansas | 0 | 0 | 0 | 0 | 5 | 0 | 60 | 6 |
| Louisiana | 0 | 0 | 0 | 0 | 5 | 0 | 3 | 2 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 0 | 0 | 0 | 0 | 10 | 0 | 8 | 2 |
| **Mountain** | **0** | **0** | **0** | **0** | **2** | **0** | **0** | **4** |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 10 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| **Pacific Contiguous** | **0** | **0** | **0** | **47** | **6** | **0** | **3** | **1** |
| California | 0 | 0 | 0 | 47 | 10 | 0 | 3 | 1 |
| Oregon | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 |
| Washington | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 |
| **Pacific Noncontiguous** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **9** |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| **U.S. Total** | **0** | **0** | **0** | **33** | **2** | **0** | **1** | **1** |

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.

**Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, April 2018**

| Census Region and State | Residential | Commercial | Industrial | Transportation | Total |
|---|---|---|---|---|---|
| **New England** | **1** | **1** | **4** | **0** | **1** |
| Connecticut | 1 | 2 | 5 | 0 | 1 |
| Maine | 1 | 2 | 2 | 0 | 1 |
| Massachusetts | 1 | 2 | 9 | 0 | 2 |
| New Hampshire | 1 | 2 | 5 | 0 | 1 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 |
| Vermont | 3 | 7 | 7 | 0 | 4 |
| **Middle Atlantic** | **0** | **0** | **1** | **0** | **0** |
| New Jersey | 0 | 1 | 3 | 0 | 0 |
| New York | 0 | 1 | 2 | 0 | 0 |
| Pennsylvania | 0 | 1 | 1 | 0 | 0 |
| **East North Central** | **1** | **1** | **1** | **0** | **1** |
| Illinois | 1 | 2 | 1 | 0 | 1 |
| Indiana | 2 | 4 | 2 | 0 | 1 |
| Michigan | 1 | 2 | 3 | 0 | 1 |
| Ohio | 1 | 2 | 2 | 0 | 1 |
| Wisconsin | 1 | 4 | 5 | 0 | 2 |
| **West North Central** | **1** | **2** | **3** | **0** | **1** |
| Iowa | 2 | 8 | 5 | 0 | 3 |
| Kansas | 2 | 1 | 7 | 0 | 2 |
| Minnesota | 2 | 5 | 6 | 0 | 3 |
| Missouri | 2 | 3 | 7 | 0 | 2 |
| Nebraska | 2 | 8 | 9 | 0 | 4 |
| North Dakota | 2 | 4 | 9 | 0 | 4 |
| South Dakota | 2 | 10 | 12 | 0 | 5 |
| **South Atlantic** | **0** | **0** | **2** | **0** | **0** |
| Delaware | 1 | 4 | 8 | 0 | 2 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 |
| Florida | 1 | 0 | 5 | 0 | 1 |
| Georgia | 1 | 1 | 4 | 0 | 1 |
| Maryland | 1 | 1 | 4 | 0 | 1 |
| North Carolina | 1 | 1 | 3 | 0 | 1 |
| South Carolina | 2 | 1 | 3 | 0 | 1 |
| Virginia | 1 | 0 | 4 | 0 | 1 |
| West Virginia | 0 | 1 | 0 | 0 | 0 |
| **East South Central** | **1** | **2** | **2** | **0** | **1** |
| Alabama | 2 | 1 | 2 | 0 | 1 |
| Kentucky | 2 | 4 | 4 | 0 | 2 |
| Mississippi | 2 | 1 | 5 | 0 | 2 |
| Tennessee | 1 | 4 | 5 | 0 | 2 |
| **West South Central** | **1** | **1** | **1** | **0** | **1** |
| Arkansas | 2 | 1 | 4 | 0 | 2 |
| Louisiana | 2 | 1 | 1 | 0 | 1 |
| Oklahoma | 2 | 1 | 4 | 0 | 2 |
| Texas | 2 | 1 | 2 | 0 | 1 |
| **Mountain** | **0** | **2** | **2** | **0** | **1** |
| Arizona | 0 | 2 | 4 | 0 | 1 |
| Colorado | 1 | 5 | 7 | 0 | 3 |
| Idaho | 1 | 5 | 4 | 0 | 2 |
| Montana | 2 | 8 | 8 | 0 | 4 |
| Nevada | 0 | 3 | 1 | 0 | 1 |
| New Mexico | 2 | 8 | 8 | 0 | 4 |
| Utah | 1 | 5 | 3 | 0 | 2 |
| Wyoming | 2 | 8 | 4 | 0 | 3 |
| **Pacific Contiguous** | **0** | **1** | **3** | **0** | **1** |
| California | 0 | 1 | 2 | 0 | 1 |
| Oregon | 1 | 4 | 9 | 0 | 3 |
| Washington | 1 | 4 | 7 | 0 | 2 |
| **Pacific Noncontiguous** | **1** | **5** | **4** | **0** | **2** |
| Alaska | 3 | 10 | 15 | 0 | 6 |
| Hawaii | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **0** | **1** | **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.

## Table A.6.B. Relative Standard Error for Sales of Electricity to Ultimate Customers

## by End-Use Sector, Census Division, and State, Year-to-Date through April 2018

| Census Region and State | Residential | Commercial | Industrial | Transportation | Total |
|---|---|---|---|---|---|
| **New England** | **1** | **1** | **3** | **0** | **1** |
| Connecticut | 1 | 1 | 4 | 0 | 1 |
| Maine | 1 | 1 | 1 | 0 | 1 |
| Massachusetts | 1 | 1 | 7 | 0 | 1 |
| New Hampshire | 1 | 1 | 4 | 0 | 1 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 |
| Vermont | 3 | 5 | 6 | 0 | 3 |
| **Middle Atlantic** | **0** | **0** | **1** | **0** | **0** |
| New Jersey | 0 | 0 | 2 | 0 | 0 |
| New York | 0 | 0 | 2 | 0 | 0 |
| Pennsylvania | 0 | 1 | 0 | 0 | 0 |
| **East North Central** | **0** | **1** | **1** | **0** | **0** |
| Illinois | 1 | 1 | 1 | 0 | 1 |
| Indiana | 1 | 2 | 2 | 0 | 1 |
| Michigan | 1 | 2 | 2 | 0 | 1 |
| Ohio | 1 | 1 | 1 | 0 | 1 |
| Wisconsin | 1 | 3 | 4 | 0 | 2 |
| **West North Central** | **1** | **2** | **2** | **0** | **1** |
| Iowa | 1 | 6 | 4 | 0 | 2 |
| Kansas | 2 | 1 | 5 | 0 | 2 |
| Minnesota | 1 | 4 | 5 | 0 | 2 |
| Missouri | 1 | 2 | 5 | 0 | 1 |
| Nebraska | 1 | 6 | 7 | 0 | 3 |
| North Dakota | 1 | 3 | 7 | 0 | 3 |
| South Dakota | 2 | 7 | 9 | 0 | 3 |
| **South Atlantic** | **0** | **0** | **1** | **0** | **0** |
| Delaware | 1 | 3 | 6 | 0 | 2 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 |
| Florida | 1 | 0 | 4 | 0 | 0 |
| Georgia | 1 | 1 | 3 | 0 | 1 |
| Maryland | 1 | 1 | 3 | 0 | 0 |
| North Carolina | 1 | 1 | 3 | 0 | 1 |
| South Carolina | 1 | 1 | 2 | 0 | 1 |
| Virginia | 1 | 0 | 3 | 0 | 1 |
| West Virginia | 0 | 1 | 0 | 0 | 0 |
| **East South Central** | **1** | **1** | **1** | **0** | **1** |
| Alabama | 1 | 1 | 2 | 0 | 1 |
| Kentucky | 2 | 3 | 3 | 0 | 1 |
| Mississippi | 2 | 1 | 4 | 0 | 2 |
| Tennessee | 1 | 2 | 4 | 0 | 1 |
| **West South Central** | **1** | **0** | **1** | **0** | **1** |
| Arkansas | 2 | 1 | 3 | 0 | 1 |
| Louisiana | 1 | 1 | 1 | 0 | 1 |
| Oklahoma | 2 | 1 | 4 | 0 | 1 |
| Texas | 1 | 0 | 1 | 0 | 1 |
| **Mountain** | **0** | **1** | **2** | **0** | **1** |
| Arizona | 1 | 2 | 3 | 0 | 1 |
| Colorado | 1 | 4 | 5 | 0 | 2 |
| Idaho | 1 | 4 | 4 | 0 | 2 |
| Montana | 2 | 6 | 7 | 0 | 3 |
| Nevada | 1 | 2 | 1 | 0 | 1 |
| New Mexico | 2 | 6 | 6 | 0 | 3 |
| Utah | 2 | 4 | 2 | 0 | 2 |
| Wyoming | 2 | 6 | 3 | 0 | 2 |
| **Pacific Contiguous** | **0** | **1** | **2** | **0** | **1** |
| California | 0 | 1 | 2 | 0 | 1 |
| Oregon | 1 | 4 | 8 | 0 | 2 |
| Washington | 1 | 3 | 5 | 0 | 2 |
| **Pacific Noncontiguous** | **1** | **4** | **3** | **0** | **2** |
| Alaska | 2 | 8 | 11 | 0 | 4 |
| Hawaii | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **0** | **1** | **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.

**Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, April 2018**

| Census Region and State | Residential | Commercial | Industrial | Transportation | Total |
|---|---|---|---|---|---|
| **New England** | **0** | **1** | **2** | **0** | **1** |
| Connecticut | 0 | 2 | 2 | 0 | 1 |
| Maine | 1 | 3 | 2 | 0 | 1 |
| Massachusetts | 1 | 2 | 5 | 0 | 1 |
| New Hampshire | 1 | 2 | 4 | 0 | 1 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 |
| Vermont | 3 | 8 | 6 | 0 | 4 |
| **Middle Atlantic** | **0** | **0** | **1** | **0** | **0** |
| New Jersey | 1 | 1 | 3 | 0 | 1 |
| New York | 0 | 0 | 2 | 0 | 0 |
| Pennsylvania | 0 | 1 | 1 | 0 | 0 |
| **East North Central** | **1** | **1** | **2** | **0** | **1** |
| Illinois | 1 | 2 | 2 | 0 | 1 |
| Indiana | 2 | 5 | 2 | 0 | 2 |
| Michigan | 1 | 2 | 5 | 0 | 1 |
| Ohio | 1 | 2 | 3 | 0 | 1 |
| Wisconsin | 1 | 3 | 6 | 0 | 2 |
| **West North Central** | **1** | **2** | **4** | **0** | **1** |
| Iowa | 2 | 6 | 7 | 0 | 3 |
| Kansas | 2 | 2 | 7 | 0 | 2 |
| Minnesota | 2 | 4 | 8 | 0 | 2 |
| Missouri | 2 | 4 | 6 | 0 | 2 |
| Nebraska | 3 | 6 | 11 | 0 | 4 |
| North Dakota | 2 | 4 | 9 | 0 | 4 |
| South Dakota | 3 | 7 | 14 | 0 | 4 |
| **South Atlantic** | **1** | **1** | **2** | **0** | **0** |
| Delaware | 2 | 6 | 11 | 0 | 3 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 |
| Florida | 1 | 1 | 5 | 0 | 1 |
| Georgia | 2 | 1 | 4 | 0 | 1 |
| Maryland | 1 | 1 | 4 | 0 | 1 |
| North Carolina | 1 | 1 | 4 | 0 | 1 |
| South Carolina | 2 | 2 | 3 | 0 | 1 |
| Virginia | 1 | 1 | 4 | 0 | 1 |
| West Virginia | 1 | 2 | 0 | 0 | 1 |
| **East South Central** | **1** | **2** | **2** | **0** | **1** |
| Alabama | 2 | 2 | 3 | 0 | 1 |
| Kentucky | 3 | 6 | 4 | 0 | 2 |
| Mississippi | 2 | 3 | 6 | 0 | 2 |
| Tennessee | 2 | 5 | 5 | 0 | 2 |
| **West South Central** | **1** | **1** | **2** | **0** | **1** |
| Arkansas | 2 | 3 | 5 | 0 | 2 |
| Louisiana | 2 | 2 | 2 | 0 | 1 |
| Oklahoma | 2 | 2 | 5 | 0 | 2 |
| Texas | 1 | 1 | 2 | 0 | 1 |
| **Mountain** | **1** | **2** | **3** | **0** | **1** |
| Arizona | 1 | 2 | 5 | 0 | 1 |
| Colorado | 2 | 5 | 8 | 0 | 3 |
| Idaho | 2 | 4 | 5 | 0 | 2 |
| Montana | 3 | 5 | 19 | 0 | 4 |
| Nevada | 1 | 3 | 2 | 0 | 1 |
| New Mexico | 3 | 8 | 12 | 0 | 5 |
| Utah | 2 | 6 | 4 | 0 | 3 |
| Wyoming | 3 | 6 | 5 | 0 | 3 |
| **Pacific Contiguous** | **0** | **1** | **3** | **0** | **1** |
| California | 1 | 1 | 3 | 0 | 1 |
| Oregon | 2 | 3 | 11 | 0 | 2 |
| Washington | 1 | 3 | 9 | 0 | 2 |
| **Pacific Noncontiguous** | **1** | **2** | **3** | **0** | **1** |
| Alaska | 3 | 7 | 13 | 0 | 4 |
| Hawaii | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **0** | **1** | **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.

## Table A.7.B. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers

## by End-Use Sector, Census Division, and State, Year-to-Date through April 2018

| Census Region and State | Residential | Commercial | Industrial | Transportation | Total |
|---|---|---|---|---|---|
| **New England** | **0** | **1** | **2** | **0** | **0** |
| Connecticut | 0 | 1 | 2 | 0 | 1 |
| Maine | 1 | 1 | 1 | 0 | 1 |
| Massachusetts | 1 | 1 | 4 | 0 | 1 |
| New Hampshire | 1 | 1 | 3 | 0 | 1 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 |
| Vermont | 3 | 5 | 5 | 0 | 2 |
| **Middle Atlantic** | **0** | **0** | **1** | **0** | **0** |
| New Jersey | 1 | 1 | 2 | 0 | 0 |
| New York | 0 | 0 | 1 | 0 | 0 |
| Pennsylvania | 0 | 1 | 1 | 0 | 0 |
| **East North Central** | **1** | **1** | **1** | **0** | **0** |
| Illinois | 1 | 1 | 2 | 0 | 1 |
| Indiana | 2 | 3 | 1 | 0 | 1 |
| Michigan | 1 | 1 | 3 | 0 | 1 |
| Ohio | 1 | 1 | 2 | 0 | 1 |
| Wisconsin | 1 | 2 | 5 | 0 | 1 |
| **West North Central** | **1** | **1** | **3** | **0** | **1** |
| Iowa | 2 | 5 | 6 | 0 | 2 |
| Kansas | 2 | 2 | 5 | 0 | 1 |
| Minnesota | 2 | 3 | 6 | 0 | 2 |
| Missouri | 2 | 3 | 5 | 0 | 2 |
| Nebraska | 2 | 5 | 9 | 0 | 3 |
| North Dakota | 2 | 3 | 7 | 0 | 3 |
| South Dakota | 2 | 6 | 11 | 0 | 3 |
| **South Atlantic** | **1** | **0** | **1** | **0** | **0** |
| Delaware | 2 | 4 | 8 | 0 | 2 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 |
| Florida | 1 | 1 | 4 | 0 | 1 |
| Georgia | 2 | 1 | 3 | 0 | 1 |
| Maryland | 1 | 1 | 3 | 0 | 0 |
| North Carolina | 1 | 1 | 3 | 0 | 1 |
| South Carolina | 1 | 1 | 3 | 0 | 1 |
| Virginia | 1 | 1 | 3 | 0 | 1 |
| West Virginia | 0 | 1 | 0 | 0 | 0 |
| **East South Central** | **1** | **2** | **2** | **0** | **1** |
| Alabama | 1 | 1 | 2 | 0 | 1 |
| Kentucky | 2 | 4 | 3 | 0 | 2 |
| Mississippi | 2 | 2 | 4 | 0 | 2 |
| Tennessee | 2 | 3 | 4 | 0 | 1 |
| **West South Central** | **1** | **1** | **1** | **0** | **1** |
| Arkansas | 2 | 2 | 3 | 0 | 1 |
| Louisiana | 2 | 1 | 1 | 0 | 1 |
| Oklahoma | 2 | 2 | 4 | 0 | 1 |
| Texas | 1 | 1 | 2 | 0 | 1 |
| **Mountain** | **1** | **1** | **2** | **0** | **1** |
| Arizona | 1 | 2 | 4 | 0 | 1 |
| Colorado | 2 | 4 | 6 | 0 | 2 |
| Idaho | 1 | 3 | 5 | 0 | 1 |
| Montana | 2 | 4 | 15 | 0 | 3 |
| Nevada | 1 | 3 | 2 | 0 | 1 |
| New Mexico | 3 | 6 | 10 | 0 | 4 |
| Utah | 2 | 5 | 3 | 0 | 2 |
| Wyoming | 2 | 5 | 4 | 0 | 2 |
| **Pacific Contiguous** | **0** | **1** | **2** | **0** | **0** |
| California | 0 | 1 | 2 | 0 | 0 |
| Oregon | 1 | 3 | 9 | 0 | 2 |
| Washington | 1 | 2 | 8 | 0 | 1 |
| **Pacific Noncontiguous** | **1** | **2** | **2** | **0** | **1** |
| Alaska | 2 | 5 | 10 | 0 | 3 |
| Hawaii | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **0** | **1** | **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.

**Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, April 2018**

| Census Region and State | Residential | Commercial | Industrial | Transportation | Total |
|---|---|---|---|---|---|
| **New England** | **0** | **0** | **2** | **0** | **0** |
| Connecticut | 0 | 1 | 3 | 0 | 1 |
| Maine | 1 | 1 | 1 | 0 | 0 |
| Massachusetts | 1 | 0 | 4 | 0 | 1 |
| New Hampshire | 1 | 0 | 1 | 0 | 1 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 |
| Vermont | 2 | 2 | 3 | 0 | 2 |
| **Middle Atlantic** | **0** | **0** | **1** | **0** | **0** |
| New Jersey | 0 | 0 | 1 | 0 | 0 |
| New York | 0 | 0 | 1 | 0 | 0 |
| Pennsylvania | 0 | 0 | 1 | 0 | 0 |
| **East North Central** | **0** | **0** | **1** | **0** | **0** |
| Illinois | 1 | 1 | 1 | 0 | 1 |
| Indiana | 1 | 1 | 1 | 0 | 1 |
| Michigan | 0 | 1 | 2 | 0 | 1 |
| Ohio | 1 | 0 | 1 | 0 | 1 |
| Wisconsin | 1 | 1 | 3 | 0 | 1 |
| **West North Central** | **1** | **1** | **2** | **0** | **1** |
| Iowa | 1 | 3 | 3 | 0 | 1 |
| Kansas | 2 | 2 | 4 | 0 | 1 |
| Minnesota | 1 | 2 | 4 | 0 | 1 |
| Missouri | 1 | 2 | 2 | 0 | 1 |
| Nebraska | 2 | 2 | 5 | 0 | 2 |
| North Dakota | 1 | 1 | 3 | 0 | 1 |
| South Dakota | 2 | 3 | 5 | 0 | 2 |
| **South Atlantic** | **0** | **0** | **1** | **0** | **0** |
| Delaware | 1 | 3 | 4 | 0 | 1 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 |
| Florida | 1 | 1 | 3 | 0 | 0 |
| Georgia | 1 | 1 | 2 | 0 | 1 |
| Maryland | 0 | 0 | 1 | 0 | 0 |
| North Carolina | 1 | 1 | 2 | 0 | 1 |
| South Carolina | 1 | 1 | 2 | 0 | 1 |
| Virginia | 1 | 1 | 2 | 0 | 1 |
| West Virginia | 0 | 1 | 0 | 0 | 0 |
| **East South Central** | **1** | **1** | **1** | **0** | **1** |
| Alabama | 1 | 2 | 1 | 0 | 1 |
| Kentucky | 2 | 2 | 1 | 0 | 1 |
| Mississippi | 2 | 2 | 3 | 0 | 1 |
| Tennessee | 1 | 2 | 2 | 0 | 1 |
| **West South Central** | **1** | **1** | **1** | **0** | **0** |
| Arkansas | 2 | 3 | 2 | 0 | 1 |
| Louisiana | 1 | 1 | 1 | 0 | 1 |
| Oklahoma | 1 | 2 | 3 | 0 | 1 |
| Texas | 1 | 1 | 1 | 0 | 1 |
| **Mountain** | **0** | **1** | **1** | **0** | **0** |
| Arizona | 0 | 1 | 2 | 0 | 0 |
| Colorado | 1 | 1 | 3 | 0 | 1 |
| Idaho | 1 | 2 | 2 | 0 | 1 |
| Montana | 2 | 3 | 12 | 0 | 2 |
| Nevada | 0 | 1 | 1 | 0 | 1 |
| New Mexico | 2 | 2 | 6 | 0 | 2 |
| Utah | 2 | 2 | 2 | 0 | 1 |
| Wyoming | 2 | 3 | 2 | 0 | 1 |
| **Pacific Contiguous** | **0** | **1** | **1** | **0** | **0** |
| California | 0 | 0 | 1 | 0 | 0 |
| Oregon | 1 | 2 | 4 | 0 | 1 |
| Washington | 1 | 2 | 3 | 0 | 1 |
| **Pacific Noncontiguous** | **1** | **3** | **2** | **0** | **1** |
| Alaska | 2 | 5 | 6 | 0 | 3 |
| Hawaii | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **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.

## Table A.8.B. Relative Standard Error for Average Price of Electricity to Ultimate Customers

## by End-Use Sector, Census Division, and State, Year-to-Date through April 2018

| Census Region and State | Residential | Commercial | Industrial | Transportation | Total |
|---|---|---|---|---|---|
| **New England** | **1** | **1** | **3** | **0** | **1** |
| Connecticut | 1 | 1 | 4 | 0 | 1 |
| Maine | 1 | 1 | 2 | 0 | 1 |
| Massachusetts | 1 | 1 | 6 | 0 | 1 |
| New Hampshire | 1 | 1 | 4 | 0 | 1 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 |
| Vermont | 3 | 5 | 6 | 0 | 3 |
| **Middle Atlantic** | **0** | **0** | **1** | **0** | **0** |
| New Jersey | 1 | 1 | 2 | 0 | 0 |
| New York | 0 | 0 | 2 | 0 | 0 |
| Pennsylvania | 0 | 1 | 1 | 0 | 0 |
| **East North Central** | **1** | **1** | **1** | **0** | **0** |
| Illinois | 1 | 1 | 2 | 0 | 1 |
| Indiana | 2 | 3 | 2 | 0 | 1 |
| Michigan | 1 | 2 | 3 | 0 | 1 |
| Ohio | 1 | 1 | 2 | 0 | 1 |
| Wisconsin | 1 | 3 | 5 | 0 | 2 |
| **West North Central** | **1** | **2** | **3** | **0** | **1** |
| Iowa | 2 | 6 | 6 | 0 | 3 |
| Kansas | 2 | 2 | 6 | 0 | 2 |
| Minnesota | 2 | 4 | 7 | 0 | 2 |
| Missouri | 2 | 3 | 5 | 0 | 1 |
| Nebraska | 2 | 6 | 9 | 0 | 3 |
| North Dakota | 2 | 3 | 7 | 0 | 3 |
| South Dakota | 2 | 7 | 11 | 0 | 4 |
| **South Atlantic** | **1** | **0** | **2** | **0** | **0** |
| Delaware | 2 | 4 | 8 | 0 | 2 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 |
| Florida | 1 | 1 | 5 | 0 | 1 |
| Georgia | 1 | 1 | 3 | 0 | 1 |
| Maryland | 1 | 1 | 3 | 0 | 0 |
| North Carolina | 1 | 1 | 3 | 0 | 1 |
| South Carolina | 1 | 1 | 3 | 0 | 1 |
| Virginia | 1 | 1 | 3 | 0 | 1 |
| West Virginia | 0 | 1 | 0 | 0 | 0 |
| **East South Central** | **1** | **2** | **2** | **0** | **1** |
| Alabama | 1 | 1 | 2 | 0 | 1 |
| Kentucky | 2 | 4 | 3 | 0 | 2 |
| Mississippi | 2 | 2 | 5 | 0 | 2 |
| Tennessee | 2 | 3 | 5 | 0 | 2 |
| **West South Central** | **1** | **1** | **1** | **0** | **1** |
| Arkansas | 2 | 2 | 4 | 0 | 1 |
| Louisiana | 1 | 1 | 1 | 0 | 1 |
| Oklahoma | 2 | 2 | 4 | 0 | 1 |
| Texas | 1 | 1 | 2 | 0 | 1 |
| **Mountain** | **1** | **2** | **2** | **0** | **1** |
| Arizona | 1 | 2 | 4 | 0 | 1 |
| Colorado | 2 | 4 | 7 | 0 | 2 |
| Idaho | 1 | 4 | 5 | 0 | 2 |
| Montana | 2 | 6 | 14 | 0 | 3 |
| Nevada | 1 | 3 | 2 | 0 | 1 |
| New Mexico | 3 | 7 | 9 | 0 | 4 |
| Utah | 2 | 5 | 3 | 0 | 2 |
| Wyoming | 2 | 6 | 4 | 0 | 3 |
| **Pacific Contiguous** | **0** | **1** | **3** | **0** | **1** |
| California | 0 | 1 | 2 | 0 | 1 |
| Oregon | 1 | 4 | 10 | 0 | 2 |
| Washington | 1 | 3 | 7 | 0 | 2 |
| **Pacific Noncontiguous** | **1** | **4** | **3** | **0** | **2** |
| Alaska | 3 | 8 | 12 | 0 | 4 |
| Hawaii | 0 | 0 | 0 | 0 | 0 |
| **U.S. Total** | **0** | **0** | **1** | **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.

**Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018**

| Year | Month | Event Date and Time | Restoration Date and Time | Duration | Utility/Power Pool | NERC Region | Area Affected | Type of Disturbance | Loss (megawatts) | Number of Customers Affected |
|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 1 | 01/01/2018 5:43 PM | ongoing | ongoing | American Electric Power - Texas | TRE | Texas: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather | Unknown | Unknown |
| 2018 | 1 | 01/01/2018 6:21 PM | 01/02/2018 6:11 PM | 23 Hours, 50 Minutes | Tennessee Valley Authority | SERC | Tennessee: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather | Unknown | Unknown |
| 2018 | 1 | 01/01/2018 9:37 PM | 01/02/2018 10:30 AM | 12 Hours, 53 Minutes | Memphis Light Gas and Water Division | SERC | Tennessee: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations | Unknown | Unknown |
| 2018 | 1 | 01/02/2018 6:45 AM | 01/02/2018 9:00 AM | 2 Hours, 15 Minutes | Duke Energy Progress | SERC | North Carolina: South Carolina: | System-wide voltage reductions of 3 percent or more-Severe Weather | 14998 | Unknown |
| 2018 | 1 | 01/02/2018 7:30 AM | ongoing | ongoing | South Carolina Electric and Gas | SERC | South Carolina: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather | 0 | 717000 |
| 2018 | 1 | 01/02/2018 10:00 AM | 02/12/2018 8:00 AM | 982 Hours, 0 Minutes | Somerset Operating Company, LLC | NPCC | New York: Niagara County: | Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency | 675 | Unknown |
| 2018 | 1 | 01/15/2018 4:20 AM | 01/18/2018 5:48 AM | 73 Hours, 28 Minutes | American Electric Power - Texas | TRE | Texas: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather | Unknown | Unknown |
| 2018 | 1 | 01/16/2018 1:57 PM | 01/16/2018 2:32 PM | 0 Hours, 35 Minutes | ERCOT | TRE | Texas: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather | Unknown | Unknown |
| 2018 | 1 | 01/16/2018 3:00 PM | 01/18/2018 1:00 PM | 46 Hours, 0 Minutes | Memphis Light Gas and Water Division | SERC | Tennessee: Shelby County: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations | Unknown | Unknown |
| 2018 | 1 | 01/16/2018 3:00 PM | 01/18/2018 1:00 PM | 46 Hours, 0 Minutes | Tennessee Valley Authority | SERC | Tennessee: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather | Unknown | Unknown |
| 2018 | 1 | 01/17/2018 5:10 AM | 01/17/2018 1:00 PM | 7 Hours, 50 Minutes | Cooperative Energy | SERC | Mississippi: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations | 1788 | 420000 |
| 2018 | 1 | 01/17/2018 6:10 AM | 01/17/2018 2:00 PM | 7 Hours, 50 Minutes | Louisiana Generating LLC | SERC | Louisiana: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations | Unknown | Unknown |
| 2018 | 1 | 01/18/2018 5:00 AM | 01/18/2018 9:45 AM | 4 Hours, 45 Minutes | Cooperative Energy | SERC | Mississippi: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations | 1760 | 420000 |
| 2018 | 1 | 01/18/2018 5:00 AM | 01/18/2018 11:00 AM | 6 Hours, 0 Minutes | Entergy Services, Inc. | SERC | Arkansas: Mississippi: Louisiana: Texas: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather | 31500 | Unknown |
| 2018 | 1 | 01/18/2018 6:00 AM | ongoing | ongoing | Louisiana Generating LLC | SERC | Louisiana: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations | Unknown | Unknown |
| 2018 | 2 | 02/08/2018 1:25 PM | 02/08/2018 1:31 PM | 0 Hours, 6 Minutes | Pacific Gas & Electric Co | WECC | California: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations | 30 | 10900 |
| 2018 | 3 | 03/01/2018 11:43 AM | 03/01/2018 11:56 AM | 0 Hours, 13 Minutes | Pacific Gas & Electric Co | WECC | California: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather | 38 | 10898 |
| 2018 | 3 | 03/01/2018 9:57 PM | 03/02/2018 10:14 AM | 12 Hours, 17 Minutes | The Illuminating Company | RF | Ohio: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 86501 |
| 2018 | 3 | 03/01/2018 10:20 PM | 03/04/2018 8:00 PM | 69 Hours, 40 Minutes | Detroit Edison Co | RF | Michigan: Wayne County, Washtenaw County, Oakland County, Macomb County, Monroe County: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 95000 |
| 2018 | 3 | 03/02/2018 7:00 AM | ongoing | ongoing | Central Hudson Gas & Elec Corp | NPCC | New York: Dutchess County, Orange County, Greene County, Ulster County, Putnam County, Sullivan County, Albany County, Columbia County: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 90000 |
| 2018 | 3 | 03/02/2018 8:00 AM | 03/03/2018 11:00 PM | 39 Hours, 0 Minutes | American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054) | RF | Virginia: West Virginia: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 65198 |
| 2018 | 3 | 03/02/2018 8:42 AM | ongoing | ongoing | Niagara Mohawk Power Corporation (dba National Grid) | NPCC | New York: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 63331 |

**Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018**

| Year | Month | Event Date and Time | Restoration Date and Time | Duration | Utility/Power Pool | NERC Region | Area Affected | Type of Disturbance | Loss (megawatts) | Number of Customers Affected |
|---|---|---|---|---|---|---|---|---|---|---|
| 2018 | 3 | 03/02/2018 11:34 AM | ongoing | ongoing | New York State Electric & Gas | NPCC | New York: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 50000 |
| 2018 | 3 | 03/02/2018 11:58 AM | ongoing | ongoing | PPL Electric Utilities Corp | RF | Pennsylvania: Berks County, Bucks County, Carbon County, Chester County, Clinton County, Columbia County, Cumberland County, Dauphin County, Juniata County, Lackawanna County, Lancaster County, Lebanon County, Lehigh County, Luzerne County, Lycoming County, Monroe County, Montgomery County, Montour County, Northampton County, Northumberland County, Pike County, Schuylkill County, Snyder County: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather | Unknown | 126000 |
| 2018 | 3 | 03/02/2018 12:00 PM | ongoing | ongoing | Baltimore Gas and Electric | RF | Maryland: | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather | 670 | 474019 |
| 2018 | 3 | 03/02/2018 12:00 PM | 03/05/2018 12:00 AM | 60 Hours, 0 Minutes | Exelon Corporation/PECO | RF | Pennsylvania: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 630000 |
| 2018 | 3 | 03/02/2018 1:51 PM | 03/04/2018 12:11 PM | 46 Hours, 20 Minutes | Metropolitan Edison Co | RF | Pennsylvania: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 233136 |
| 2018 | 3 | 03/02/2018 1:51 PM | 03/05/2018 1:18 PM | 71 Hours, 27 Minutes | ISO New England | NPCC | Connecticut: Massachusetts: Rhode Island: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 325000 |
| 2018 | 3 | 03/02/2018 3:10 PM | 03/06/2018 4:57 AM | 85 Hours, 47 Minutes | Jersey Central Power & Lt Co | RF | Ohio: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 249322 |
| 2018 | 3 | 03/02/2018 3:46 PM | 03/04/2018 7:46 PM | 52 Hours, 0 Minutes | Consolidated Edison Co-NY Inc | NPCC | New York: New York County, Westchester County: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 72353 |
| 2018 | 3 | 03/02/2018 5:00 PM | 03/06/2018 11:00 AM | 90 Hours, 0 Minutes | Delmarva Power & Light Company | RF | Delaware: Maryland: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 60000 |
| 2018 | 3 | 03/07/2018 12:00 PM | 03/07/2018 5:00 PM | 5 Hours, 0 Minutes | Exelon Corporation/PECO | RF | Pennsylvania: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 120000 |
| 2018 | 3 | 03/07/2018 4:10 PM | 03/10/2018 11:32 AM | 67 Hours, 22 Minutes | Jersey Central Power & Lt Co | RF | New Jersey: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 216800 |
| 2018 | 3 | 03/07/2018 5:15 PM | ongoing | ongoing | Public Service Electric & Gas | RF | New Jersey: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 50 | 58000 |
| 2018 | 3 | 03/07/2018 7:37 PM | 03/10/2018 4:35 PM | 68 Hours, 58 Minutes | ISO New England | NPCC | Connecticut: Massachusetts: Maine: New Hampshire: Rhode Island: Vermont: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 102000 |
| 2018 | 3 | 03/13/2018 8:50 AM | 03/14/2018 11:22 PM | 38 Hours, 32 Minutes | ISO New England | NPCC | Massachusetts: Rhode Island: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 123629 |
| 2018 | 3 | 03/19/2018 11:29 PM | 03/20/2018 3:37 AM | 4 Hours, 8 Minutes | Southern Company | SERC | Alabama: Georgia: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 261 | 78220 |
| 2018 | 3 | 03/20/2018 7:00 PM | 03/25/2018 6:30 AM | 107 Hours, 30 Minutes | Atlantic City Electric Co | RF | New Jersey: Atlantic County, Camden County, Cape May County, Gloucester County, Salem County, Cumberland County, Burlington County: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 80 | 124000 |
| 2018 | 3 | 03/24/2018 10:30 PM | 03/26/2018 8:00 PM | 45 Hours, 30 Minutes | American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054) | RF | Virginia: West Virginia: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 81227 |
| 2018 | 4 | 04/04/2018 4:42 PM | 04/07/2018 6:22 AM | 61 Hours, 40 Minutes | Niagara Mohawk Power Corporation (dba National Grid) | NPCC | New York: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 72896 |
| 2018 | 4 | 04/05/2018 12:50 AM | 04/05/2018 4:00 PM | 15 Hours, 10 Minutes | ISO New England | NPCC | Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 65932 |
| 2018 | 4 | 04/09/2018 11:16 AM | ongoing | ongoing | Peak Reliability | WECC | Utah: | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption | 300 | 250000 |
| 2018 | 4 | 04/09/2018 12:16 PM | 04/09/2018 1:52 PM | 1 Hours, 36 Minutes | Pacificorp | WECC | Utah: Salt Lake County: | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption | 806 | 57000 |
| 2018 | 4 | 04/14/2018 9:30 AM | 04/14/2018 10:00 AM | 0 Hours, 30 Minutes | Entergy Corp | SERC | Louisiana: Arkansas: Mississippi: Texas: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 56350 |
| 2018 | 4 | 04/15/2018 7:30 AM | 04/18/2018 7:30 AM | 72 Hours, 0 Minutes | DTE Energy | RF | Michigan: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 389591 |
| 2018 | 4 | 04/15/2018 5:14 PM | 04/15/2018 11:25 PM | 6 Hours, 11 Minutes | Duke Energy Carolinas | SERC | North Carolina: South Carolina: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 78100 |

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

**Table B.2 Major Disturbances and Unusual Occurrences, 2017**

| Year | Month | Event Date and Time | Restoration Date and Time | Duration | Utility/Power Pool | NERC Region | Area Affected | Type of Disturbance | Loss (megawatts) | Number of Customers Affected |
|---|---|---|---|---|---|---|---|---|---|---|
| 2017 | 1 | 01/08/2017 9:07 AM | 01/13/2017 2:30 PM | 125 Hours, 23 Minutes | Pacific Gas & Electric Co | WECC | California: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 106000 |
| 2017 | 1 | 01/08/2017 11:59 PM | . . | . Hours, . Minutes | California Department of Water Resources | WECC | California: | Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency | 0 | 0 |
| 2017 | 1 | 01/10/2017 7:30 PM | 01/13/2017 2:30 PM | 67 Hours, 0 Minutes | Pacific Gas & Electric Co | WECC | California: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 87000 |
| 2017 | 1 | 01/15/2017 6:35 AM | 01/15/2017 7:44 AM | 1 Hours, 9 Minutes | Los Angeles Department of Water & Power | WECC | California: Los Angeles County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Disruption | 176 | 126000 |
| 2017 | 1 | 01/15/2017 9:27 AM | 01/17/2017 1:58 AM | 40 Hours, 31 Minutes | Oklahoma Municipal Power Authority | SPP | Oklahoma: Harper County; | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather | 1 | 788 |
| 2017 | 1 | 01/18/2017 6:05 PM | 01/19/2017 12:05 AM | 6 Hours, 0 Minutes | Pacific Gas & Electric Co | WECC | California: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 75000 |
| 2017 | 1 | 01/22/2017 4:15 AM | 01/24/2017 2:00 PM | 57 Hours, 45 Minutes | Pacific Gas & Electric Co | WECC | California: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 97 | 64000 |
| 2017 | 1 | 01/22/2017 6:00 AM | . . | . Hours, . Minutes | California Department of Water Resources | WECC | California: | Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency | 0 | 0 |
| 2017 | 1 | 01/22/2017 4:00 PM | 01/23/2017 3:26 AM | 11 Hours, 26 Minutes | Southern Company | SERC | Alabama: Georgia: Mississippi: Florida: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 100 | 29965 |
| 2017 | 2 | 02/02/2017 1:04 AM | 02/02/2017 5:00 AM | 3 Hours, 56 Minutes | Public Service Company of New Mexico | WECC | New Mexico: Bernalillo County, Santa Fe County; | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption | 396 | 149223 |
| 2017 | 2 | 02/02/2017 1:11 AM | . . | . Hours, . Minutes | Peak Reliability | WECC | New Mexico: Bernalillo County; | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption | 400 | Unknown |
| 2017 | 2 | 02/13/2017 1:00 PM | 02/15/2017 1:35 PM | 48 Hours, 35 Minutes | North Carolina Mun Power Agny #1 | SERC | North Carolina: Union County; | Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems-Vandalism | 0 | 0 |
| 2017 | 2 | 02/17/2017 8:09 AM | 02/22/2017 7:30 PM | 131 Hours, 21 Minutes | Pacific Gas & Electric Co | WECC | California: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 254 | 169250 |
| 2017 | 2 | 02/17/2017 1:00 PM | 02/17/2017 1:15 PM | 0 Hours, 15 Minutes | Nevada Power Company d/b/a NV Energy | WECC | Nevada: Clark County; | Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems-Vandalism | 0 | 0 |
| 2017 | 2 | 02/17/2017 3:00 PM | 02/20/2017 11:00 AM | 68 Hours, 0 Minutes | LADWP | WECC | California: Los Angeles County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 111591 |
| 2017 | 3 | 03/01/2017 8:30 AM | 03/01/2017 2:00 PM | 5 Hours, 30 Minutes | Tennessee Valley Authority | SERC | Tennessee: Kentucky: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 58000 |
| 2017 | 3 | 03/01/2017 11:49 AM | 03/02/2017 9:30 PM | 33 Hours, 41 Minutes | American Electric Power | RFC | Kentucky: West Virginia: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 98575 |
| 2017 | 3 | 03/02/2017 12:20 PM | 03/02/2017 11:45 PM | 11 Hours, 25 Minutes | ISO New England | NPCC | Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 54316 |
| 2017 | 3 | 03/06/2017 8:00 PM | 03/07/2017 1:00 AM | 5 Hours, 0 Minutes | Kansas City Power & Light Co | SERC | Missouri: Jackson County, Platte County, Cass County, Lafayette County, Chariton County, Carroll County, Clay County, Johnson County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 97734 |
| 2017 | 3 | 03/08/2017 9:30 AM | 03/11/2017 5:00 AM | 67 Hours, 30 Minutes | Consumers Energy Co | RFC | Michigan: Jackson County, Calhoun County, Ingham County, Hillsdale County, Washtenaw County, Kent County, Ottawa County, Midland County, Saginaw County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 343000 |
| 2017 | 3 | 03/08/2017 11:30 AM | 03/08/2017 7:52 PM | 8 Hours, 22 Minutes | Cleveland Electric Illum Co | RFC | Ohio | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 71012 |
| 2017 | 3 | 03/08/2017 12:00 PM | 03/11/2017 11:31 AM | 71 Hours, 31 Minutes | Detroit Edison Co | RFC | Michigan | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 800000 |
| 2017 | 3 | 03/08/2017 1:30 PM | 03/08/2017 4:30 PM | 3 Hours, 0 Minutes | Niagara Mohawk Power Corporation (dba National Grid) | NPCC | New York | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption | Unknown | 106869 |
| 2017 | 3 | 03/08/2017 3:33 PM | . . | . Hours, . Minutes | Rochester Gas & Electric Corp | NPCC | New York | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 50000 |
| 2017 | 3 | 03/14/2017 12:32 PM | . . | . Hours, . Minutes | ISO New England | NPCC | Connecticut: Massachusetts: Rhode Island: New Hampshire: Maine: Vermont: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 69647 |
| 2017 | 3 | 03/21/2017 8:00 PM | 03/22/2017 9:15 AM | 13 Hours, 15 Minutes | Southern Company | SERC | Georgia | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 857 | 257000 |
| 2017 | 3 | 03/29/2017 3:30 AM | 03/31/2017 6:00 AM | 50 Hours, 30 Minutes | Oncor Electric Delivery Company LLC | TRE | Texas | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 175000 |

**Table B.2 Major Disturbances and Unusual Occurrences, 2017**

| Year | Month | Event Date and Time | Restoration Date and Time | Duration | Utility/Power Pool | NERC Region | Area Affected | Type of Disturbance | Loss (megawatts) | Number of Customers Affected |
|---|---|---|---|---|---|---|---|---|---|---|
| 2017 | 4 | 04/03/2017 11:00 AM | 04/03/2017 8:00 PM | 9 Hours, 0 Minutes | Southern Company | SERC | Alabama, Georgia | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 290 | 86330 |
| 2017 | 4 | 04/06/2017 7:00 PM | . . | . Hours, . Minutes | Pacific Gas & Electric Co | WECC | California | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 100000 |
| 2017 | 4 | 04/07/2017 4:33 AM | 04/07/2017 8:20 AM | 3 Hours, 47 Minutes | Pacificorp | WECC | Oregon | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 100 | 64852 |
| 2017 | 4 | 04/07/2017 8:15 AM | 04/08/2017 12:14 AM | 15 Hours, 59 Minutes | Portland General Electric Co | WECC | Oregon: Multnomah County, Washington County, Marion County, Clackamas County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 153867 |
| 2017 | 4 | 04/24/2017 5:32 AM | 04/24/2017 6:33 AM | 1 Hours, 1 Minutes | Duke Energy Carolinas | SERC | North Carolina: Mecklenburg County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 240 | 74698 |
| 2017 | 4 | 04/30/2017 1:00 AM | 04/30/2017 5:45 PM | 16 Hours, 45 Minutes | Entergy Corp | SERC | Arkansas, Louisiana, Mississippi | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 145174 |
| 2017 | 5 | 05/01/2017 11:14 PM | 05/01/2017 11:34 PM | 0 Hours, 20 Minutes | Pennsylvania Electric Co | RFC | Ohio | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 92390 |
| 2017 | 5 | 05/03/2017 6:58 PM | 05/03/2017 9:15 PM | 2 Hours, 17 Minutes | Southern California Edison Co | WECC | California | Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy | 572 | 0 |
| 2017 | 5 | 05/03/2017 7:05 PM | 05/03/2017 9:00 PM | 1 Hours, 55 Minutes | California ISO | WECC | California | Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy | 878 | Unknown |
| 2017 | 5 | 05/04/2017 5:00 AM | 05/04/2017 10:00 PM | 17 Hours, 0 Minutes | Southern Company | SERC | Alabama: Georgia | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 200 | 60377 |
| 2017 | 5 | 05/07/2017 5:15 AM | . . | . Hours, . Minutes | California Department of Water Resources | WECC | California: Fresno County | Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency | 0 | 0 |
| 2017 | 5 | 05/07/2017 11:30 PM | 05/08/2017 5:00 AM | 5 Hours, 30 Minutes | Owensboro Municipal Utilities | SERC | Kentucky: Daviess County | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy | 80 | 0 |
| 2017 | 5 | 05/19/2017 5:30 AM | . . | . Hours, . Minutes | Ameren Missouri | SERC | Missouri: St. Louis County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 70696 |
| 2017 | 5 | 05/27/2017 11:00 PM | . . | . Hours, . Minutes | Tennessee Valley Authority | SERC | Tennessee: Shelby County, Putnam County, Knox County, Davidson County, Hamilton County; Alabama: Madison County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 116000 |
| 2017 | 5 | 05/27/2017 11:10 PM | . . | . Hours, . Minutes | Memphis Light Gas and Water Division | SERC | Tennessee: Shelby County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 391 | 188000 |
| 2017 | 5 | 05/28/2017 7:30 PM | 05/29/2017 10:00 PM | 26 Hours, 30 Minutes | American Electric Power - (SPP Reliability Region) | TRE | Texas: Louisiana | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 103000 |
| 2017 | 5 | 05/28/2017 7:30 PM | 05/29/2017 10:00 PM | 26 Hours, 30 Minutes | Southwest Power Pool, Inc. | SERC | Louisiana: Texas | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 103000 |
| 2017 | 6 | 06/11/2017 2:39 PM | 06/11/2017 5:55 PM | 3 Hours, 16 Minutes | MISO | RFC | Michigan | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption | 63 | Unknown |
| 2017 | 7 | 07/07/2017 3:30 AM | 07/08/2017 7:30 PM | 40 Hours, 0 Minutes | Consumers Energy Co | RFC | Michigan: Kent County, Ottawa County, Muskegon County, Barry County, Oceana County, Eaton County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 160000 |
| 2017 | 7 | 07/08/2017 6:52 PM | 07/09/2017 8:00 AM | 13 Hours, 8 Minutes | Los Angeles Department of Water & Power | WECC | California: Los Angeles County | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption | 645 | 176867 |
| 2017 | 7 | 07/18/2017 4:23 PM | 07/18/2017 6:39 PM | 2 Hours, 16 Minutes | Western Area Power Administration - Western Area Lower Colorado | WECC | Nevada | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather | 0 | 0 |
| 2017 | 7 | 07/22/2017 10:00 PM | . . | . Hours, . Minutes | Southwest Power Pool, Inc. | SERC | Missouri | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 131000 |
| 2017 | 7 | 07/22/2017 10:00 PM | . . | . Hours, . Minutes | KCP&L Greater Missouri Operations Company | SERC | Missouri | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 115000 |
| 2017 | 7 | 07/22/2017 10:00 PM | 07/23/2017 12:00 PM | 14 Hours, 0 Minutes | Kansas City Power & Light Co | SERC | Missouri: Clay County, Jackson County, Lafayette County, Platte County; Kansas: Johnson County, Miami County, Wyandotte County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 112540 |
| 2017 | 7 | 07/23/2017 4:00 AM | . . | . Hours, . Minutes | Ameren Missouri | SERC | Missouri: Illinois | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 82000 |
| 2017 | 7 | 07/27/2017 6:00 AM | 07/27/2017 11:29 AM | 5 Hours, 29 Minutes | California Department of Water Resources | WECC | California: Butte County | Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency | 0 | 0 |

