Independent Statistics & Analysis
U.S. Energy Information Administration

Electric Power Monthly
with Data for May 2020

July 2020

This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the Department of Energy or other Federal agencies

Independent Statistics & Analysis
www.eia.gov

U.S. Department of Energy
Washington, DC 20585

Contacts

The Electric Power Monthly is prepared by the U.S. Energy Information Administration.

Questions and comments concerning the contents of the Electric Power Monthly may be directed to:

Brady Tyra
U.S. Energy Information Administration, EI-23
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, DC, 20585-0650

Email address: infoelectric@eia.gov

Subject specialists:

Subject	Specialist
U.S. electric net generation	Brady Tyra
U.S. electric consumption of fuels	Christopher Cassar
U.S. electric stocks of fuels	Christopher Cassar
U.S. electric fossil-fuel receipts	Joy Liu
U.S. electric fossil-fuel costs	Joy Liu
U.S. sales of electricity to ultimate consumers	Peter Wong
Sampling and estimation methodologies	Orhan Yildiz.

Requests for additional information on other statistics available from the U.S. Energy Information Administration or questions concerning subscriptions and report distribution may be directed to the Office of Communications of the U.S. Energy Information Administration at infoctr@eia.gov.

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.”

Table of Contents

Contacts

- Quality

Preface

- Background
- Data Sources
- Table and Figure Index

References

Glossary

Table and Figure Index

Executive Summary

Table ES.1.A. Total Electric Power Industry Summary Statistics
Table ES.1.B. Total Electric Power Industry Summary Statistics, Year-to-Date
Table ES.2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units
Table ES.2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus

Chapter 1. Net Generation

Table 1.1. Net Generation by Energy Source: Total (All Sectors)
Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors)
Table 1.2.A. Net Generation by Energy Source: Electric Utilities
Table 1.2.B. Net Generation by Energy Source: Independent Power Producers
Table 1.2.C. Net Generation by Energy Source: Commercial Combined Heat and Power Sector
Table 1.2.D. Net Generation by Energy Source: Industrial Combined Heat and Power Sector
Table 1.2.E. Net Generation by Energy Source: Residential Sector
Table 1.3.A. Net Generation by State by Sector
Table 1.3.B. Net Generation by State by Sector, Year-to-Date
Table 1.4.A. Net Generation from Coal by State by Sector
Table 1.4.B. Net Generation from Coal by State by Sector, Year-to-Date
Table 1.5.A. Net Generation from Petroleum Liquids by State by Sector
Table 1.5.B. Net Generation from Petroleum Liquids by State by Sector, Year-to-Date
Table 1.6.A. Net Generation from Petroleum Coke by State by Sector
Table 1.6.B. Net Generation from Petroleum Coke by State by Sector, Year-to-Date
Table 1.7.A. Net Generation from Natural Gas by State by Sector
Table 1.7.B. Net Generation from Natural Gas by State by Sector, Year-to-Date
Table 1.7.C. Utility-ScaleFacility Net Generation from Natural Gas by Technology: Total (All Sectors)
Table 1.8.A. Net Generation from Other Gases by State by Sector
Table 1.8.B. Net Generation from Other Gases by State by Sector, Year-to-Date
Table 1.9.A. Net Generation from Nuclear Energy by State by Sector
Table 1.9.B. Net Generation from Nuclear Energy by State by Sector, Year-to-Date
Table 1.10.A. Net Generation from Hydroelectric (Conventional) Power by State by Sector
Table 1.10.B. Net Generation from Hydroelectric (Conventional) Power by State by Sector, Year-to-Date
Table 1.11.A. Net Generation from Renewable Sources Excluding Hydroelectric by State by Sector
Table 1.11.B. Net Generation from Renewable Sources Excluding Hydroelectric by State by Sector, Year-to-Date
Table 1.12.A. Net Generation from Hydroelectric (Pumped Storage) Power by State by Sector
Table 1.12.B. Net Generation from Hydroelectric (Pumped Storage) Power by State by Sector, Year-to-Date
Table 1.13.A. Net Generation from Other Energy Sources by State by Sector
Table 1.13.B. Net Generation from Other Energy Sources by State by Sector, Year-to-Date
Table 1.14.A. Net Generation from Wind by State by Sector
Table 1.14.B. Net Generation from Wind by State by Sector, Year-to-Date
Table 1.15.A. Net Generation from Biomass by State by Sector

Table 1.15.B. Net Generation from Biomass by State by Sector, Year-to-Date
Table 1.16.A. Net Generation from Geothermal by Census Division by Sector
Table 1.16.B. Net Generation from Geothermal by Census Division by Sector, Year-to-Date
Table 1.17.A. Net Generation from Solar Photovoltaic by Census Division by Sector
Table 1.17.B. Net Generation from Solar Pholtovoltaic by Census Division by Sector, Year-to-Date
Table 1.18.A. Net Generation from Solar Thermal by Sector
Table 1.18.B. Net Generation from Solar Thermal by Census Division by Sector, Year-to-Date

Chapter 2. Consumption of Fossil Fuels

Table 2.1.A. Coal: Consumption for Electricity Generation by Sector
Table 2.1.B. Coal: Consumption for Useful Thermal Output by Sector
Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.2.A. Petroleum Liquids: Consumption for Electricity Generation by Sector
Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output by Sector
Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation by Sector
Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output by Sector
Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.4.A. Natural Gas: Consumption for Electricity Generation by Sector
Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output by Sector
Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.5.A. Landfill Gas: Consumption for Electricity Generation by Sector
Table 2.5.B. Landfill Gas: Consumption for Useful Output by Sector
Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation by Sector
Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output by Sector
Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.7.A Wood/Wood Waste Biomass: Consumption for Electricity Generation by Sector
Table 2.7.B Wood/Wood Waste Biomass: Consumption for Useful Thermal Output by Sector
Table 2.7 C Wood/Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.8.A. Consumption of Coal for Electricity Generation by State by Sector
Table 2.8.B. Consumption of Coal for Electricity Generation by State by Sector, Year-to-Date
Table 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State by Sector
Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State by Sector, Year-to-Date
Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State by Sector
Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State by Sector, Year-to-Date
Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State by Sector
Table 2.11.B. Consumption of Natural Gas for Electricity Generation by State by Sector, Year-to-Date
Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State by Sector
Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State by Sector, Year-to-Date
Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State by Sector

Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State by Sector, Year-to-Date
Table 2.14.A Consumption of Wood/Wood Waste Biomass for Electricity Generation by State by Sector
Table 2.14.B Consumption of Wood/Wood Waste Biomass for Electricity Generation by State by Sector, Year-to-Date

Chapter 3. Fossil-Fuel Stocks for Electricity Generation

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector
Table 3.2. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State
Table 3.3. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Division
Table 3.4. Stocks of Coal by Coal Rank

Chapter 4. Receipts and Cost of Fossil Fuels

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors)
Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities
Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers
Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector
Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector
Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State
Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, Year-to-Date
Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State
Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, Year-to-Date
Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State
Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, Year-to-Date
Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State
Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, Year-to-Date
Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State
Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, Year-to-Date
Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State
Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, Year-to-Date
Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State
Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, Year-to-Date
Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State
Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, Year-to-Date
Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State
Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilities by State
Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State
Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Combined Heat and Power Producers by State
Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Combined Heat and Power Producers by State

Chapter 5. Sales to Ultimate Consumers, Revenue, and Average Price of Electricity to Ultimate Consumers