**Table B.2 Major Disturbances and Unusual Occurrences, 2017**

| Year | Month | Event Date and Time | Restoration Date and Time | Duration | Utility/Power Pool | NERC Region | Area Affected | Type of Disturbance | Loss (megawatts) | Number of Customers Affected |
|---|---|---|---|---|---|---|---|---|---|---|
| 2017 | 8 | 08/21/2017 11:41 PM | 08/22/2017 12:21 AM | 0 Hours, 40 Minutes | Pacific Gas & Electric Co | WECC | California: Plumas County | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations | 1 | 2 |
| 2017 | 8 | 08/25/2017 6:17 PM | 09/02/2017 5:00 PM | 190 Hours, 43 Minutes | American Electric Power - Texas | TRE | Texas: Matagorda County, Nueces County, Aransas County, Refugio County, San Patricio County, Calhoun County, Victoria County, Jackson County, Live Oak County, Jim Wells County, Bee County, Lavaca County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 220400 |
| 2017 | 8 | 08/25/2017 6:30 PM | 09/05/2017 5:00 PM | 262 Hours, 30 Minutes | ERCOT | TRE | Texas | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 330000 |
| 2017 | 8 | 08/26/2017 12:39 AM | 08/26/2017 12:52 AM | 0 Hours, 13 Minutes | ERCOT | TRE | Texas | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather | Unknown | Unknown |
| 2017 | 8 | 08/26/2017 6:26 AM | 09/08/2017 12:00 AM | 305 Hours, 34 Minutes | CenterPoint Energy | TRE | Texas | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 1076868 |
| 2017 | 8 | 08/27/2017 5:10 AM | 09/08/2017 12:00 AM | 282 Hours, 50 Minutes | CenterPoint Energy | TRE | Texas: Harris County | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 1076868 |
| 2017 | 8 | 08/30/2017 2:15 AM | . . | . Hours, . Minutes | Entergy Corp | TRE | Texas | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 78500 |
| 2017 | 8 | 08/31/2017 2:49 PM | 08/31/2017 5:14 PM | 2 Hours, 25 Minutes | Southern California Edison Co | WECC | California: Los Angeles County | Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather | 100 | 0 |
| 2017 | 9 | 09/01/2017 3:41 PM | 09/01/2017 8:30 PM | 4 Hours, 49 Minutes | Southern California Edison Co | WECC | California: | Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather | 337 | 0 |
| 2017 | 9 | 09/09/2017 12:00 AM | . . | . Hours, . Minutes | Tampa Electric Company | FRCC | Florida: Hillsborough County, Pasco County, Polk County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 1275 | 425000 |
| 2017 | 9 | 09/09/2017 12:30 PM | . . | . Hours, . Minutes | Florida Power & Light | FRCC | Florida: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 3500000 |
| 2017 | 9 | 09/10/2017 6:35 PM | 09/13/2017 5:00 PM | 70 Hours, 25 Minutes | Duke Energy Florida | FRCC | Florida: Alachua County, Bay County, Brevard County, Citrus County, Columbia County, Dixie County, Flagler County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Leon County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Po | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 4500 | 1000000 |
| 2017 | 9 | 09/10/2017 8:37 PM | . . | . Hours, . Minutes | Seminole Electric Cooperative Inc | FRCC | Florida: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 452555 |
| 2017 | 9 | 09/11/2017 12:30 AM | . . | . Hours, . Minutes | Lakeland Electric | FRCC | Florida: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 200 | 20000 |
| 2017 | 9 | 09/11/2017 2:27 AM | 09/15/2017 8:44 PM | 114 Hours, 17 Minutes | Southern Company | SERC | Georgia: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 132 | 39659 |
| 2017 | 9 | 09/11/2017 12:55 PM | 09/12/2017 8:00 AM | 19 Hours, 5 Minutes | South Carolina Electric and Gas | SERC | South Carolina: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 687 | 154832 |
| 2017 | 9 | 09/11/2017 5:30 PM | 09/13/2017 9:30 AM | 40 Hours, 0 Minutes | Duke Energy Carolinas | SERC | North Carolina: South Carolina: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 365 | 265729 |
| 2017 | 10 | 10/08/2017 3:00 AM | . . | . Hours, . Minutes | Southern Company | SERC | Alabama: Florida: Mississippi: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 306 | 91945 |
| 2017 | 10 | 10/09/2017 2:03 AM | 10/17/2017 1:30 PM | 203 Hours, 27 Minutes | Pacific Gas & Electric Co | WECC | California: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption | 177 | 117900 |
| 2017 | 10 | 10/09/2017 6:44 AM | . . | . Hours, . Minutes | Pacific Gas & Electric Co | WECC | California: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather | 100 | Unknown |
| 2017 | 10 | 10/12/2017 9:09 AM | . . | . Hours, . Minutes | Clarksdale Public Utilities | SERC | Mississippi: Coahoma County; | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations | Unknown | Unknown |
| 2017 | 10 | 10/16/2017 3:45 PM | 10/16/2017 4:09 PM | 0 Hours, 24 Minutes | Bonneville Power Administration | WECC | Washington: Montana: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption | 0 | 0 |

**Table B.2 Major Disturbances and Unusual Occurrences, 2017**

| Year | Month | Event Date and Time | Restoration Date and Time | Duration | Utility/Power Pool | NERC Region | Area Affected | Type of Disturbance | Loss (megawatts) | Number of Customers Affected |
|---|---|---|---|---|---|---|---|---|---|---|
| 2017 | 10 | 10/16/2017 3:55 PM | 10/16/2017 4:10 PM | 0 Hours, 15 Minutes | Peak Reliability | WECC | Washington: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption | 0 | 0 |
| 2017 | 10 | 10/20/2017 3:44 AM | 10/20/2017 3:45 AM | 0 Hours, 1 Minutes | Peak Reliability | WECC | Washington: | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather | 900 | Unknown |
| 2017 | 10 | 10/22/2017 8:45 AM | 10/22/2017 2:00 PM | 5 Hours, 15 Minutes | Entergy Corp | SERC | Louisiana: Mississippi: Arkansas: Texas: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | Unknown |
| 2017 | 10 | 10/23/2017 5:50 PM | 10/24/2017 6:17 PM | 24 Hours, 27 Minutes | Duke Energy Carolinas | SERC | North Carolina: South Carolina: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 440 | 115144 |
| 2017 | 10 | 10/26/2017 8:17 AM | 10/26/2017 8:41 AM | 0 Hours, 24 Minutes | Peak Reliability | WECC | Washington: Clark County; | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption | 0 | 0 |
| 2017 | 10 | 10/26/2017 8:17 AM | 10/26/2017 8:41 AM | 0 Hours, 24 Minutes | Bonneville Power Administration | WECC | Washington: Whatcom County; Montana: | Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption | 0 | 0 |
| 2017 | 10 | 10/29/2017 11:40 PM | 11/01/2017 6:08 PM | 66 Hours, 28 Minutes | ISO New England | NPCC | Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 310453 |
| 2017 | 11 | 11/01/2017 3:40 PM | 11/01/2017 10:00 PM | 6 Hours, 20 Minutes | Owensboro Municipal Utilities | SERC | Kentucky: Daviess County; | Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy | 0 | 0 |
| 2017 | 11 | 11/05/2017 7:35 PM | 11/05/2017 11:09 PM | 3 Hours, 34 Minutes | Ohio Edison Co | RF | Ohio: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 89216 |
| 2017 | 11 | 11/13/2017 2:00 AM | 11/15/2017 8:17 AM | 54 Hours, 17 Minutes | Puget Sound Energy | WECC | Washington: Island County, King County, Kitsap County, Thurston County, Skagit County, Whatcom County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 236100 |
| 2017 | 11 | 11/13/2017 4:33 PM | 11/16/2017 6:00 AM | 61 Hours, 27 Minutes | Seattle City Light, Sytem Control Center | WECC | Washington: King County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 85 | 68430 |
| 2017 | 12 | 12/04/2017 9:53 PM | . . | . Hours, . Minutes | Southern California Edison Co | WECC | California: | Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather/Transmission Interruption | 540 | 263000 |
| 2017 | 12 | 12/05/2017 6:30 AM | 12/06/2017 10:00 AM | 27 Hours, 30 Minutes | Consumers Energy Co | RF | Michigan: Oscoda County, Isabella County, Roscommon County, Ogemaw County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 117500 |
| 2017 | 12 | 12/07/2017 8:00 PM | 12/08/2017 5:00 PM | 21 Hours, 0 Minutes | CPS Energy | TRE | Texas: Bexar County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 88000 |
| 2017 | 12 | 12/08/2017 9:30 AM | 12/08/2017 10:30 PM | 13 Hours, 0 Minutes | Entergy Corp | SERC | Louisiana: Mississippi: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | Unknown | 79000 |
| 2017 | 12 | 12/08/2017 10:00 AM | 12/10/2017 8:50 PM | 58 Hours, 50 Minutes | Southern Company | SERC | Alabama: Georgia: Mississippi: | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather | 865 | 301872 |
| 2017 | 12 | 12/10/2017 1:25 AM | 12/10/2017 2:30 AM | 1 Hours, 5 Minutes | Southern California Edison Co | WECC | California: Ventura County, Santa Barbara County; | Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption | 110 | 51323 |
| 2017 | 12 | 12/13/2017 9:55 AM | 12/13/2017 2:45 PM | 4 Hours, 50 Minutes | Long Island Power Authority | NPCC | New York: Suffolk County; | Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency | 0 | 0 |
| 2017 | 12 | 12/29/2017 7:00 AM | . . | . Hours, . Minutes | Upstate New York Power Producers | NPCC | New York: Tompkins County; | Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency | 210 | Unknown |

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

# Appendix C

## Technical notes

This appendix describes how the U. S. Energy Information Administration (EIA) collects, estimates, and reports electric power data in the EPM.

## Data quality

The EPM is prepared by the Office of Electricity, Renewables & Uranium Statistics (ERUS), Energy Information Administration (EIA), U. S. Department of Energy. Quality statistics begin with the collection of the correct data. To assure this, ERUS performs routine reviews of the data collected and the forms on which it is collected. Additionally, to assure that the data are collected from the correct parties, ERUS routinely reviews the frames for each data collection.

Automatic, computerized verification of keyed input, review by subject matter specialists, and follow-up with nonrespondents assure quality statistics. To ensure the quality standards established by the EIA, formulas that use the past history of data values in the database have been designed and implemented to check data input for errors automatically. Data values that fall outside the ranges prescribed in the formulas are verified by telephoning respondents to resolve any discrepancies. All survey nonrespondents are identified and contacted.

## Reliability of data

There are two types of errors possible in an estimate based on a sample survey: sampling and non-sampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and non-sampling errors. Monthly sample survey data have both sampling and non-sampling error. Annual survey data are collected by a census and are not subject to sampling error.

Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. Note that for the cutoff sampling and model-based regression (ratio) estimation that we use, data 'missing' due to nonresponse, and data 'missing' due to being out-of-sample are treated in the same manner. Therefore missing data may be considered to result in sampling error, and variance estimates reflect all 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, in an effort to minimize their influence. See the Data Processing and Data System Editing section for each EIA form for an in-depth discussion of how the sampling and non-sampling errors are handled in each case.

Relative Standard Error: The relative standard error (RSE) statistic, usually given as a percentage, 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 the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These 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 approxi-mately a 68 percent chance that the true total or mean is within one RSE of the estimated total or mean. Note that reported RSEs are always estimates themselves, and are usually, as here, reported as percentages. As an example, suppose that a net generation from coal value is estimated to be 1,507 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 approxi-mately 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 may represent 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. Experiments were done to see if nonresponse should be treated differently, but it was decided to treat those cases the same as out-of-sample cases.

Relative Standard Error With Respect to a Superpopulation: The RSESP statistic is similar to the RSE (described above). Like the RSE, it is a statistic designed to estimate the variability of data and is usually given as a percentage. However, where the RSE is only designed to estimate the magnitude of sampling error, the RSESP more fully reflects the impact of variability from sampling and non-sampling errors. This is a more complete measure than RSE in that it can measure statistical variability in a complete census in addition to a sample21,24. In addition to being a measure of data variability, the RSESP can also be useful in comparing different models that are applied to the same set of data22. This capability is used to test different regression models for imputation and prediction. This testing may include considerations such as comparing different regressors, the comparative reliability of different monthly samples, or the use of different geographical strata or groupings for a given model. For testing purposes, ERUS typically uses recent historical data that have been finalized. Typically, time-series graphics showing two or more models or samples are generated showing the RSESP values over time. In selecting models, consideration is given to total survey error as well as any apparent differences in robustness.

Imputation: For monthly data, if the reported values appeared to be in error and the data issue could not be resolved with the respondent, or if the facility was a nonrespondent, a regression methodology is used to impute for the facility. The same procedure is used to estimate ("predict") data for facilities not in the monthly sample. The regression methodology relies on other data to make estimates for erroneous or missing responses.

Estimation for missing monthly data is accomplished by relating the observed data each month to one or more other data elements (regressors) for which we generally have an annual census. Each year, when new annual regressor data are available, recent monthly relationships are updated, causing slight revisions to estimated monthly results. These revisions are made as soon as the annual data are released.

The basic technique employed is described in the paper "Model-Based Sampling and Inference16," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). The basis for the current methodology involves a 'borrowing of strength' technique for small domains.

## Data revision procedure

ERUS has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

- Annual survey data are disseminated either as preliminary or final when first appearing in a data product. Data initially released as preliminary will be so noted in the data product. These data are typically released as final by the next dissemination of the same product; however, if final data are available at an earlier interval they may be released in another product.
- All monthly survey data are first disseminated as preliminary. These data are revised after the prior year's data are finalized and are disseminated as revised preliminary. No revisions are made to the published data before this or subsequent to these data being finalized unless significant errors are discovered.
- After data are disseminated as final, further revisions will be considered if they 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.
- The magnitudes of changes due to revisions experienced in the past will be included periodically in the data products, so that the reader can assess the accuracy of the data.

## Data sources for Electric Power Monthly

Data published in the EPM are compiled from the following sources:

- Form EIA-923, "Power Plant Operations Report,"
- Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report,"
- Form EIA 860, "Annual Electric Generator Report,"
- Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and

- Form EIA 861, "Annual Electric Power Industry Report."

For access to these forms and their instructions, please see:
http://www.eia.gov/cneaf/electricity/page/forms.html.

In addition to the above-named forms, the historical data published in the EPM for periods prior to 2008 are compiled from the following sources:

- FERC Form 423, "Monthly Report of 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-860A, "Annual Electric Generator Report–Utility,"
- Form EIA-860B, "Annual Electric Generator Report–Nonutility,"
- Form EIA-900, "Monthly Nonutility Power Report,"
- Form EIA-906, "Power Plant Report," and
- Form EIA-920, "Combined Heat and Power Plant Report."

See Appendix A of the historical Electric Power Annual reports to find descriptions of forms that are no longer in use. The publications can be found from the top of the current EPA under previous issues: http://www.eia.gov/electricity/annual.

**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 difference:** The following formula is used to calculate percent differences:

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

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

**Meanings of symbols appearing in tables**: The following symbols have the meaning described below:

P Indicates a preliminary value.

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).

## 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 500 of the largest electric utilities (primarily investor owned and publicly owned) as well as a census of energy service providers with sales to ultimate consumers in deregulated States. Form EIA-861, 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.

**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 price of electricity to ultimate consumers 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 energy providers to ultimate consumers 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 EPM April 2001, p.1.)

With the October 2004 issue of the 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 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.

Beginning with 2008 data and some annual 2007 data, the Form EIA-923 replaced Forms EIA-906, EIA-920, EIA-423, and FERC 423. In addition, several sections of the discontinued Form EIA-767 have been included in either the Form EIA-860 or Form EIA-923. See the following link for a detailed explanation. http://www.eia.gov/cneaf/electricity/2008forms/consolidate.html

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

**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 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 sales of electricity to ultimate customers and revenue from 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 the price of electricity to ultimate consumers at the State level. The estimates are accumulated separately to produce the Census division and U.S. level estimates[1].

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 price of electricity to ultimate consumers 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 price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers 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 price of electricity to ultimate consumers 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, 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, "Annual Electric Generator Report," 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 generator level. Certain power plant environmental-related data are collected at the boiler level. These data include environmental equipment design parameters, boiler air emission standards, and boiler emission controls The Form EIA-860 is made available in January to collect data related to the previous year.

**Instrument and design history**: The Form EIA-860 was originally implemented in January 1985 to collect data 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 EIA-411. In January 1999, the Form EIA-860 was renamed the Form EIA-860A, "Annual Electric Generator Report – Utility" and was implemented to collect data from electric utilities 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.

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.

The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

**Estimation of form eia-860 data**: EIA received forms from all 18,151 existing generators in the 2010 Form EIA-860 frame, so no imputation was required.

**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 |
| Hydroelectric Pumped Storage | 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-860M

The Form EIA 860M, "Monthly Update to the Annual Electric Generator Report," is a mandatory monthly survey that collects data on the status of proposed new generators or changes to existing generators for plants that report on Form EIA-860.

The Form EIA-860M has a rolling frame based upon planned changes to capacity as reported on the previous Form EIA-860. Respondents are added to the frame 12 months prior to the expected effective date for all new units or expected retirement date for existing units. For all other types of capacity changes (including retirements, uprates, derates, repowering, or other modifications), respondents are added 1 month prior to the anticipated modification change date. Respondents are removed from the frame at the completion of the changes or if the change date is moved back so that the plant no longer qualifies to be in the frame. Typically, 150 to 200 utilities per month are required to report for 175 to 250 plants (including 250 to 400 generating units) on this form. The unit characteristics of interest are changes to the previously reported planned operating month and year, prime mover type, capacity, and energy sources.

**Instrument and design history:** The data collected on Form EIA-860M was originally collected via phone calls at the end of each month. During 2005, the Form EIA-860M was introduced as a mandatory form using the Internet Data Collection (IDC) system.

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

**Data processing and data system editing:** Approximately 150 to 200 utilities are requested to provide data each month on the Form EIA 860M. These data are collected via the IDC system and automatically checked for certain errors. Most of the quality assurance issues are addressed by the respondents as part of the automatic edit check process. In some cases, respondents are subsequently contacted about their explanatory overrides to the edit checks.

**Sensitive data:** Data collected on the Form EIA-860M are not considered to be sensitive.

## Form EIA-861

The Form EIA 861, "Annual Electric Power Industry Report," is a mandatory census of electric power industry participants in the United States. The survey is used to collect information on power sales and revenue data from approximately 3,300 respondents. About 3,200 are electric utilities and the remainder are nontraditional utilities such as energy service providers or the unregulated subsidiaries of electric utilities and power marketers.

**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.

**Data processing and data system editing:** The Form EIA 861 is made available to the respondents in January of each year to collect data as of the end of the preceding calendar year. The data are edited when entered into the interactive on line system. Internal edit checks are per-formed to verify that current data total across and between schedules, and are comparable to data reported the previous year. Edit checks are also performed to compare data reported on the Form EIA 861 and similar data reported on the Form EIA 826. Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

Data for the Form EIA 861 are collected at the owner level from all electric utilities including energy service providers in the United States, its territories, and Puerto Rico. Form EIA 861 data in this report are for the United States only.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers 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 State and Federal income taxes and other taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents 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 to the electric power industry participant for providing electrical service.

**Sensitive data:** Data collected on the Form EIA-861 are not considered to be sensitive.

## Form EIA-923

Form EIA-923, "Power Plant Operations Report," is a monthly collection of data on receipts and cost of fossil fuels, fuel stocks, generation, consumption of fuel for generation, and environmental data (e.g. emission controls and cooling systems). Data are collected from a monthly sample of approximately 1,900 plants, which includes a census of nuclear and pumped-storage hydroelectric plants. In addition approximately 4,050 plants, representing all other generators 1 MW or greater, are collected annually. In addition to electric power generating plants, respondents include fuel storage terminals without

generating capacity that receive shipments of fossil fuels 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. 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 all other plants, consumption is reported at the prime-mover level. For these plants, generation is reported either at the prime-mover level or, for noncombustible sources (e.g. wind, nuclear), at the prime-mover and energy source level. The source and disposition of electricity is reported annually for nonutilities at the plant level as is revenue from sales for resale. Environmental data are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts.

**Instrument and design history:**

*Receipts and cost and quality of fossil fuels*
On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate- capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. 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 above) 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 non-regulated power producers. Its design closely followed that of the FERC Form 423.

Both the Form EIA-423 and FERC Form 423 were superseded by Schedule 2 of the Form EIA-923 in January of 2008. At the time, the Form EIA-923 maintained the 50-megawatt threshold for these data. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts.

Not all data are collected monthly on the Form EIA-923. Beginning with 2008 data, a sample of the respondents report monthly, with the remainder reporting annually. Until January 2013, monthly fuel receipts values for the annual surveys were imputed via regression. Prior to 2008, Schedule 2 annual data were not collected or imputed.

*Generation, consumption, and stocks*

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 Federal Power Commission (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 entities14. In 1998, the form 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 data15. In 2000, the form was modified to include the production of useful thermal output data.

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 combined heat and power plants; all other plants that generate electricity continue 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.

Forms EIA-906 and EIA-920 were superseded by survey Form EIA-923 beginning in January 2008 with the collection of annual 2007 data and monthly 2008 data.

**Data processing and data system editing**: Respondents are encouraged to enter data directly into a computerized database via the Internet Data Collection (IDC) system. A variety of automated quality control mechanisms are run during this process, such as range checks and comparisons with historical data. These edit checks are performed as the data are provided, and many problems that are encountered are resolved during the reporting process. Those plants that are unable to use the electronic reporting medium provide the data in hard copy, typically via fax. These data are manually entered into the computerized database. The data are subjected to the same edits as those that are electronically submitted.

If the reported data appear to be in error and the data issue cannot be resolved by follow up contact with the respondent, or if a facility is a nonrespondent, a regression methodology is used to impute for the facility. Beginning in January 2013, imputation is not performed for fuel receipts data reported on Schedule 2.

**Imputation:** For select survey data elements collected monthly, regression prediction, or imputation, is done for 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). Only approximately 0.02 percent of the national total generation for 2010 is imputed, although this will vary by State and energy source.

When gross generation is reported and net generation is not available, net generation is estimated by using a fixed ratio to gross generation by prime-mover type and installed environmental 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 are 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. These plants include independent power producers, electric utilities, and commercial and industrial combined heat and power producers. All plants with a total fossil-fueled nameplate capacity of 50 megawatts or more (excluding storage terminals, which do not produce electricity) were required to report receipts of fossil fuels. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. 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.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton. For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic foot.

**Power production, fuel stocks, and fuel consumption data:** 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 Federal Power Commission (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 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 the production of useful thermal output data.

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 combined heat and power plants; all other plants that generate electricity continue 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 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906.

In January 2008, Form EIA-923 superseded both the Forms EIA-906 and EIA-920 for the collection of these data.

**Methodology to estimate biogenic and non-biogenic municipal solid waste[2]:** 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 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.

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 Tables 1 and 2, below). [3]

These values are used to allocate net generation published in the Electric Power Monthly generation 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Biogenic | 57 | 56 | 55 | 55 | 56 | 57 | 55 | 54 | 51 | 50 |
| Non-biogenic | 43 | 44 | 45 | 45 | 44 | 43 | 46 | 46 | 49 | 50 |

**Table 2. Tonnage consumption for biogenic and non-biogenic municipal solid waste (percent)**

| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|---|---|---|
| Biogenic | 77 | 77 | 76 | 76 | 75 | 67 | 65 | 65 | 64 | 64 |
| Non-biogenic | 23 | 23 | 24 | 24 | 25 | 34 | 35 | 35 | 36 | 36 |

**Useful thermal output:** With the implementation of the Form EIA-923, "Power Plant Operations Report," in 2008, combined heat and power (CHP) plants are required to report total fuel consumed and electric power generation. Beginning with the January 2008 data, EIA will estimate the allocation of the total fuel consumed at CHP plants between electric power generation and useful thermal output.

First, an efficiency factor is determined for each plant and prime mover type. Based on data for electric power generation and useful thermal output 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 useful thermal output (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 multiplied 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.

**Conversion of petroleum coke to liquid petroleum:** The quantity conversion is 5 barrels (of 42 U.S. gallons each) per short ton (2,000 pounds).

**Conversion of propane gas to liquid petroleum:** The quantity conversion is 1.53 Mcf (thousand cubic feet) per barrel (or 42 U.S. gallons each).

**Conversion of synthesis gas from coal to coal:** The quantity conversion is 98 Mcf (thousand cubic feet) per short ton (2,000 pounds).

**Conversion of synthesis gas from petroleum coke to petroleum coke:** The quantity conversion is 107.42 Mcf (thousand cubic feet) per short ton (2,000 pounds).

**Issues within historical data series:**

*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 due 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. In January 2013, this estimation procedure was dropped.

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 the FERC 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. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Starting with the revised data for 2008, tables for total receipts begin to reflect estimation for all plants with capacity over 1 megawatt, to be consistent with other electric power data. Previous receipts data published have been 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 EPM (i.e., 1 megawatt and above), with associated relative standard errors, provides a more complete assessment of the market.

*Generation and consumption*
Beginning in 2008, a new method of allocating fuel consumption between electric power generation and useful thermal output (UTO) was implemented. This new methodology evenly distributes a combined heat and power (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 decreased while the fuel for UTO is increased 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:** Most of the data collected on the Form EIA-923 are not considered business sensitive. However, the cost of fuel delivered to nonutilities, commodity cost of fossil fuels, and reported fuel stocks at the end of the reporting period 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)).

## 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:

$$CapacityFactor = \left( \frac{\sum_{x,m} Generation_{x,m}}{\sum_{x,m} Capacity_{x,m} * AvailableTime_{x,m}} \right)$$

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.

## NERC classification

The Florida Reliability Coordinating Council (FRCC) separated itself from the Southeastern Electric Reliability Council (SERC) in the mid-1990s. In 1998, several utilities realigned from Southwest Power Pool (SPP) to SERC. Name changes altered both the Mid-Continent Area Power Pool (MAPP) to the Midwest Reliability Organization (MRO) and the Western Systems Coordinating Council (WSCC) to the Western Energy 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. Both the States of Alaska and Hawaii are not contiguous with the other continental States and have no electrical interconnections. At the close of calendar year 2005, the following reliability regional councils were dissolved: East Central Area Reliability Coordinating 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 from a delegation of authority from NERC to handle the regional responsibilities of the Electric Reliability Council of Texas (ERCOT). The revised delegation agreements covering all the regions were approved by the Federal Energy Regulatory Commission on March 21, 2008. Reliability Councils that are unchanged include: Florida Reliability Coordinating Council (FRCC), Northeast Power Coordinating Council (NPCC), and the Western Energy Coordinating Council (WECC

The new NERC Regional Council 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).

## Business classification

Nonutility power producers consist of corporations, persons, agencies, authorities, or other legal entities that own or operate facilities for electric generation but are not electric utilities. This includes qualifying cogenerators, small power producer, and independent power producers. Furthermore, 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 manufacturing, agricultural, forestry, transportation, finance, service and administrative industries, based on the Office of Management and Budget's Standard Industrial Classification (SIC) Manual. In 1997, the SIC Manual name was changed to North American Industry Classification System (NAICS). The following is a list of the main classifications and the category of primary business activity within each classification.

**Agriculture, Forestry, and Fishing**

111 Agriculture production-crops
112 Agriculture production, livestock and animal specialties
113 Forestry
114 Fishing, hunting, and trapping
115 Agricultural services

**Mining**

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

**Construction**

23

**Manufacturing**

311 Food and kindred products
3122 Tobacco products
314 Textile and mill products
315 Apparel and other finished products made from fabrics and similar materials
316 Leather and leather products
321 Lumber and wood products, except furniture
322 Paper and allied products (other than 322122 or 32213)
322122 Paper mills, except building paper
32213 Paperboard mills
323 Printing and publishing
324 Petroleum refining and related industries (other than 32411)
32411 Petroleum refining
325 Chemicals and allied products (other than 325188, 325211, 32512, or 325311)
32512 Industrial organic chemicals
325188 Industrial Inorganic Chemicals
325211 Plastics materials and resins
325311 Nitrogenous fertilizers
326 Rubber and miscellaneous plastic products
327 Stone, clay, glass, and concrete products (other than 32731)
32731 Cement, hydraulic
331 Primary metal industries (other than 331111 or 331312)
331111 Blast furnaces and steel mills
331312 Primary aluminum
332 Fabricated metal products, except machinery and transportation equipment
333 Industrial and commercial equipment and components except computer equipment
3345 Measuring, analyzing, and controlling instruments, photographic, medical, and optical goods, watches and clocks
335 Electronic and other electrical equipment and components except computer equipment
336 Transportation equipment
337 Furniture and fixtures
339 Miscellaneous manufacturing industries

**Transportation and Public Utilities**

22 Electric, gas, and sanitary services
2212 Natural gas transmission
2213 Water supply
22131 Irrigation systems
22132 Sewerage systems
481 Transportation by air
482 Railroad transportation
483 Water transportation
484 Motor freight transportation and warehousing
485 Local and suburban transit and interurban highway passenger transport
486 Pipelines, except natural gas
487 Transportation services
491 United States Postal Service
513 Communications
562212 Refuse systems

**Wholesale Trade**

421 to 422

**Retail Trade**

441 to 454

**Finance, Insurance, and Real Estate**

521 to 533

**Services**

512 Motion pictures
514 Business services
514199 Miscellaneous services
541 Legal services
561 Engineering, accounting, research, management, and related services
611 Education services
622 Health services
624 Social services
712 Museums, art galleries, and botanical and zoological gardens
713 Amusement and recreation services
721 Hotels
811 Miscellaneous repair services
8111 Automotive repair, services, and parking
812 Personal services
813 Membership organizations
814 Private households

**Public Administration**

92

## Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

Monthly generation from small scale PV solar resources is an estimation of the generation produced from PV solar resources and not the results of a data collection effort for generation directly, with the exception of "Third Party Owned" or (TPO) solar installations which has direct data collection. TPO data however is not comprehensive. TPOs do not operate in every state, TPO collected data is not a large portion of the estimated amount, and the data has been collected for limited period of time. The generation estimate is based on data collected for PV solar capacity.