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector
Table 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector
Table 5.3. Average Price of Electricity to Ultimate Customers: Total by End-Use Sector
Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State
Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date
Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State
Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date
Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State
Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date
Table 5.7. Number of Ultimate Consumers Served, by Sector
Table 5.8. Number of Ultimate Consumers Served, by Sector and State

Chapter 6. Capacity

Table 6.1. Electric Generating Summer Capacity Changes (MW) for Utility Scale Units
Table 6.1.A. Net Summer Capacity for Utility Scale Solar Photovoltaic and Distributed Solar Photovoltaic Capacity (Megawatts), 2008-September 2015
Table 6.1.B. Net Summer Capacity for Estimated Distributed Solar Photovoltaic Capacity by Sector
Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State
Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources by State
Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels by State
Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month
Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month
Table 6.5. Planned U.S. Electric Generating Unit Additions
Table 6.6 Planned U.S. Electric Generating Unit Retirements
Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels
Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels
Table 6.7.C Usage Factors for Utility Scale Generators
Figure 6.1.A. Utility Scale Generating Units Added
Figure 6.1.B. Utility Scale Generating Units Retired
Figure 6.1.C. Utility Scale Generating Units Planned to Come Online
Figure 6.1.D. Utility Scale Generating Units Planned to Retire

Chapter 7. Imports and Exports

Table 7.1. U.S. Electricity Imports from and Electricity Exports to Canada and Mexico (Megawatthours)

Chapter 8. Puerto Rico

Table 8.1 Sales of Electricity to Ultimate Customers by End-Use Sector
Table 8.2 Revenue from Sales of Electricity to Ultimate Consumers by End-Use Sector
Table 8.3 Number of Ultimate Customers Seved by Sector by End-Use Sector
Table 8.4 Average Price of Electricity to Ultimate Consumers by End-Use Sector
Table 8.5 Table 8.5. Net Summer Capacity (MW) of Existing Utility Scale Units by Technology for Puerto Rico, 2007-April 2018

Appendices

Table A.1.A. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State

Table A.1.A. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State (Continued)

Table A.1.B. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, Year-to-Date

Table A.1.B. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, Year-to-Date (Continued)

Table A.2.A. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State

Table A.2.A. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State (Continued)

Table A.2.B. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State, Year-to-Date

Table A.2.B. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State, Year-to-Date (Continued)

Table A.3.A. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State

Table A.3.A. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State (Continued)

Table A.3.B. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State, Year-to-Date

Table A.3.B. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State, Year-to-Date (Continued)

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State (Continued)

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, Year-to-Date

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, Year-to-Date (Continued)

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, (Continued)

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, Year-to-Date

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, Year-to-Date (Continued)

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

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

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State
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
Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State
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
Table B.1. Major Disturbances and Unusual Occurrences, Year-to-Date
Table B.2 Major Disturbances and Unusual Occurrences, Prior Year
Table C.1. Average Heat Content of Fossil-Fuel Receipts
Table C.2. Comparison of Preliminary Monthly Data versus Final Monthly Data at the U.S. Level
Table C.3. Comparison of Annual Monthly Estimates versus Annual Data at the U.S. Level, All Sectors
Table C.4. Unit-of-Measure Equivalents for Electricity

Executive Summary

Table ES1.A. Total Electric Power Industry Summary Statistics, 2020 and 2019

Net Generation and Consumption of Fuels for May														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	46,488	71,883	-35.3%	34,895	55,081	11,148	16,283	15	19	430	500	0	0
Petroleum Liquids	Utility Scale Facilities	694	943	-26.4%	511	671	145	230	7	8	30	34	0	0
Petroleum Coke	Utility Scale Facilities	632	747	-15.4%	436	552	167	143	0	0	30	52	0	0
Natural Gas	Utility Scale Facilities	116,236	116,236	0.0%	60,356	58,730	47,829	49,034	606	682	7,444	7,791	0	0
Other Gas	Utility Scale Facilities	862	1,101	-21.7%	8	0	151	338	0	0	704	764	0	0
Nuclear	Utility Scale Facilities	64,338	67,124	-4.1%	34,392	35,416	29,946	31,708	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	29,468	30,061	-2.0%	27,106	27,682	2,234	2,252	25	NM	102	102	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	43,996	39,419	11.6%	5,646	4,859	35,828	32,025	293	261	2,229	2,274	0	0
... Wind	Utility Scale Facilities	28,180	25,973	8.5%	4,211	3,739	23,945	22,209	16	16	9	10	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	9,742	7,191	35.5%	1,093	661	8,562	6,462	74	61	12	8	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,103	3,365	-7.8%	163	299	800	872	4	2	2,137	2,193	0	0
... Other Biomass	Utility Scale Facilities	1,550	1,542	0.6%	93	92	1,225	1,241	161	145	71	63	0	0
... Geothermal	Utility Scale Facilities	1,421	1,347	5.5%	86	69	1,296	1,241	39	37	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-367	-368	-0.4%	-273	-305	-94	-63	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,088	1,124	-3.2%	42	44	587	632	88	90	370	358	0	0
All Energy Sources	Utility Scale Facilities	303,434	328,269	-7.6%	163,120	182,728	127,941	132,582	1,034	1,084	11,339	11,874	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	4,245	3,558	19.3%	0	0	0	0	1,303	1,121	349	309	2,593	2,129
Estimated Total Solar Photovoltaic	All Facilities	13,541	10,414	30.0%	1,088	658	8,122	6,129	1,377	1,182	361	316	2,593	2,129
Estimated Total Solar	All Facilities	13,987	10,750	30.1%	1,093	661	8,562	6,462	1,377	1,182	361	316	2,593	2,129
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	26,827	40,061	-33.0%	19,765	30,220	6,911	9,654	5	6	146	181	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,260	1,653	-23.7%	961	1,227	247	370	20	18	33	37	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	248	298	-16.7%	183	219	54	63	0	0	11	15	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	849,293	852,486	-0.4%	457,548	449,520	343,154	351,859	3,743	4,218	44,847	46,890	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	797	1,001	-20.4%	112	136	50	100	27	34	607	731	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	130	267	-51.6%	3	6	14	18	22	120	91	124	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	63	78	-19.3%	3	1	8	9	0	0	52	69	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	100,313	98,314	2.0%	3,752	3,375	27,973	26,480	6,014	6,008	62,574	62,449	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	27,624	41,062	-32.7%	19,878	30,356	6,961	9,754	32	40	753	912	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,390	1,920	-27.6%	964	1,233	261	388	42	138	123	161	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	311	376	-17.2%	187	220	62	72	0	0	62	84	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	949,606	950,800	-0.1%	461,300	452,895	371,127	378,339	9,758	10,226	107,422	109,339	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	154,882	116,490	33.0%	124,071	93,643	30,269	22,245	56	45	486	557	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	NM	28,186	NM	NM	17,229	NM	9,224	NM	391	NM	1,342	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	615	566	8.7%	514	435	11	10	2	1	88	120	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for May									
	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	May 2020	May 2019	Percentage Change	May 2020	May 2019	Percentage Change	May 2020	May 2019	Percentage Change
Residential	105,345	99,810	5.5%	13,842	13,316	3.9%	13.14	13.34	-1.5%
Commercial	93,332	110,889	-15.8%	9,746	11,658	-16.4%	10.44	10.51	-0.7%
Industrial	71,195	80,657	-11.7%	4,615	5,401	-14.6%	6.48	6.70	-3.3%
Transportation	452	611	-26.0%	42	58	-27.6%	9.29	9.49	-2.1%
All Sectors	270,325	291,967	-7.4%	28,245	30,434	-7.2%	10.45	10.42	0.3%

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 2020 and 2019

Net Generation and Consumption of Fuels for January through May														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	258,891	391,519	-33.9%	192,984	290,453	63,422	98,265	99	134	2,386	2,668	0	0
Petroleum Liquids	Utility Scale Facilities	3,704	4,719	-21.5%	2,800	3,219	717	1,257	33	44	154	199	0	0
Petroleum Coke	Utility Scale Facilities	3,105	3,418	-9.2%	2,271	2,490	629	689	2	4	202	235	0	0
Natural Gas	Utility Scale Facilities	606,946	562,499	7.9%	305,530	275,688	257,890	243,881	3,265	3,416	40,262	39,513	0	0
Other Gas	Utility Scale Facilities	5,217	5,648	-7.6%	40	65	1,364	1,750	0	0	3,813	3,834	0	0
Nuclear	Utility Scale Facilities	327,660	331,200	-1.1%	179,153	175,741	148,506	155,459	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	121,871	127,126	-4.1%	110,629	115,668	10,638	10,870	96	102	508	486	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	209,379	188,102	11.3%	27,680	24,138	168,926	151,185	1,391	1,375	11,382	11,405	0	0
... Wind	Utility Scale Facilities	144,836	129,922	11.5%	21,946	19,327	122,757	110,464	83	83	49	47	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	34,272	27,419	25.0%	3,902	2,633	30,072	24,522	262	233	36	29	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	15,822	16,348	-3.2%	1,000	1,336	3,873	4,007	23	34	10,926	10,971	0	0
... Other Biomass	Utility Scale Facilities	7,772	7,661	1.4%	453	457	6,125	6,013	823	834	371	357	0	0
... Geothermal	Utility Scale Facilities	6,678	6,753	-1.1%	378	383	6,099	6,178	201	191	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,698	-1,592	6.6%	-1,313	-1,197	-384	-395	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	5,267	5,423	-2.9%	202	188	2,963	2,942	424	442	1,679	1,851	0	0
All Energy Sources	Utility Scale Facilities	1,540,343	1,618,062	-4.8%	819,975	886,451	654,671	665,904	5,310	5,518	60,388	60,190	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	16,358	13,697	19.4%	0	0	0	0	5,140	4,413	1,363	1,186	9,855	8,098
Estimated Total Solar Photovoltaic	All Facilities	49,331	39,953	23.5%	3,887	2,616	28,788	23,377	5,402	4,647	1,399	1,215	9,855	8,098
Estimated Total Solar	All Facilities	50,630	41,116	23.1%	3,902	2,633	30,072	24,522	5,402	4,647	1,399	1,215	9,855	8,098
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	148,030	218,418	-32.2%	109,082	161,036	38,083	56,409	29	38	836	935	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	6,846	8,333	-17.8%	5,280	5,910	1,321	2,130	82	85	163	208	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,210	1,358	-10.9%	923	1,001	227	289	1	1	60	67	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,384,051	4,077,142	7.5%	2,304,347	2,096,085	1,821,538	1,726,154	20,038	21,235	238,127	233,669	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	4,585	5,616	-18.4%	665	907	235	570	163	205	3,521	3,934	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	622	1,160	-46.4%	19	41	64	124	94	238	445	757	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	263	369	-28.6%	10	7	43	42	3	5	207	315	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	522,299	513,814	1.7%	19,481	18,027	144,315	141,679	33,012	33,578	325,491	320,531	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	152,614	224,034	-31.9%	109,747	161,943	38,318	56,979	192	243	4,358	4,869	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	7,468	9,493	-21.3%	5,299	5,951	1,385	2,254	176	323	608	964	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,473	1,727	-14.7%	933	1,007	270	331	4	7	267	383	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,906,351	4,590,957	6.9%	2,323,828	2,114,111	1,965,853	1,867,832	53,050	54,813	563,619	554,200	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through May									
	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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	Percentage Change
Residential	542,452	551,074	-1.6%	70,590	71,081	-0.7%	13.01	12.90	0.9%
Commercial	496,606	532,718	-6.8%	51,540	55,723	-7.5%	10.38	10.46	-0.8%
Industrial	371,194	385,226	-3.6%	23,789	25,584	-7.0%	6.41	6.64	-3.5%
Transportation	2,842	3,289	-13.6%	270	319	-15.3%	9.50	9.69	-2.0%
All Sectors	1,413,093	1,472,307	-4.0%	146,189	152,706	-4.3%	10.35	10.37	-0.2%

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, 2020 and 2019

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal (1000 tons)	28,899	45,861	35.23	39.91	195	239	173,395	229,368	36.26	40.13
Petroleum Liquids (1000 barrels)	1,090	1,095	38.96	87.01	114	125	4,899	6,346	63.07	83.21
Petroleum Coke (1000 tons)	195	162	45.35	63.78	5	5	1,087	750	42.04	65.96
Natural Gas (1000 Mcf)	810,417	815,717	2.24	2.85	566	571	4,164,152	3,901,935	2.38	3.47

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal (1000 tons)	21,157	34,035	36.48	41.24	142	165	128,044	168,078	37.30	41.46
Petroleum Liquids (1000 barrels)	671	810	40.39	85.55	73	88	3,639	4,795	65.01	83.20
Petroleum Coke (1000 tons)	195	162	45.35	63.78	5	5	1,087	750	42.04	65.96
Natural Gas (1000 Mcf)	412,855	410,771	2.51	3.03	292	298	2,066,076	1,892,990	2.62	3.65

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal (1000 tons)	7,262	11,203	30.61	35.24	41	60	42,607	58,159	32.14	35.55
Petroleum Liquids (1000 barrels)	398	270	36.02	91.40	31	28	1,132	1,421	55.99	83.35
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	334,474	340,689	1.87	2.60	229	226	1,775,405	1,683,829	2.08	3.28

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal (1000 tons)	0	0	--	--	0	0	4	5	67.52	65.74
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	631	782	3.22	3.38	3	3	3,417	3,837	3.22	3.45

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal (1000 tons)	480	623	50.12	51.21	12	14	2,740	3,126	51.65	53.45
Petroleum Liquids (1000 barrels)	21	15	48.89	86.68	10	9	128	130	69.43	81.87
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	62,457	63,475	2.02	2.83	42	44	319,255	321,278	2.13	3.30

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, 2020 and 2019

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal	536,562	890,175	1.90	2.06	195	239	3,266,781	4,430,303	1.92	2.08
Petroleum Liquids	6,466	6,587	6.57	14.47	114	125	29,317	38,356	10.54	13.77
Petroleum Coke	5,495	4,631	1.61	2.24	5	5	30,921	21,449	1.48	2.31
Natural Gas	835,885	841,017	2.17	2.77	566	571	4,307,534	4,030,761	2.30	3.36
Fossil Fuels	1,384,408	1,742,410	2.08	2.43	693	712	7,634,554	8,520,868	2.16	2.71

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal	400,318	661,447	1.93	2.12	142	165	2,435,337	3,253,997	1.96	2.14
Petroleum Liquids	4,012	4,914	6.76	14.11	73	88	21,901	29,131	10.80	13.69
Petroleum Coke	5,495	4,631	1.61	2.24	5	5	30,921	21,449	1.48	2.31
Natural Gas	425,641	422,966	2.43	2.94	292	298	2,136,009	1,954,583	2.54	3.53
Fossil Fuels	835,467	1,093,958	2.21	2.49	385	395	4,624,169	5,259,159	2.27	2.72