Capacity of PV solar resources is collected directly from respondents. These data are collected on several EIA forms and from several types of respondents. Monthly data for net-metered PV solar capacity is reported on the Form EIA-826. Form EIA-826 is a cutoff sample drawn from the annual survey Form EIA-861 which collects this data from all respondents. Using data from both of these surveys we have a regression model to impute for the non-sampled monthly capacity.

The survey instruments collect solar net metering capacity from reporting utilities by state and customer class. There are four customer classes: residential, commercial, industrial and transportation. However, the estimation process included only the residential, commercial and industrial customers.[1] Data for these customer classes were further classified by U.S. Census Regions, to ensure adequate number of customer observations in for each estimation group.

**Estimation Model:** The total PV capacity reported by utilities in the annual EIA-861 survey is the single primary input (regressor) to the monthly estimation of PV capacity by state. The model tested for each Census Region was of the form:

$$y_{i_{2015,m}} = \beta_1 x_{i_{2013}} + w_i^{-1/2} e_i \text{, where}$$

$x_{i_{2013}}$ is the i[th] utility's 2013 (or the last published year) solar PV capacity

$y_{i_{2015,m}}$ is the i[th] utility's month m, 2015 (or the current year) reported solar PV capacity

$w_i$ is the weight factor, which is the inverse of $x_{i_{2013}}$

$\beta_1$ is effectively the growth rate of reported month m solar PV capacity

$e_i$ is the error term

The model checks for outliers and removes them from the regression equation inputs. The model calculates RSEs by sector, state, census region, and US total. Once we have imputed for all of the

monthly net-metered PV solar capacity we add to total net metered capacity, the PV solar capacity collected on the Form EIA-861 for distributed and dispersed resources that are not net metered.

We use a second model to estimate the generation using this capacity as an input. The original methodology was developed for the "Annual Energy Outlook" based on our "NEMS" modelled projections several years ago. The original method underwent a calibration project designed to develop PV production levels for the NEMS projections consistent with simulations of a National Renewable Energy Laboratory model called PVWatts, which is itself embedded in PC software under the umbrella of the NREL's System Advisor Model (SAM).

The PVWatts simulations require, panel azimuth orientations and tilts, something that the NEMS projections do not include. Call the combinations of azimuths and tilts "orientations." The orientation and solar insolation (specific to a location) have a direct effect on the PV production level. The calibration project selected the 100 largest population Metropolitan Statistical Areas (MSAs) and relied on weights derived from orientation data from California Solar Initiative dataset to develop typical outputs for each of the 100 MSAs. It then was expanded from an annual estimate to a monthly estimate. A further description of this model is located here. A listing of the MSAs are included in Appendix 1.

Using Form EIA-861 data for service territories, which lists the counties that each electric distribution company (EDC) provides service, and NREL solar insolation data by county a simple average of insolation values by EDC is calculated.

Using the estimation model, we produce by utility, by state and by sector an estimate of generation. All the utilities'' capacity and generation estimates are summed by state and sector and a KWh/KW rate by state and sector is calculated.

Capacity from the Form EIA-860 that is net metered is subtracted from the total capacity by state and sector as well as the capacity reported on the EIA-826 from TPOs, resulting in a new "net" capacity amount. This capacity amount is multiplied by the KWh/KW rate to produce the non-TPO generation estimate and then it is added to the TPO reported sales to ultimate customers from the EIA-826 to obtain a final estimate for generation and a blended KWh/KW rate is calculated. The estimate for generation is aggregated by US census regions and US totals. The RSEs for capacity are checked for level of error and if they pass, the summary data by state, US census region and US total are reported in the EPM.

Appendix 2 contains a flow diagram of the data inputs, data quality control checks and data analysis required to perform this estimation.

# Appendix 1- MSAs

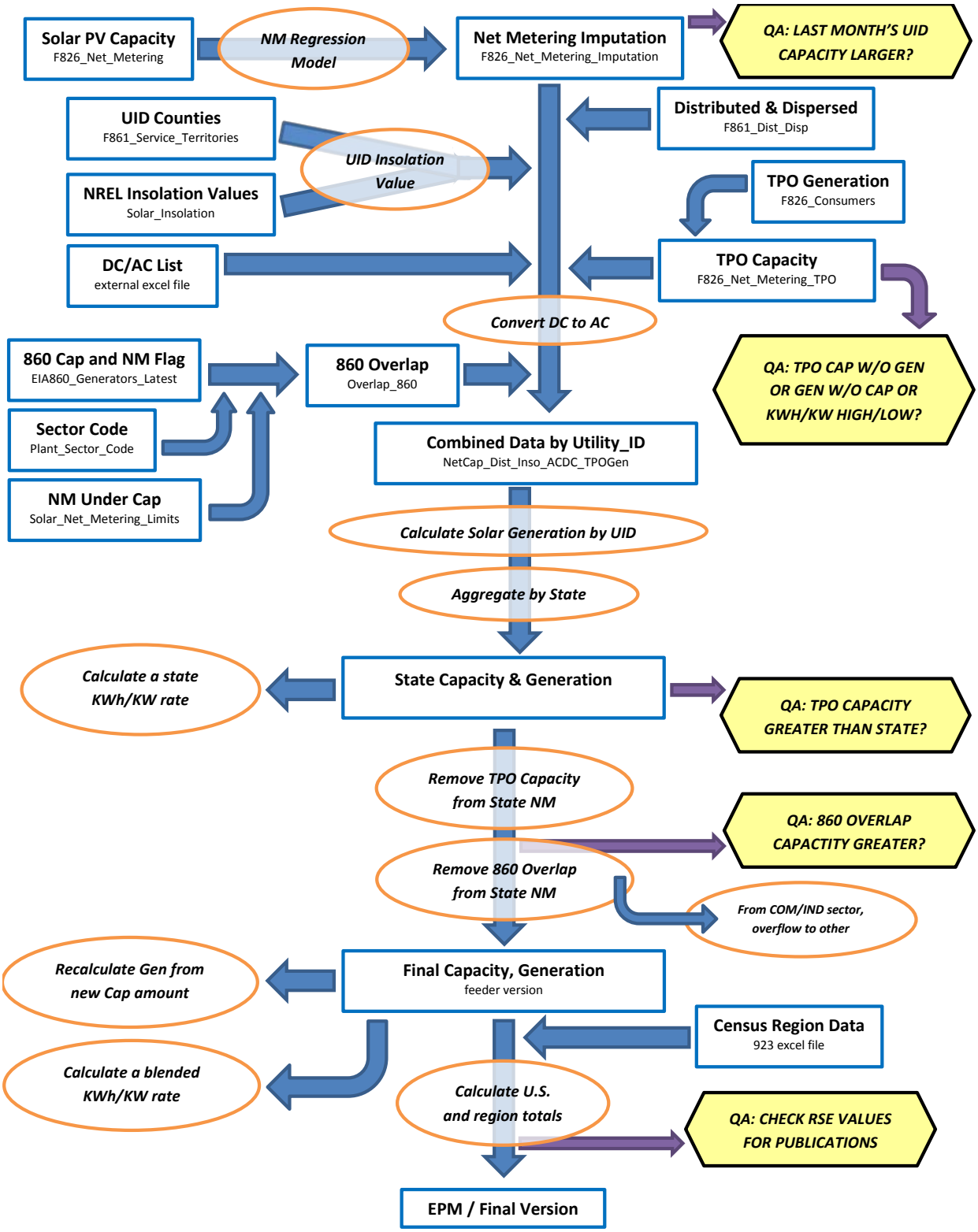
## TMY3 (1991-2005) Weather Stations by MSA

| Site | Weather Location | MSA |
|---|---|---|
| 1 | USA NY New York Central Park Obs. | New York-Newark-Jersey City, NY-NJ-PA MSA |
| 2 | USA CA Los Angeles Intl Airport | Los Angeles-Long Beach-Anaheim, CA MSA |
| 3 | USA IL Chicago Midway Airport | Chicago-Naperville-Elgin, IL-IN-WI MSA |
| 4 | USA TX Dallas-fort Worth Intl Airport | Dallas-Fort Worth-Arlington, TX MSA |
| 5 | USA TX Houston Bush Intercontinental | Houston-The Woodlands-Sugar Land, TX MSA |
| 6 | USA PA Philadelphia Int'l Airport | Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA |
| 7 | USA VA Washington Dc Reagan Airport | Washington-Arlington-Alexandria, DC-VA-MD-WV MSA |
| 8 | USA FL Miami Intl Airport | Miami-Fort Lauderdale-West Palm Beach, FL MSA |
| 9 | USA GA Atlanta Hartsfield Intl Airport | Atlanta-Sandy Springs-Roswell, GA MSA |
| 10 | USA MA Boston Logan Int'l Airport | Boston-Cambridge-Newton, MA-NH MSA |
| 11 | USA CA San Francisco Intl Airport | San Francisco–Oakland–Hayward, CA MSA |
| 12 | USA AZ Phoenix Sky Harbor Intl Airport | Phoenix-Mesa-Scottsdale, AZ MSA |
| 13 | USA CA Riverside Municipal Airport | Riverside-San Bernardino-Ontario, CA MSA |
| 14 | USA MI Detroit City Airport | Detroit-Warren-Dearborn, MI MSA |
| 15 | USA WA Seattle Seattle-Tacoma Intl Airport | Seattle-Tacoma-Bellevue, WA MSA |
| 16 | USA MN Minneapolis-St. Paul Int'l Arp | Minneapolis-St. Paul-Bloomington, MN-WI MSA |
| 17 | USA CA San Diego Lindbergh Field | San Diego-Carlsbad, CA MSA |
| 18 | USA FL Tampa Int'l Airport | Tampa-St. Petersburg-Clearwater, FL MSA |
| 19 | USA MO St Louis Lambert Int'l Airport | St. Louis, MO-IL MSA |
| 20 | USA MD Baltimore-Washington Int'l Airport | Baltimore-Columbia-Towson, MD MSA |
| 21 | USA CO Denver Centennial [Golden - NREL] | Denver-Aurora-Lakewood, CO MSA |
| 22 | USA PA Pittsburgh Allegheny Co Airport | Pittsburgh, PA MSA |
| 23 | USA NC Charlotte Douglas Intl Airport | Charlotte-Concord-Gastonia, NC-SC MSA |
| 24 | USA OR Portland Hillsboro | Portland-Vancouver-Hillsboro, OR-WA MSA |
| 25 | USA TX San Antonio Intl Airport | San Antonio-New Braunfels, TX MSA |
| 26 | USA FL Orlando Intl Airport | Orlando-Kissimmee-Sanford, FL MSA |
| 27 | USA CA Sacramento Executive Airport | Sacramento–Roseville–Arden-Arcade, CA MSA |
| 28 | USA OH Cincinnati Municipal Airport | Cincinnati, OH-KY-IN MSA |
| 29 | USA OH Cleveland Hopkins Intl Airport | Cleveland-Elyria, OH MSA |
| 30 | USA MO Kansas City Int'l Airport | Kansas City, MO-KS MSA |
| 31 | USA NV Las Vegas McCarran Intl Airport | Las Vegas-Henderson-Paradise, NV MSA |
| 32 | USA OH Columbus Port Columbus Intl A | Columbus, OH MSA |
| 33 | USA IN Indianapolis Intl Airport | Indianapolis-Carmel-Anderson, IN MSA |
| 34 | USA CA San Jose Intl Airport | San Jose-Sunnyvale-Santa Clara, CA MSA |
| 35 | USA TX Austin Mueller Municipal Airport | Austin-Round Rock, TX MSA |
| 36 | USA TN Nashville Int'l Airport | Nashville-Davidson–Murfreesboro–Franklin, TN MSA |

| | | |
|---|---|---|
| 37 | USA VA Norfolk Int'l Airport | Virginia Beach-Norfolk-Newport News, VA-NC MSA |
| 38 | USA RI Providence T F Green State | Providence-Warwick, RI-MA MSA |
| 39 | USA WI Milwaukee Mitchell Intl Airport | Milwaukee-Waukesha-West Allis, WI MSA |
| 40 | USA FL Jacksonville Craig | Jacksonville, FL MSA |
| 41 | USA TN Memphis Int'l Airport | Memphis, TN-MS-AR MSA |
| 42 | USA OK Oklahoma City Will Rogers | Oklahoma City, OK MSA |
| 43 | USA KY Louisville Bowman Field | Louisville/Jefferson County, KY-IN MSA |
| 44 | USA VA Richmond Int'l Airport | Richmond, VA MSA |
| 45 | USA LA New Orleans Alvin Callender | New Orleans-Metairie, LA MSA |
| 46 | USA CT Hartford Bradley Intl Airport | Hartford-West Hartford-East Hartford, CT MSA |
| 47 | USA NC Raleigh Durham Int'l | Raleigh, NC MSA |
| 48 | USA UT Salt Lake City Int'l Airport | Salt Lake City, UT MSA |
| 49 | USA AL Birmingham Municipal Airport | Birmingham-Hoover, AL MSA |
| 50 | USA NY Buffalo Niagara Intl Airport | Buffalo-Cheektowaga-Niagara Falls, NY MSA |
| 51 | USA NY Rochester Greater Rochester | Rochester, NY MSA |
| 52 | USA MI Grand Rapids Kent County Int'l Airport | Grand Rapids-Wyoming, MI MSA |
| 53 | USA AZ Tucson Int'l Airport | Tucson, AZ MSA |
| 54 | USA HI Honolulu Intl Airport | Urban Honolulu, HI MSA |
| 55 | USA OK Tulsa Int'l Airport | Tulsa, OK MSA |
| 56 | USA CA Fresno Yosemite Intl Airport | Fresno, CA MSA |
| 57 | USA CT Bridgeport Sikorsky Memorial | Bridgeport-Stamford-Norwalk, CT MSA |
| 58 | USA MA Worchester Regional Airport | Worcester, MA-CT MSA |
| 59 | USA NM Albuquerque Intl Airport | Albuquerque, NM MSA |
| 60 | USA NE Omaha Eppley Airfield | Omaha-Council Bluffs, NE-IA MSA |
| 61 | USA NY Albany County Airport | Albany-Schenectady-Troy, NY MSA |
| 62 | USA CA Bakersfield Meadows Field | Bakersfield, CA MSA |
| 63 | USA CT New Haven Tweed Airport | New Haven-Milford, CT MSA |
| 64 | USA TN Knoxville McGhee Tyson Airport | Knoxville, TN MSA |
| 65 | USA SC Greenville Downtown Airport | Greenville-Anderson-Mauldin, SC MSA |
| 66 | USA CA Oxnard Airport | Oxnard-Thousand Oaks-Ventura, CA MSA |
| 67 | USA TX El Paso Int'l Airport | El Paso, TX MSA |
| 68 | USA PA Allentown Lehigh Valley Intl | Allentown-Bethlehem-Easton, PA-NJ MSA |
| 69 | USA LA Baton Rouge Ryan Airport | Baton Rouge, LA MSA |
| 70 | USA TX McCallen Miller Intl Airport | McAllen-Edinburg-Mission, TX MSA |
| 71 | USA OH Dayton Int'l Airport | Dayton, OH MSA |
| 72 | USA SC Columbia Metro Airport | Columbia, SC MSA |
| 73 | USA NC Greensboro Piedmont Triad Int'l Airport | Greensboro-High Point, NC MSA |
| 74 | USA FL Sarasota Bradenton | North Port-Sarasota-Bradenton, FL MSA |
| 75 | USA AR Little Rock Adams Field | Little Rock-North Little Rock-Conway, AR MSA |
| 76 | USA SC Charleston Intl Airport | Charleston-North Charleston, SC MSA |
| 77 | USA OH Akron Akron-canton Reg. Airport | Akron, OH MSA |
| 78 | USA CA Stockton Metropolitan Airport | Stockton-Lodi, CA MSA |