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal	126,481	216,008	1.76	1.83	41	60	775,052	1,111,549	1.77	1.86
Petroleum Liquids	2,325	1,581	6.16	15.62	31	28	6,629	8,431	9.56	14.05
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	345,359	351,935	1.80	2.51	229	226	1,839,230	1,741,315	2.00	3.17
Fossil Fuels	474,165	569,524	1.81	2.26	261	268	2,620,911	2,861,295	1.94	2.64

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal	0	0	--	--	0	0	84	115	2.96	2.90
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	657	811	3.09	3.26	3	3	3,555	3,974	3.10	3.34
Fossil Fuels	657	811	3.09	3.26	3	3	3,639	4,089	3.09	3.32

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
Coal	9,763	12,720	2.46	2.51	12	14	56,309	64,641	2.51	2.59
Petroleum Liquids	129	92	7.84	14.12	10	9	787	794	11.30	13.36
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	64,228	65,305	1.97	2.75	42	44	328,739	330,889	2.07	3.20
Fossil Fuels	74,120	78,118	2.04	2.73	44	46	385,834	396,325	2.15	3.12

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.

Chapter 1

Net Generation

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2010-May 2020
(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															
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	1,205,835	12,414	8,976	1,296,442	12,469	804,950	300,333	53,287	332,963	-6,495	13,096	4,034,271	23,990	74,008	77,277
2018	1,149,487	16,245	8,981	1,469,133	13,463	807,084	292,524	63,825	350,467	-5,905	12,973	4,178,277	29,539	89,773	93,365
2019	966,148	11,576	6,991	1,581,815	13,634	809,409	273,707	72,234	374,494	-5,261	13,302	4,118,051	35,041	104,057	107,275
Year 2018															
January	119,284	5,555	965	110,293	1,097	74,649	25,064	3,319	32,443	-547	1,109	373,230	1,619	4,810	4,938
February	82,050	804	754	98,512	1,092	64,790	24,902	3,896	29,415	-315	994	306,894	1,766	5,472	5,663
March	80,626	830	642	106,524	1,158	67,033	25,861	5,056	33,200	-490	1,108	321,547	2,434	7,233	7,490
April	73,346	872	666	98,371	1,099	59,133	28,115	6,057	32,446	-377	1,028	300,756	2,740	8,482	8,796
May	85,227	1,040	517	115,284	1,167	67,320	30,444	6,849	30,419	-390	1,070	338,948	3,011	9,430	9,860
June	101,503	1,066	834	130,826	1,091	69,688	27,597	7,415	31,193	-433	1,104	371,886	3,059	9,957	10,474
July	115,376	988	913	164,749	1,172	72,456	25,100	6,755	23,316	-644	1,111	411,290	3,146	9,521	9,901
August	115,129	1,047	879	161,676	1,301	72,282	22,017	6,695	26,601	-747	1,146	408,028	3,017	9,303	9,712
Sept	96,544	1,055	799	141,786	1,104	64,725	19,166	5,961	24,718	-603	1,004	356,258	2,674	8,205	8,635
October	87,264	1,015	562	123,142	1,016	59,397	19,548	4,970	27,426	-492	1,084	324,932	2,392	7,087	7,361
November	92,819	1,006	656	108,168	1,045	63,954	21,913	3,743	28,334	-343	1,075	322,369	1,905	5,480	5,648
December	100,319	966	795	109,802	1,120	71,657	22,797	3,110	30,956	-522	1,139	342,139	1,775	4,792	4,885
Year 2019															
January	101,008	1,358	840	119,307	1,115	73,701	24,210	3,655	31,689	-323	1,195	357,754	1,906	5,451	5,561
February	80,104	806	747	111,005	1,110	64,715	21,826	3,827	28,927	-389	1,002	313,680	2,062	5,757	5,888
March	78,516	823	639	112,945	1,251	65,080	25,546	5,910	32,399	-409	1,082	323,782	2,918	8,568	8,828
April	60,008	788	446	103,006	1,071	60,581	25,483	6,835	35,441	-103	1,020	294,577	3,253	9,764	10,089
May	71,883	943	747	116,236	1,101	67,124	30,061	7,191	32,227	-368	1,124	328,269	3,558	10,414	10,750
June	78,610	976	555	136,994	1,025	68,805	26,469	8,006	29,202	-385	1,107	351,363	3,615	11,181	11,620
July	100,981	1,029	746	174,341	1,290	72,199	23,730	8,169	28,592	-622	1,162	411,616	3,772	11,541	11,941
August	94,177	1,084	687	176,458	1,202	71,911	21,041	7,888	26,597	-579	1,199	401,665	3,623	11,098	11,510
Sept	85,918	942	638	150,753	1,139	66,064	16,324	6,752	30,558	-671	1,128	359,545	3,216	9,674	9,968
October	66,829	955	198	133,667	997	62,033	16,292	6,131	34,060	-373	1,087	321,875	2,840	8,673	8,971
November	75,560	911	339	117,762	1,196	64,125	20,520	4,377	31,319	-509	1,070	316,672	2,232	6,467	6,608
December	72,554	961	409	129,342	1,136	73,074	22,206	3,494	33,480	-529	1,126	337,253	2,046	5,471	5,541
Year 2020															
January	65,170	934	687	132,980	1,211	74,204	24,286	4,555	34,616	-406	1,084	339,320	2,293	6,733	6,848
February	56,072	749	452	126,024	1,234	65,950	25,077	5,652	35,006	-247	966	316,934	2,609	8,067	8,261
March	50,586	704	708	123,569	1,109	63,997	22,269	6,314	35,817	-353	1,058	305,779	3,409	9,513	9,723
April	40,576	624	626	108,138	801	59,170	20,771	8,010	35,415	-325	1,072	274,876	3,801	11,477	11,811
May	46,488	694	632	116,236	862	64,338	29,468	9,742	34,255	-367	1,088	303,434	4,245	13,541	13,987
Year to Date															
2018	440,533	9,102	3,543	528,984	5,613	332,925	134,386	25,177	157,922	-2,119	5,309	1,641,375	11,571	35,427	36,748
2019	391,519	4,719	3,418	562,499	5,648	331,200	127,126	27,419	160,684	-1,592	5,423	1,618,062	13,697	39,953	41,116
2020	258,891	3,704	3,105	606,946	5,217	327,660	121,871	34,272	175,108	-1,698	5,267	1,540,343	16,358	49,331	50,630
Rolling 12 Months Ending in May															
2019	1,100,473	11,862	8,856	1,502,648	13,498	805,359	285,264	66,066	353,228	-5,377	13,087	4,154,964	31,666	94,299	97,733
2020	833,521	10,561	6,678	1,626,263	13,203	805,869	268,452	79,087	388,918	-5,366	13,147	4,040,332	37,701	113,435	116,789

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 2018 and prior years are final. Values for 2019 and 2020 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), 2010-May 2020
(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													
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	254,303	50,018	3,269	41,124	11,543	6,951	3,115	15,927	300,333	686,583	23,990	74,008	77,277
2018	272,667	60,234	3,592	40,936	11,036	7,136	2,724	15,967	292,524	706,816	29,539	89,773	93,365
2019	300,071	69,017	3,217	39,851	10,075	6,104	2,382	16,011	273,707	720,435	35,041	104,057	107,275
Year 2018													
January	25,599	3,191	128	3,686	964	588	265	1,341	25,064	60,826	1,619	4,810	4,938
February	23,189	3,705	191	3,235	906	559	251	1,274	24,902	58,213	1,766	5,472	5,663
March	26,464	4,799	258	3,547	972	597	253	1,367	25,861	64,117	2,434	7,233	7,490
April	26,431	5,743	314	3,102	920	566	239	1,188	28,115	66,618	2,740	8,482	8,796
May	23,953	6,419	430	3,352	930	573	228	1,383	30,444	67,712	3,011	9,430	9,860
June	24,703	6,898	517	3,471	889	629	202	1,300	27,597	66,206	3,059	9,957	10,474
July	16,447	6,374	380	3,749	909	638	202	1,370	25,100	55,170	3,146	9,521	9,901
August	19,846	6,286	409	3,630	919	630	208	1,367	22,017	55,313	3,017	9,303	9,712
Sept	18,520	5,531	430	3,281	836	562	192	1,328	19,166	49,844	2,674	8,205	8,635
October	21,194	4,695	275	3,216	918	594	231	1,273	19,548	51,944	2,392	7,087	7,361
November	22,016	3,575	168	3,264	920	584	220	1,331	21,913	53,990	1,905	5,480	5,648
December	24,306	3,018	92	3,404	951	616	233	1,446	22,797	56,863	1,775	4,792	4,885
Year 2019													
January	25,122	3,545	111	3,533	870	529	214	1,422	24,210	59,554	1,906	5,451	5,561
February	23,000	3,695	131	3,165	798	464	192	1,308	21,826	54,580	2,062	5,757	5,888
March	26,116	5,650	260	3,257	865	492	232	1,437	25,546	63,855	2,918	8,568	8,828
April	29,711	6,511	325	3,027	791	471	202	1,239	25,483	67,760	3,253	9,764	10,089
May	25,973	6,855	336	3,365	830	528	183	1,347	30,061	69,479	3,558	10,414	10,750
June	22,947	7,566	439	3,339	846	524	184	1,362	26,469	63,677	3,615	11,181	11,620
July	22,024	7,769	400	3,569	863	538	186	1,412	23,730	60,491	3,772	11,541	11,941
August	19,869	7,475	413	3,717	864	546	192	1,409	21,041	55,526	3,623	11,098	11,510
Sept	24,385	6,458	294	3,282	824	511	171	1,384	16,324	53,634	3,216	9,674	9,968
October	28,136	5,833	298	3,081	850	500	216	1,277	16,292	56,483	2,840	8,673	8,971
November	25,603	4,235	141	3,107	816	486	196	1,112	20,520	56,216	2,232	6,467	6,608
December	27,183	3,424	70	3,407	860	515	213	1,301	22,206	59,180	2,046	5,471	5,541
Year 2020													
January	28,403	4,439	115	3,349	875	521	213	1,255	24,286	63,457	2,293	6,733	6,848
February	29,235	5,458	194	3,154	802	464	195	1,156	25,077	65,734	2,609	8,067	8,261
March	29,483	6,104	210	3,223	879	535	206	1,490	22,269	64,400	3,409	9,513	9,723
April	29,534	7,676	334	2,992	838	505	189	1,356	20,771	64,195	3,801	11,477	11,811
May	28,180	9,296	446	3,103	850	518	183	1,421	29,468	73,464	4,245	13,541	13,987
Year to Date													
2018	125,636	23,857	1,321	16,922	4,693	2,883	1,236	6,553	134,386	317,486	11,571	35,427	36,748
2019	129,922	26,256	1,163	16,348	4,153	2,484	1,024	6,753	127,126	315,228	13,697	39,953	41,116
2020	144,836	32,973	1,299	15,822	4,242	2,543	986	6,678	121,871	331,250	16,358	49,331	50,630
Rolling 12 Months Ending in May													
2019	276,953	62,633	3,434	40,362	10,496	6,737	2,512	16,167	285,264	704,558	31,666	94,299	97,733
2020	314,985	75,734	3,354	39,325	10,164	6,163	2,344	15,936	268,452	736,458	37,701	113,435	116,789

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020
(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												
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	893,639	8,567	6,711	623,834	149	424,485	275,677	3,348	42,763	-5,448	553	2,274,279
2018	863,505	10,108	6,817	720,206	151	424,251	267,336	4,916	44,184	-4,785	561	2,337,250
2019	722,333	8,182	5,112	782,470	154	430,672	249,707	6,547	49,499	-4,261	491	2,250,906
Year 2018												
January	88,718	2,491	770	55,797	26	39,366	23,106	288	4,399	-475	41	214,525
February	61,138	617	575	48,715	17	33,941	22,864	314	3,853	-226	38	171,847
March	58,606	595	491	52,161	16	35,262	23,638	446	4,276	-408	48	175,132
April	55,281	632	477	48,151	28	30,580	25,598	480	4,120	-295	39	165,093
May	64,034	745	336	58,251	11	34,479	28,055	463	3,427	-309	45	189,538
June	77,899	756	670	66,774	13	36,437	25,778	503	3,691	-339	50	212,232
July	88,102	668	716	81,297	15	38,293	23,303	477	2,824	-522	55	235,229
August	87,359	711	686	78,025	24	38,885	20,050	476	3,122	-626	56	228,767
Sept	73,021	781	639	68,655	3	34,377	17,368	436	3,288	-500	47	198,116
October	64,902	751	378	59,071	0	31,364	17,571	418	3,447	-405	43	177,541
November	68,864	703	477	51,796	0	33,043	19,630	325	3,631	-254	50	178,265
December	75,578	657	601	51,512	0	38,223	20,373	290	4,105	-426	49	190,963
Year 2019												
January	74,996	855	634	57,279	12	39,806	21,811	369	4,209	-247	42	199,767
February	59,589	561	564	54,489	22	34,243	19,786	386	3,636	-310	33	172,999
March	56,546	597	464	54,667	31	34,213	23,153	577	4,437	-309	33	174,409
April	44,241	534	276	50,523	0	32,063	23,235	641	5,024	-26	37	156,547
May	55,081	671	552	58,730	0	35,416	27,682	661	4,199	-305	44	182,728
June	60,148	724	398	69,984	23	36,847	24,285	638	3,886	-299	41	196,676
July	77,053	715	551	87,423	18	39,023	21,637	655	3,625	-505	40	230,233
August	71,916	809	501	89,675	16	39,218	19,389	616	3,175	-470	51	224,895
Sept	64,867	693	460	75,933	10	34,770	14,984	616	4,111	-583	43	195,903
October	49,122	698	146	66,403	0	32,289	14,927	547	4,621	-316	43	168,480
November	55,304	632	251	56,310	19	32,923	18,763	454	4,149	-424	41	168,422
December	53,470	693	315	61,054	2	39,861	20,054	387	4,428	-465	44	179,844
Year 2020												
January	48,438	757	493	64,603	0	40,721	22,070	531	4,450	-354	42	181,751
February	41,609	588	366	63,018	8	36,079	22,902	606	4,999	-182	41	170,033
March	38,276	492	521	62,528	19	35,133	19,997	779	4,891	-252	41	162,425
April	29,767	451	455	55,024	6	32,827	18,554	894	4,884	-252	35	142,646
May	34,895	511	436	60,356	8	34,392	27,106	1,093	4,553	-273	42	163,120
Year to Date												
2018	327,778	5,080	2,649	263,076	97	173,629	123,262	1,991	20,076	-1,713	211	916,136
2019	290,453	3,219	2,490	275,688	65	175,741	115,668	2,633	21,504	-1,197	188	886,451
2020	192,984	2,800	2,271	305,530	40	179,153	110,629	3,902	23,777	-1,313	202	819,975
Rolling 12 Months Ending in May												
2019	826,179	8,246	6,657	732,818	118	426,363	259,743	5,559	45,612	-4,270	538	2,307,564
2020	624,864	7,763	4,894	812,312	129	434,084	244,668	7,816	51,772	-4,377	504	2,184,430