| | | |
|---|---|---|
| 79 | USA CO Colorado Springs Muni Airport | Colorado Springs, CO MSA |
| 80 | USA NY Syracuse Hancock Int'l Airport | Syracuse, NY MSA |
| 81 | USA FL Fort Myers Page Field | Cape Coral-Fort Myers, FL MSA |
| 82 | USA NC Winston-Salem Reynolds Airport | Winston-Salem, NC MSA |
| 83 | USA ID Boise Air Terminal | Boise City, ID MSA |
| 84 | USA KS Wichita Mid-continent Airport | Wichita, KS MSA |
| 85 | USA WI Madison Dane Co Regional Airport | Madison, WI MSA |
| 86 | USA MA Worchester Regional Airport | Springfield, MA MSA |
| 87 | USA FL Lakeland Linder Regional Airport | Lakeland-Winter Haven, FL MSA |
| 88 | USA UT Ogden Hinkley Airport | Ogden-Clearfield, UT MSA |
| 89 | USA OH Toledo Express Airport | Toledo, OH MSA |
| 90 | USA FL Daytona Beach Intl Airport | Deltona-Daytona Beach-Ormond Beach, FL MSA |
| 91 | USA IA Des Moines Intl Airport | Des Moines-West Des Moines, IA MSA |
| 92 | USA GA Augusta Bush Field | Augusta-Richmond County, GA-SC MSA |
| 93 | USA MS Jackson Int’l Airport | Jackson, MS MSA |
| 94 | USA UT Provo Muni | Provo-Orem, UT MSA |
| 95 | USA PA Wilkes-Barre Scranton Intl Airport | Scranton–Wilkes-Barre–Hazleton, PA MSA |
| 96 | USA PA Harrisburg Capital City Airport | Harrisburg-Carlisle, PA MSA |
| 97 | USA OH Youngstown Regional Airport | Youngstown-Warren-Boardman, OH-PA MSA |
| 98 | USA FL Melbourne Regional Airport | Palm Bay-Melbourne-Titusville, FL MSA |
| 99 | USA TN Chattanooga Lovell Field Airport | Chattanooga, TN-GA MSA |
| 100 | USA WA Spokane Int’l Airport | Spokane-Spokane Valley, WA MSA |

# Appendix 2 – Flow diagram of data sources and analysis



[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] See the following sources: Bahillo, A. et al. Journal of Energy Resources Technology, "NOx 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. Published at http://www.usu.edu/recycle/faq.htm. Accessed December 2006.

[3] 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.

**Table C.1 Average Heat Content of Fossil-Fuel Receipts, April 2018**

| Census Division and State | Coal (Million Btu per Ton) | Petroleum Liquids (Million Btu per Barrel) | Petroleum Coke (Million Btu per Ton) | Natural Gas (Million Btu per Thousand Cubic Feet) |
|---|---|---|---|---|
| New England | 25.50 | 5.92 | -- | 1.03 |
| Connecticut | -- | 5.80 | -- | 1.03 |
| Maine | 25.50 | 6.25 | -- | 1.06 |
| Massachusetts | -- | -- | -- | 1.03 |
| New Hampshire | -- | 5.70 | -- | 1.04 |
| Rhode Island | -- | -- | -- | 1.03 |
| Vermont | -- | -- | -- | -- |
| Middle Atlantic | 22.82 | 6.00 | -- | 1.03 |
| New Jersey | 25.93 | 5.72 | -- | 1.03 |
| New York | -- | -- | -- | 1.03 |
| Pennsylvania | 22.68 | 6.01 | -- | 1.03 |
| East North Central | 19.96 | 5.82 | 27.16 | 1.04 |
| Illinois | 17.69 | 5.79 | -- | 1.00 |
| Indiana | 22.34 | 5.74 | -- | 1.05 |
| Michigan | 18.86 | 5.86 | 27.16 | 1.04 |
| Ohio | 24.41 | 5.81 | -- | 1.06 |
| Wisconsin | 17.76 | 5.82 | 27.10 | 1.03 |
| West North Central | 16.30 | 5.76 | -- | 1.06 |
| Iowa | 17.43 | 5.74 | -- | 1.07 |
| Kansas | 17.10 | 5.78 | -- | 1.04 |
| Minnesota | 17.79 | 5.77 | -- | 1.06 |
| Missouri | 17.78 | 5.77 | -- | 1.02 |
| Nebraska | 16.90 | 5.75 | -- | 1.06 |
| North Dakota | 13.07 | 5.70 | -- | 1.00 |
| South Dakota | 16.53 | -- | -- | -- |
| South Atlantic | 23.45 | 5.89 | 28.28 | 1.03 |
| Delaware | -- | -- | -- | 1.03 |
| District of Columbia | -- | -- | -- | -- |
| Florida | 23.71 | 5.81 | 28.28 | 1.02 |
| Georgia | 19.48 | 5.80 | -- | 1.03 |
| Maryland | 24.91 | 5.81 | -- | 1.05 |
| North Carolina | 24.92 | 6.17 | -- | 1.03 |
| South Carolina | 24.48 | 5.88 | -- | 1.03 |
| Virginia | 21.61 | 5.90 | -- | 1.05 |
| West Virginia | 24.78 | 5.78 | -- | 1.08 |
| East South Central | 20.92 | 5.82 | -- | 1.03 |
| Alabama | 19.71 | 5.80 | -- | 1.03 |
| Kentucky | 22.43 | 5.84 | -- | 1.06 |
| Mississippi | 12.93 | 5.80 | -- | 1.02 |
| Tennessee | 23.82 | 5.77 | -- | 1.01 |
| West South Central | 16.28 | 5.90 | 28.78 | 1.03 |
| Arkansas | 17.56 | 5.80 | -- | 1.02 |
| Louisiana | 17.42 | -- | 28.78 | 1.03 |
| Oklahoma | 17.41 | 5.98 | -- | 1.03 |
| Texas | 15.81 | 5.83 | -- | 1.03 |
| Mountain | 18.60 | 5.75 | -- | 1.05 |
| Arizona | 19.24 | 5.75 | -- | 1.04 |
| Colorado | 18.03 | 5.67 | -- | 1.09 |
| Idaho | -- | -- | -- | -- |
| Montana | 16.96 | 5.92 | -- | 1.04 |
| Nevada | 17.83 | 5.60 | -- | 1.04 |
| New Mexico | 18.82 | 5.66 | -- | 1.04 |
| Utah | 21.25 | 5.75 | -- | 1.04 |
| Wyoming | 17.59 | 5.88 | -- | 1.05 |
| Pacific Contiguous | 18.77 | -- | -- | 1.04 |
| California | 23.12 | -- | -- | 1.03 |
| Oregon | -- | -- | -- | 1.05 |
| Washington | 16.73 | -- | -- | 1.10 |
| Pacific Noncontiguous | 18.80 | 6.16 | -- | 1.00 |
| Alaska | 14.32 | -- | -- | 1.00 |
| Hawaii | 19.56 | 6.16 | -- | -- |
| U.S. Total | 19.20 | 6.07 | 28.30 | 1.03 |

'Coal' includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
'Petroleum Liquids' include 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.
Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2014 through 2016**

| | Mean Absolute Value of Percent Change Total (All Sectors) | | |
|---|---|---|---|
| **Item** | **2014** | **2015** | **2016** |
| Net Generation | | | |
| Coal | 0.25% | 0.33% | 0.09% |
| Petroleum Liquids | 2.32% | 1.00% | 3.08% |
| Petroleum Coke | 2.96% | 1.60% | 1.46% |
| Natural Gas | 0.42% | 0.18% | 0.30% |
| Other Gases | 4.12% | 3.90% | 3.76% |
| Hydroelectric | 0.49% | 1.08% | 0.76% |
| Nuclear | 0.01% | 0.01% | 0.05% |
| Other | 0.43% | 0.80% | 0.76% |
| **Total** | **0.08%** | **0.23%** | **0.08%** |
| Consumption of Fossil Fuels for Electricity Generation | | | |
| Coal | 0.13% | 0.24% | 0.11% |
| Petroleum Liquids | 2.17% | 2.28% | 5.81% |
| Petroleum Coke | 3.19% | 1.50% | 0.87% |
| Natural Gas | 0.48% | 0.32% | 2.26% |
| Fuel Stocks for Electric Power Sector | | | |
| Coal | 0.38% | 0.40% | 0.72% |
| Petroleum Liquids | 4.25% | 2.92% | 3.19% |
| Petroleum Coke | 0.61% | 0.04% | 0.27% |
| Retail Sales | | | |
| Residential | 0.30% | 0.30% | 0.26% |
| Commercial | 0.38% | 0.18% | 0.55% |
| Industrial | 4.39% | 2.92% | 4.31% |
| Transportation | 0.44% | 0.37% | 0.06% |
| **Total** | **1.10%** | **0.93%** | **1.40%** |
| Revenue | | | |
| Residential | 0.43% | 0.15% | 0.28% |
| Commercial | 0.47% | 0.62% | 1.21% |
| Industrial | 5.66% | 3.15% | 4.54% |
| Transportation | 1.92% | 1.09% | 1.53% |
| **Total** | **1.01%** | **0.83%** | **1.34%** |
| Average Retail Price | | | |
| Residential | 0.12% | 0.15% | 0.05% |
| Commercial | 0.20% | 0.44% | 0.65% |
| Industrial | 1.20% | 0.31% | 0.24% |
| Transportation | 2.18% | 0.83% | 1.57% |
| **Total** | **0.16%** | **0.11%** | **0.10%** |
| Receipt of Fossil Fuels | | | |
| Coal | 2.20% | 1.70% | 1.92% |
| Petroleum Liquids | 0.49% | 1.86% | 1.16% |
| Petroleum Coke | 2.03% | 2.47% | 0.01% |
| Natural Gas | 0.26% | 0.25% | 0.21% |
| Cost of Fossil Fuels | | | |
| Coal | 0.18% | 0.04% | 0.12% |
| Petroleum Liquids | 0.04% | 0.25% | 0.26% |
| Petroleum Coke | 1.03% | 1.42% | 0.12% |
| Natural Gas | 0.06% | 0.14% | 0.12% |

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-month values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: Mean absolute value of percent change is the unweighted average of the absolute percent cahnges.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

**Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2014 through 2016**

| | 2014 | | | 2015 | | | 2016 | | |
|---|---|---|---|---|---|---|---|---|---|
| Item | Preliminary Annual Data | Final Annual Data | Percent Change | Preliminary Annual Data | Final Annual Data | Percent Change | Preliminary Annual Data | Final Annual Data | Percent Change |
| Net Generation (Thousand MWh) | | | | | | | | | |
| Coal | 1,585,697 | 1,581,710 | -0.25% | 1,356,057 | 1,352,398 | -0.27% | 1,240,108 | 1,239,149 | -0.08% |
| Petroleum Liquids | 18,708 | 18,276 | -2.31% | 17,456 | 17,372 | -0.48% | 12,675 | 13,008 | 2.63% |
| Petroleum Coke | 11,781 | 11,955 | 1.48% | 10,987 | 10,877 | -1.00% | 11,232 | 11,197 | -0.31% |
| Natural Gas | 1,121,928 | 1,126,609 | 0.42% | 1,335,068 | 1,333,482 | -0.12% | 1,380,295 | 1,378,307 | -0.14% |
| Other Gases | 11,578 | 12,022 | 3.83% | 12,963 | 13,117 | 1.18% | 13,000 | 12,807 | -1.48% |
| Hydroelectric | 252,540 | 253,193 | 0.26% | 246,075 | 243,989 | -0.85% | 259,143 | 261,126 | 0.77% |
| Nuclear | 797,067 | 797,166 | 0.01% | 797,178 | 797,178 | 0.00% | 805,327 | 805,694 | 0.05% |
| Other | 293,636 | 292,674 | -0.33% | 311,597 | 309,189 | -0.77% | 357,299 | 355,387 | -0.54% |
| **Total** | **4,092,935** | **4,093,606** | **0.02%** | **4,087,381** | **4,077,601** | **-0.24%** | **4,079,079** | **4,076,675** | **-0.06%** |
| Consumption of Fossil Fuels for Electricity Generation | | | | | | | | | |
| Coal (1,000 tons) | 854,416 | 853,634 | -0.09% | 740,855 | 739,594 | -0.17% | 678,005 | 677,371 | -0.09% |
| Petroleum Liquids (1,000 barrels) | 32,084 | 31,531 | -1.72% | 29,545 | 28,925 | -2.10% | 21,225 | 22,405 | 5.56% |
| Petroleum Coke (1,000 tons) | 4,325 | 4,412 | 2.02% | 4,088 | 4,044 | -1.07% | 4,275 | 4,253 | -0.52% |
| Natural Gas (1,000 Mcf) | 8,502,964 | 8,544,387 | 0.49% | 10,048,346 | 10,016,576 | -0.32% | 10,400,189 | 10,170,110 | -2.21% |
| Fuel Stocks for Electric Power Sector | | | | | | | | | |
| Coal (1,000 tons) | 151,362 | 151,548 | 0.12% | 197,128 | 195,548 | -0.80% | 163,946 | 162,009 | -1.18% |
| Petroleum Liquids (1,000 barrels) | 32,139 | 33,505 | 4.25% | 32,223 | 32,884 | 2.05% | 30,880 | 31,839 | 3.11% |
| Petroleum Coke (1,000 tons) | 847 | 827 | -2.29% | 1,342 | 1,340 | -0.15% | 872 | 845 | -3.10% |
| Retail Sales (Million kWh) | | | | | | | | | |
| Residential | 1,402,911 | 1,407,208 | 0.31% | 1,399,884 | 1,404,096 | 0.30% | 1,407,394 | 1,411,058 | 0.26% |
| Commercial | 1,357,505 | 1,352,158 | -0.39% | 1,358,419 | 1,360,752 | 0.17% | 1,359,617 | 1,367,191 | 0.56% |
| Industrial | 955,488 | 997,576 | 4.40% | 958,563 | 986,508 | 2.92% | 936,269 | 976,715 | 4.32% |
| Transportation | 7,776 | 7,758 | -0.24% | 7,659 | 7,637 | -0.29% | 7,499 | 7,497 | -0.03% |
| **Total** | **3,723,681** | **3,764,700** | **1.10%** | **3,724,525** | **3,758,992** | **0.93%** | **3,710,779** | **3,762,462** | **1.39%** |
| Revenue (Million Dollars) | | | | | | | | | |
| Residential | 175,404 | 176,178 | 0.44% | 177,367 | 177,624 | 0.14% | 176,585 | 177,077 | 0.28% |
| Commercial | 145,889 | 145,253 | -0.44% | 143,893 | 144,781 | 0.62% | 140,937 | 142,643 | 1.21% |
| Industrial | 67,019 | 70,855 | 5.72% | 66,088 | 68,166 | 3.14% | 63,201 | 66,068 | 4.54% |
| Transportation | 798 | 810 | 1.51% | 779 | 771 | -1.12% | 711 | 722 | 1.53% |
| **Total** | **389,111** | **393,096** | **1.02%** | **388,127** | **391,341** | **0.83%** | **381,435** | **386,509** | **1.33%** |
| Average Retail Price (Cents/kWh) | | | | | | | | | |
| Residential | 12.50 | 12.52 | 0.13% | 12.67 | 12.65 | -0.16% | 12.55 | 12.55 | 0.02% |
| Commercial | 10.75 | 10.74 | -0.04% | 10.59 | 10.64 | 0.44% | 10.37 | 10.43 | 0.65% |
| Industrial | 7.01 | 7.10 | 1.26% | 6.89 | 6.91 | 0.22% | 6.75 | 6.76 | 0.21% |
| Transportation | 10.27 | 10.45 | 1.75% | 10.17 | 10.09 | -0.83% | 9.48 | 9.63 | 1.55% |
| **Total** | **10.45** | **10.44** | **-0.08%** | **10.42** | **10.41** | **-0.10%** | **10.28** | **10.27** | **-0.06%** |
| Receipt of Fossil Fuels | | | | | | | | | |
| Coal (1,000 tons) | 836,196 | 854,560 | 2.20% | 769,866 | 782,929 | 1.70% | 638,564 | 650,770 | 1.91% |
| Petroleum Liquids (1,000 barrels) | 28,355 | 28,514 | 0.56% | 24,512 | 24,320 | -0.78% | 16,610 | 16,807 | 1.18% |
| Petroleum Coke (1,000 tons) | 5,091 | 5,195 | 2.03% | 4,779 | 4,897 | 2.46% | 4,166 | 4,166 | 0.01% |
| Natural Gas (1,000 Mcf) | 8,423,883 | 8,431,423 | 0.09% | 9,843,170 | 9,842,581 | -0.01% | 10,258,688 | 10,271,180 | 0.12% |
| Cost of Fossil Fuels (Dollars per Million Btu) | | | | | | | | | |
| Coal (1,000 tons) | 2.37 | 2.37 | 0.02% | 2.22 | 2.22 | -0.03% | 2.12 | 2.11 | -0.15% |
| Petroleum Liquids (1,000 barrels) | 19.89 | 19.89 | -0.03% | 11.48 | 11.49 | 0.10% | 9.36 | 9.39 | 0.28% |
| Petroleum Coke (1,000 tons) | 1.96 | 1.98 | 0.97% | 1.87 | 1.84 | -1.37% | 1.65 | 1.65 | 0.15% |
| Natural Gas (1,000 Mcf) | 4.99 | 4.99 | 0.01% | 3.22 | 3.23 | 0.18% | 2.88 | 2.87 | -0.06% |