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020
(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												
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	304,198	3,281	1,480	572,919	3,978	380,465	23,034	49,376	258,962	-1,047	6,527	1,603,174
2018	278,668	5,487	1,516	645,616	3,935	382,833	23,812	58,337	275,154	-1,119	6,677	1,680,917
2019	237,174	2,842	1,212	692,263	4,152	378,738	22,670	65,000	294,607	-1,000	7,217	1,704,875
Year 2018												
January	29,839	2,951	137	45,672	318	35,283	1,856	3,000	25,364	-72	575	144,924
February	20,261	133	126	41,986	320	30,849	1,929	3,549	23,179	-89	543	122,786
March	21,377	186	96	46,436	331	31,770	2,114	4,563	26,260	-82	564	133,615
April	17,506	199	137	42,464	326	28,553	2,392	5,522	25,872	-82	527	123,416
May	20,600	248	124	48,762	379	32,841	2,264	6,325	24,380	-81	526	136,366
June	22,994	268	100	55,398	303	33,251	1,724	6,845	24,920	-95	582	146,291
July	26,647	260	139	73,967	344	34,163	1,700	6,214	17,729	-123	586	161,625
August	27,157	292	139	74,126	369	33,398	1,858	6,158	20,775	-121	579	164,730
Sept	22,941	233	108	64,337	328	30,348	1,692	5,475	18,927	-103	515	144,800
October	21,834	218	126	55,462	255	28,033	1,855	4,508	21,450	-87	556	134,209
November	23,393	245	140	47,623	311	30,911	2,150	3,386	22,175	-88	551	130,797
December	24,120	254	144	49,384	350	33,434	2,277	2,792	24,124	-96	574	137,357
Year 2019												
January	25,372	446	153	52,632	368	33,895	2,277	3,249	24,851	-76	629	143,797
February	19,948	197	139	48,354	355	30,472	1,936	3,405	22,900	-79	547	128,174
March	21,413	180	131	49,673	350	30,867	2,272	5,275	25,371	-100	581	136,013
April	15,249	204	124	44,189	339	28,518	2,134	6,130	27,977	-78	553	125,339
May	16,283	230	143	49,034	338	31,708	2,252	6,462	25,563	-63	632	132,582
June	17,943	209	103	58,397	325	31,958	2,066	7,292	22,771	-86	618	141,596
July	23,342	274	NM	77,551	390	33,176	1,983	7,434	22,317	-118	640	167,067
August	21,688	224	131	77,290	388	32,693	1,549	7,196	20,725	-109	644	162,420
Sept	20,506	203	118	65,876	349	31,294	1,247	6,072	24,018	-88	595	150,188
October	17,179	216	9	58,402	227	29,744	1,270	5,529	27,011	-56	588	140,120
November	19,706	233	41	52,187	352	31,202	1,651	3,881	24,675	-84	580	134,423
December	18,545	226	42	58,680	372	33,212	2,034	3,073	26,428	-64	610	143,158
Year 2020												
January	16,173	134	140	58,568	387	33,483	2,097	3,985	27,562	-52	611	143,088
February	13,937	122	40	54,135	389	29,871	2,058	5,000	27,573	-65	547	133,608
March	11,806	175	141	52,171	294	28,864	2,152	5,480	28,371	-101	620	129,973
April	10,358	140	142	45,187	143	26,343	2,096	7,044	28,082	-73	598	120,060
May	11,148	145	167	47,829	151	29,946	2,234	8,562	27,266	-94	587	127,941
Year to Date												
2018	109,582	3,717	620	225,320	1,675	159,296	10,555	22,959	125,055	-407	2,735	661,107
2019	98,265	1,257	689	243,881	1,750	155,459	10,870	24,522	126,662	-395	2,942	665,904
2020	63,422	717	629	257,890	1,364	148,506	10,638	30,072	138,854	-384	2,963	654,671
Rolling 12 Months Ending in May												
2019	267,352	3,027	1,586	664,178	4,010	378,996	24,127	59,900	276,762	-1,108	6,885	1,685,714
2020	202,331	2,302	NM	706,271	3,766	371,785	22,438	70,549	306,799	-990	7,238	1,693,642

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020
(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															
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	329	103	8	8,042	0	0	240	521	2,729	0	1,088	13,060	7,685	8,206	8,206
2018	303	132	7	8,419	0	0	227	525	2,688	0	1,010	13,312	9,798	10,324	10,324
2019	275	112	5	8,647	0	0	211	608	2,701	0	1,065	13,624	11,097	11,705	11,705
Year 2018															
January	40	41	1	671	0	0	19	29	229	0	84	1,114	552	581	581
February	32	7	1	626	0	0	19	31	206	0	72	995	605	636	636
March	27	7	1	647	0	0	21	43	227	0	83	1,058	820	863	863
April	24	8	0	585	0	0	24	50	217	0	81	989	907	957	957
May	21	7	0	656	0	0	24	57	221	0	90	1,076	992	1,048	1,048
June	20	7	0	737	0	0	21	62	224	0	92	1,163	1,003	1,065	1,065
July	21	11	0	875	0	0	19	59	223	0	90	1,298	1,036	1,094	1,094
August	23	9	0	892	0	0	17	56	230	0	90	1,318	993	1,049	1,049
Sept	24	7	1	771	0	0	16	46	213	0	80	1,156	893	938	938
October	20	7	1	668	0	0	14	39	223	0	83	1,055	786	826	826
November	25	12	1	622	0	0	16	29	212	0	77	993	623	652	652
December	24	9	1	669	0	0	17	25	262	0	88	1,095	589	614	614
Year 2019															
January	33	13	1	719	0	0	NM	32	255	0	94	1,167	632	665	665
February	28	8	1	670	0	0	NM	32	228	0	80	1,064	680	711	711
March	32	8	1	702	0	0	NM	51	253	0	89	1,157	938	990	990
April	21	7	1	644	0	0	NM	57	206	0	88	1,046	1,042	1,099	1,099
May	19	8	0	682	0	0	NM	61	200	0	90	1,084	1,121	1,182	1,182
June	14	7	0	690	0	0	21	67	217	0	92	1,106	1,130	1,196	1,196
July	NM	10	0	813	0	0	NM	70	226	0	91	1,247	1,184	1,254	1,254
August	18	13	0	841	0	0	NM	67	219	0	93	1,268	1,128	1,196	1,196
Sept	21	11	0	738	0	0	NM	57	213	0	90	1,141	1,006	1,063	1,063
October	20	10	0	701	0	0	NM	48	227	0	83	1,099	890	937	937
November	21	9	0	710	0	0	NM	37	225	0	82	1,099	688	725	725
December	26	9	1	738	0	0	16	30	234	0	92	1,145	658	688	688
Year 2020															
January	22	9	2	753	0	0	NM	34	229	0	90	1,157	732	767	767
February	28	5	1	676	0	0	NM	41	224	0	79	1,075	830	871	871
March	21	7	0	657	0	0	16	49	239	0	86	1,076	1,083	1,131	1,131
April	12	5	0	573	0	0	16	64	219	0	81	968	1,192	1,256	1,256
May	15	7	0	606	0	0	25	74	219	0	88	1,034	1,303	1,377	1,377
Year to Date															
2018	145	71	4	3,185	0	0	107	209	1,101	0	411	5,233	3,875	4,085	4,085
2019	134	44	4	3,416	0	0	102	233	1,142	0	442	5,518	4,413	4,647	4,647
2020	99	33	2	3,265	0	0	96	262	1,130	0	424	5,310	5,140	5,402	5,402
Rolling 12 Months Ending in May															
2019	291	106	8	8,651	0	0	NM	549	2,729	0	1,041	13,597	10,336	10,885	10,885
2020	NM	101	3	8,496	0	0	NM	637	2,690	0	1,047	13,417	11,824	12,461	12,461

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020
(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															
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	7,669	463	776	91,647	8,343	0	1,382	42	28,508	0	4,928	143,758	2,364	2,406	2,406
2018	7,011	517	640	94,892	9,377	0	1,149	47	28,440	0	4,725	146,798	2,636	2,683	2,683
2019	6,367	440	662	98,434	9,328	0	1,120	79	27,686	0	4,530	148,645	3,041	3,120	3,120
Year 2018															
January	687	73	57	8,153	752	0	83	2	2,450	0	410	12,668	146	149	149
February	619	47	52	7,184	755	0	89	3	2,177	0	340	11,265	155	158	158
March	616	41	54	7,280	811	0	87	4	2,437	0	413	11,742	221	225	225
April	535	33	51	7,172	744	0	102	4	2,237	0	380	11,258	241	245	245
May	572	41	56	7,614	778	0	101	5	2,390	0	409	11,967	267	271	271
June	590	34	64	7,918	775	0	74	5	2,358	0	381	12,199	268	273	273
July	606	49	57	8,609	813	0	78	5	2,540	0	381	13,138	277	282	282
August	590	35	54	8,634	909	0	91	5	2,474	0	421	13,212	268	273	273
Sept	558	34	51	8,022	773	0	90	4	2,290	0	363	12,185	242	247	247
October	507	39	58	7,941	762	0	108	4	2,307	0	402	12,127	220	224	224
November	536	46	38	8,127	734	0	116	3	2,318	0	396	12,313	174	177	177
December	596	46	49	8,237	771	0	130	2	2,464	0	429	12,724	157	160	160
Year 2019															
January	607	44	52	8,677	734	0	102	4	2,374	0	429	13,023	168	172	172
February	539	40	42	7,492	734	0	87	4	2,164	0	343	11,443	178	182	182
March	525	38	43	7,903	870	0	101	6	2,338	0	379	12,204	254	261	261
April	497	42	46	7,650	733	0	94	7	2,234	0	342	11,645	278	285	285
May	500	34	52	7,791	764	0	102	8	2,266	0	358	11,874	309	316	316
June	504	36	54	7,923	677	0	97	9	2,329	0	357	11,985	311	319	319
July	566	30	118	8,554	882	0	94	9	2,424	0	391	13,068	321	330	330
August	555	38	55	8,651	798	0	87	8	2,479	0	411	13,082	311	319	319
Sept	525	35	60	8,206	781	0	81	7	2,217	0	400	12,313	281	289	289
October	508	31	42	8,161	770	0	83	6	2,202	0	373	12,176	255	261	261
November	529	36	47	8,556	825	0	91	5	2,271	0	367	12,727	198	203	203
December	513	34	51	8,870	762	0	102	4	2,390	0	380	13,105	179	183	183
Year 2020															
January	538	34	52	9,056	824	0	100	4	2,375	0	341	13,324	192	196	196
February	497	33	NM	8,195	836	0	97	5	2,209	0	298	12,218	213	218	218
March	483	30	46	8,213	796	0	104	7	2,315	0	311	12,305	293	300	300
April	439	27	28	7,354	653	0	104	8	2,230	0	358	11,201	316	324	324
May	430	30	30	7,444	704	0	102	12	2,217	0	370	11,339	349	361	361
Year to Date															
2018	3,028	234	270	37,404	3,841	0	463	18	11,690	0	1,953	58,900	1,030	1,048	1,048
2019	2,668	199	235	39,513	3,834	0	486	29	11,375	0	1,851	60,190	1,186	1,215	1,215
2020	2,386	154	202	40,262	3,813	0	508	36	11,346	0	1,679	60,388	1,363	1,399	1,399
Rolling 12 Months Ending in May															
2019	6,651	483	605	97,001	9,370	0	1,172	59	28,125	0	4,622	148,088	2,792	2,851	2,851
2020	6,086	395	NM	99,183	9,308	0	1,142	85	27,657	0	4,358	148,843	3,218	3,303	3,303

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 2018 and prior years are final. Values for 2019 and 2020 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-May 2020 (Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,942
2018	17,105
2019	20,902
Year 2018	
January	921
February	1,007
March	1,393
April	1,592
May	1,753
June	1,788
July	1,834
August	1,756
Sept	1,539
October	1,385
November	1,108
December	1,029
Year 2019	
January	1,106
February	1,204
March	1,726
April	1,934
May	2,129
June	2,174
July	2,267
August	2,183
Sept	1,929
October	1,696
November	1,346
December	1,209
Year 2020	
January	1,369
February	1,566
March	2,034
April	2,293
May	2,593
Year to Date	
2018	6,665
2019	8,098
2020	9,855
Rolling 12 Months Ending in May	
2019	18,538
2020	22,659