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-year values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.
Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2016 are Final.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report';
Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report';
and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

## Table C.4. Unit of Measure Equivalents for Electricity

| Unit | Equivalent |
|---|---|
| Kilowatt (kW) | 1,000 (One Thousand) Watts |
| Megawatt (MW) | 1,000,000 (One Million) Watts |
| Gigawatt (GW) | 1,000,000,000 (One Billion) Watts |
| Terawatt (TW) | 1,000,000,000,000 (One Trillion) Watts |
| | |
| Gigawatt | 1,000,000 (One Million) Kilowatts |
| Thousand Gigawatts | 1,000,000,000 (One Billion) Kilowatts |
| | |
| Kilowatthours (kWh) | 1,000 (One Thousand) Watthours |
| Megawatthours (MWh) | 1,000,000 (One Million) Watthours |
| Gigawatthours (GWh) | 1,000,000,000 (One Billion) Watthours |
| Terawatthours (TWh) | 1,000,000,000,000 (One Trillion) Watthours |
| | |
| Gigawatthours | 1,000,000 (One Million) Kilowatthours |
| Thousand Gigawatthours | 1,000,000,000(One Billion Kilowatthours |

Source: U.S. Energy Information Administration

# Glossary

**Anthracite:** The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980's, anthracite refuse or mine waste has been used for steam electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

**Ash:** Impurities consisting of silica, iron, aluminum, and other noncombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect its burning characteristics. Ash content is measured as a percent by weight of coal on a "received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

**Ash content:** The amount of ash contained in the fuel (except gas) in terms of percent by weight.

**Average Price of Electricity to Ultimate Consumers** (formerly known as Average Revenue per Kilowatthour): The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and geographic area (State, Census division, and national), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

**Barrel:** A unit of volume equal to 42 U.S. gallons.

**Biomass:** Organic non-fossil material of biological origin constituting a renewable energy resource.

**Bituminous coal:** A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

**British thermal unit:** The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

**Btu:** The abbreviation for British thermal unit(s).

**Capacity:** See Generator Capacity and Generator Name Plate Capacity (Installed).

**Census Divisions:** Any of nine geographic areas of the United States as defined by the U.S. Department of Commerce, Bureau of the Census. The divisions, each consisting of several States, are defined as follows:

1) *New England:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont;
2) *Middle Atlantic:* New Jersey, New York, and Pennsylvania;
3) *East North Central:* Illinois, Indiana, Michigan, Ohio, and Wisconsin;
4) *West North Central:* Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota;
5) *South Atlantic:* Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia;
6) *East South Central:* Alabama, Kentucky, Mississippi, and Tennessee;
7) *West South Central:* Arkansas, Louisiana, Oklahoma, and Texas;
8) *Mountain:* Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming;
9) *Pacific:* Alaska, California, Hawaii, Oregon, and Washington.

*Note:* Each division is a sub-area within a broader Census Region. In some cases, the Pacific division is subdivided into the Pacific Contiguous area (California, Oregon, and Washington) and the Pacific Noncontiguous area (Alaska and Hawaii).

**Coal:** A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

**Coal synfuel:** Coal-based solid fuel that has been processed by a coal synfuel plant; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

**Coke (petroleum):** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

**Combined cycle:** An electric generating technology in which electricity is produced from otherwise lost waste heat exiting from one or more gas (combustion) turbine-generators. The exiting heat from the combustion turbine(s) is routed to a conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of additional electricity.

**Combined heat and power (CHP):** Includes plants designed to produce both heat and electricity from a single heat source. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

**Commercial sector:** An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

**Consumption (fuel):** The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

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

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

**Diesel:** A distillate fuel oil that is used in diesel engines such as those used for transportation and for electric power generation.

**Distillate fuel oil:** *A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.*

1) *No. 1 Distillate:* A light petroleum distillate that can be used as either a diesel fuel (see No. 1 Diesel Fuel) or a fuel oil. See No. 1 Fuel Oil.

- *No. 1 Diesel fuel:* A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines, such as those in city buses and similar vehicles. See No. 1 Distillate above.
- *No. 1 Fuel oil:* A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See No. 1 Distillate above.

2) *No. 2 Distillate:* A petroleum distillate that can be used as either a diesel fuel (see No. 2 Diesel Fuel definition below) or a fuel oil. See No. 2 Fuel oil below.

- *No. 2 Diesel fuel:* A fuel that has distillation temperatures of 500 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See No. 2 Distillate above.

3) *No. 4 Fuel:* A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

- *No. 4 Diesel fuel and No. 4 Fuel oil:* See No. 4 Fuel above.

**Electric industry restructuring:** The process of replacing a monopolistic system of electric utility suppliers with competing sellers, allowing individual ultimate customers to choose their supplier but still receive delivery over the power lines of the local utility. It includes the reconfiguration of vertically integrated electric utilities.

**Electric plant (physical):** A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

**Electric power sector:** An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-- i. e., North American Industry Classification System 22 plants.

**Electric utility:** A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

**Electricity:** A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

**Electricity generation:** The process of producing electric energy or the amount of electric energy produced by transforming other forms of energy, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

**Electricity generators:** The facilities that produce only electricity, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

**Energy:** The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

**Energy conservation features:** This includes building shell conservation features, HVAC conservation features, lighting conservation features, any conservation features, and other conservation features incorporated by the building. However, this category does not include any demand-side management (DSM) program participation by the building. Any DSM program participation is included in the DSM Programs.

**Energy efficiency:** Refers to programs that are aimed at reducing the energy used by specific end-use devices and systems, typically without affecting the services provided. These programs reduce overall electricity consumption (reported in megawatthours), often without explicit consideration for the timing of program-induced savings. Such savings are generally achieved by substituting technically more advanced equipment to produce the same level of end-use services (e.g. lighting, heating, motor drive) with less electricity. Examples include high-efficiency appliances, efficient lighting programs, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modifications, efficient building design, advanced electric motor drives, and heat recovery systems.

**Energy service provider:** An energy entity that provides service to an ultimate consumer.

**Energy source:** Any substance or natural phenomenon that can be consumed or transformed to supply heat or power. Examples include petroleum, coal, natural gas, nuclear, biomass, electricity, wind, sunlight, geothermal, water movement, and hydrogen in fuel cells.

**Energy-only service:** Sales services for ultimate consumers for which the company provided only the energy consumed, where another entity provides delivery services.

**Fossil fuel:** An energy source formed in the earths crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

**Franchised service area:** A specified geographical area in which a utility has been granted the exclusive right to serve customers. A franchise allows an entity to use city streets, alleys and other public lands in order to provide, distribute, and sell services to the community.

**Fuel:** Any material substance that can be consumed to supply heat or power. Included are petroleum, coal, and natural gas (the fossil fuels), and other consumable materials, such as uranium, biomass, and hydrogen.

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

**Gas turbine plant:** An electric generating facility in which the prime mover is a gas (combustion) turbine. A gas turbine typically consists of an air compressor and one or more combustion chambers where either liquid or gaseous fuel is burned. The resulting hot gases are passed through the turbine where they expand to drive both an electric generator and the compressor.

**Generating unit:** Any combination of physically connected generators, reactors, boilers, combustion turbines, or other prime movers operated together to produce electric power.

**Generator:** A machine that converts mechanical energy into electrical energy.

**Generator capacity:** The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

**Generator nameplate capacity (installed):** The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.

**Geothermal:** Pertaining to heat within the Earth.

**Geothermal energy:** Hot water or steam extracted from geothermal reservoirs in the earth's crust. Water or steam extracted from geothermal reservoirs can be used for geothermal heat pumps, water heating, or electricity generation.

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

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

**Gross generation:** The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

**Heat content:** The amount or number of British thermal units (Btu) produced by the combustion of fuel, measured in Btu/unit of measure.

**Hydroelectric power:** The production of electricity from the kinetic energy of falling water.

**Hydroelectric power generation:** Electricity generated by an electric power plant whose turbines are driven by falling water. It includes electric utility and industrial generation of hydroelectricity, unless otherwise specified. Generation is reported on a net basis, i.e., on the amount of electric energy generated after the electric energy consumed by station auxiliaries and the losses in the transformers that are considered integral parts of the station are deducted.

**Hydroelectric pumped storage:** Hydroelectricity that is generated during peak loads by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

**Hydrogen:** A colorless, odorless, highly flammable gaseous element. It is the lightest of all gases and the most abundant element in the universe, occurring chiefly in combination with oxygen in water and also in acids, bases, alcohols, petroleum, and other hydrocarbons.

**Independent power producer:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility.

**Industrial sector:** An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

**Interdepartmental service (electric):** Interdepartmental service includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

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

**Investor-owned utility (IOU):** A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

**Jet fuel:** A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

**Kerosene:** A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

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

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

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

**Lignite:** The lowest rank of coal, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

**Manufactured gas:** A gas obtained by destructive distillation of coal, or by thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas

**Mcf:** One thousand cubic feet.

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

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

**Municipal utility:** A nonprofit utility, owned by a local municipality and operated as a department thereof, governed by a city council or an independently elected or appointed board; primarily involved in the distribution and/or sale of electric power to ultimate consumers.

**Natural gas:** A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

1) *Wet natural gas:* A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane, and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Exchange Commission and the Financial Accounting Standards Board refer to this product as natural gas.

   - Associated-dissolved natural gas: Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved gas).
   - Nonassociated natural gas: Natural gas that is not in contact with significant quantities of crude oil in the reservoir.

2) *Dry natural gas:* Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

**Net generation:** The amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

**Net summer capacity:** The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of May 1 through October 31). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

**Net winter capacity:** The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of peak winter demand (period of November 1 though April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

**North American Electric Reliability Council (NERC):** A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. The NERC Regions are:

1) Texas Regional Entity (TRE),
2) Florida Reliability Coordinating Council (FRCC),
3) Midwest Reliability Organization (MRO),
4) Northeast Power Coordinating Council (NPCC),
5) ReliabilityFirst Corporation (RFC),
6) Southeastern Electric Reliability Council (SERC),
7) Southwest Power Pool (SPP), and the
8) Western Energy Coordinating Council (WECC).

**North American Industry Classification System (NAICS):** A set of codes that describes the possible purposes of a facility.

**Nuclear electric power:** Electricity generated by an electric power plant whose turbines are driven by steam produced by the heat from the fission of nuclear fuel in a reactor.

**Other customers:** Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, sales for irrigation, and interdepartmental sales.

**Other generation:** Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste gasses, excluding natural gas; biomass; geothermal; wind; solar thermal; photovoltaic; synthetic fuel; purchased steam; and waste oil energy sources.

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

**Petroleum:** A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

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

**Photovoltaic energy:** Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

**Plant:** A term commonly used either as a synonym for an industrial establishment or a generation facility or to refer to a particular process within an establishment.

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

**Power production plant:** All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

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

**Propane:** A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D 1835.

**Public street and highway lighting service:** Includes electricity supplied and services rendered for the purpose of lighting streets, highways, parks and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

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

**Receipts:** Purchases of fuel.

**Relative standard error:** The standard deviation of a distribution divided by the arithmetic mean, sometimes multiplied by 100. It is used for the purpose of comparing the variabilities of frequency distributions but is sensitive to errors in the means.

**Residential:** An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

**Residual fuel oil:** A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government

service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

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

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

**Sales:** The transfer of title to an energy commodity from a seller to a buyer for a price or the quantity transferred during a specified period.

**Service classifications (sectors):** Consumers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial and other.

**Service to public authorities:** Public authority service includes electricity supplied and services rendered to municipalities or divisions or agencies of State and Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

**Solar energy:** The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

**State power authority:** A nonprofit utility owned and operated by a state government agency, primarily involved in the generation, marketing, and/or transmission of wholesale electric power.

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

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

**Subbituminous coal:** A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

**Sulfur:** A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is

currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

**Sulfur content:** The amount of sulfur contained in the fuel (except gas) in terms of percent by weight.

**Supplemental gaseous fuel supplies:** Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

**Synthetic fuel:** A gaseous, liquid, or solid fuel that does not occur naturally. Synfuels can be made from coal (coal gasification or coal liquefaction), petroleum products, oil shale, tar sands, or plant products. Among the synfuels are various fuel gases, including but not restricted to substitute natural gas, liquid fuels for engines (e.g., gasoline, diesel fuel, and alcohol fuels) and burner fuels (e.g., fuel heating oils).

**Terrawatt:** One trillion watts.

**Terrawatthour:** One trillion kilowatthours.

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

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

**Ultimate consumer:** A consumer that purchases electricity for its own use and not for resale.

**Useful thermal output:** The thermal energy made available in a combined heat or power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

**Waste coal:** As a fuel for electric power generation, waste coal includes anthracite refuse or mine waste, waste from anthracite preparation plants, and coal recovered from previously mined sites.

**Waste gases:** As a fuel for electric power generation, waste gasses are those gasses that are produced from gasses recovered from a solid-waste or wastewater treatment facility, or the gaseous by-products of oil-refining processes.

**Waste oil:** As a fuel for electric power generation, waste oil includes recycled motor oil, and waste oil from transformers.

**Watt (W):** The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horsepower.

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

**Wind energy:** The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity.

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