See Glossary for definitions. Values for 2018 and prior years are final. Values for 2019 and 2020 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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	6,560	7,264	-9.7%	178	176	6,066	6,758	96	94	219	237
Connecticut	2,672	2,781	-3.9%	7	9	2,588	2,694	30	24	47	54
Maine	865	822	5.3%	NM	0	711	666	9	10	145	146
Massachusetts	926	1,530	-39.5%	50	41	812	1,415	49	50	15	23
New Hampshire	1,284	1,253	2.5%	43	59	1,236	1,187	3	4	2	3
Rhode Island	605	688	-12.1%	0	0	590	673	5	5	NM	NM
Vermont	207	191	8.6%	78	67	129	124	0	0	0	0
Middle Atlantic	30,021	32,442	-7.5%	2,795	2,771	26,773	29,172	175	182	278	317
New Jersey	4,216	4,909	-14.1%	11	8	4,109	4,796	48	50	48	56
New York	9,284	10,103	-8.1%	2,772	2,750	6,360	7,194	97	108	56	51
Pennsylvania	16,521	17,430	-5.2%	12	13	16,304	17,182	31	25	174	210
East North Central	37,965	45,527	-16.6%	11,358	16,103	25,606	28,466	131	146	870	812
Illinois	12,997	14,267	-8.9%	180	387	12,584	13,675	28	30	206	175
Indiana	5,834	7,788	-25.1%	3,506	5,381	1,957	2,032	20	25	351	349
Michigan	6,781	9,037	-25.0%	3,801	5,858	2,807	3,016	54	61	120	103
Ohio	8,061	9,609	-16.1%	826	864	7,163	8,675	16	18	55	53
Wisconsin	4,292	4,825	-11.1%	3,045	3,614	1,096	1,069	14	11	138	131
West North Central	24,464	24,878	-1.7%	18,083	19,075	6,095	5,429	41	44	245	330
Iowa	4,229	4,631	-8.7%	2,964	3,358	1,106	1,094	11	15	149	164
Kansas	4,046	4,120	-1.8%	2,245	2,566	1,795	1,542	NM	NM	NM	11
Minnesota	3,848	4,463	-13.8%	2,667	3,331	1,104	1,015	15	13	62	104
Missouri	5,053	5,551	-9.0%	4,601	5,035	437	500	13	13	3	2
Nebraska	2,880	2,278	26.4%	2,249	1,661	615	579	1	1	15	37
North Dakota	3,164	2,740	15.5%	2,482	2,195	670	532	NM	NM	NM	12
South Dakota	1,244	1,096	13.6%	876	928	369	168	NM	NM	0	0
South Atlantic	62,788	70,193	-10.5%	51,191	58,836	9,889	9,559	154	169	1,554	1,630
Delaware	362	381	-5.0%	1	1	266	267	1	0	94	112
District of Columbia	7	6	15.3%	0	0	NM	NM	5	4	0	0
Florida	20,787	22,136	-6.1%	19,430	20,668	935	1,035	6	6	417	427
Georgia	9,701	11,649	-16.7%	7,541	9,767	1,734	1,457	NM	NM	426	424
Maryland	2,738	3,380	-19.0%	93	216	2,556	3,040	85	103	4	21
North Carolina	9,409	11,199	-16.0%	7,591	9,390	1,641	1,633	25	21	153	155
South Carolina	7,242	8,957	-19.1%	6,795	8,655	300	150	0	0	147	152
Virginia	7,658	6,972	9.8%	5,810	5,485	1,628	1,242	33	34	187	212
West Virginia	4,884	5,513	-11.4%	3,930	4,652	828	734	0	0	126	128
East South Central	24,602	29,955	-17.9%	20,809	25,499	3,013	3,695	18	14	761	747
Alabama	10,575	12,089	-12.5%	7,575	8,777	2,602	2,931	0	0	398	381
Kentucky	4,411	5,546	-20.5%	4,327	5,497	37	NM	0	0	47	47
Mississippi	5,194	5,427	-4.3%	4,710	4,568	325	716	0	0	159	142
Tennessee	4,421	6,893	-35.9%	4,198	6,656	49	46	18	14	156	177
West South Central	57,020	59,500	-4.2%	17,497	19,002	33,625	34,154	66	85	5,833	6,259
Arkansas	3,532	4,845	-27.1%	3,033	4,317	401	383	NM	NM	92	141
Louisiana	8,525	8,418	1.3%	5,538	5,123	531	755	15	11	2,441	2,529
Oklahoma	6,440	5,922	8.7%	2,810	2,438	3,557	3,423	0	0	74	62
Texas	38,524	40,314	-4.4%	6,116	7,123	29,137	29,593	44	71	3,226	3,527
Mountain	27,786	26,535	4.7%	20,712	20,330	6,768	5,904	82	85	224	216
Arizona	9,350	8,425	11.0%	7,780	7,047	1,558	1,366	12	13	0	0
Colorado	3,911	4,209	-7.1%	2,652	3,170	1,248	1,029	5	4	6	6
Idaho	1,650	1,485	11.1%	1,133	1,035	467	396	4	4	47	50
Montana	1,813	1,892	-4.2%	1,250	1,155	560	735	0	0	NM	NM
Nevada	3,185	2,852	11.7%	1,963	1,795	1,156	995	50	49	16	13
New Mexico	2,539	2,483	2.3%	1,403	1,687	1,128	787	8	8	0	1
Utah	2,457	2,782	-11.7%	2,037	2,372	399	357	2	6	19	47
Wyoming	2,880	2,407	19.6%	2,494	2,069	252	239	0	0	134	100
Pacific Contiguous	31,032	30,699	1.1%	19,730	20,142	9,766	9,063	209	200	1,327	1,294
California	15,465	16,383	-5.6%	5,750	7,428	8,443	7,616	201	193	1,071	1,145
Oregon	4,875	4,581	6.4%	3,904	3,649	905	883	6	6	61	43
Washington	10,691	9,736	9.8%	10,076	9,065	418	564	2	NM	195	105
Pacific Noncontiguous	1,197	1,273	-6.0%	766	795	340	381	62	65	28	32
Alaska	476	435	9.5%	417	379	NM	17	32	NM	9	9
Hawaii	721	839	-14.0%	350	416	322	363	30	37	19	23
U.S. Total	303,434	328,269	-7.6%	163,120	182,728	127,941	132,582	1,034	1,084	11,339	11,874

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	37,319	40,191	-7.1%	894	1,056	34,695	37,435	521	536	1,209	1,164
Connecticut	16,342	15,085	8.3%	34	42	15,877	14,639	162	158	269	245
Maine	4,250	4,356	-2.4%	NM	0	3,432	3,564	47	59	770	733
Massachusetts	6,453	10,040	-35.7%	223	208	5,862	9,453	267	265	101	115
New Hampshire	6,144	6,916	-11.2%	242	435	5,868	6,437	23	31	11	12
Rhode Island	3,101	2,812	10.3%	0	0	3,022	2,732	21	21	58	59
Vermont	1,028	982	4.7%	395	371	632	610	1	2	0	0
Middle Atlantic	163,909	169,820	-3.5%	14,324	13,771	147,030	153,353	898	911	1,657	1,786
New Jersey	23,453	27,396	-14.4%	-12	34	22,940	26,839	234	226	290	296
New York	51,364	50,467	1.8%	14,274	13,668	36,222	35,917	508	522	360	361
Pennsylvania	89,093	91,956	-3.1%	62	68	87,868	90,597	156	162	1,007	1,129
East North Central	211,528	240,795	-12.2%	69,789	88,968	136,383	146,475	698	747	4,659	4,604
Illinois	66,390	75,310	-11.8%	1,781	1,958	63,344	72,110	160	159	1,104	1,083
Indiana	33,541	43,503	-22.9%	19,847	30,494	11,703	11,056	96	108	1,895	1,845
Michigan	41,574	47,164	-11.9%	25,253	31,622	15,425	14,576	296	333	600	633
Ohio	45,779	49,619	-7.7%	4,586	5,372	40,808	43,856	80	87	305	304
Wisconsin	24,245	25,198	-3.8%	18,322	19,522	5,103	4,878	65	60	755	738
West North Central	131,455	137,558	-4.4%	97,432	108,108	32,232	27,577	235	259	1,556	1,614
Iowa	23,149	26,073	-11.2%	16,196	19,552	6,056	5,599	76	91	822	832
Kansas	20,565	20,873	-1.5%	11,379	12,830	9,091	7,988	NM	NM	87	48
Minnesota	21,276	23,217	-8.4%	15,133	17,668	5,638	4,930	75	82	430	537
Missouri	27,601	31,160	-11.4%	25,032	28,875	2,482	2,199	68	72	19	15
Nebraska	15,123	14,444	4.7%	11,492	11,291	3,491	3,027	8	7	133	120
North Dakota	17,625	16,399	7.5%	13,933	13,430	3,625	2,905	NM	NM	66	63
South Dakota	6,115	5,392	13.4%	4,267	4,464	1,848	929	NM	NM	0	0
South Atlantic	304,114	313,306	-2.9%	249,721	259,854	45,773	44,870	740	778	7,880	7,804
Delaware	1,644	1,731	-5.0%	3	3	1,108	1,213	3	3	531	512
District of Columbia	45	40	14.7%	0	0	7	5	38	34	0	0
Florida	95,829	92,663	3.4%	89,199	86,634	4,585	3,939	31	30	2,014	2,060
Georgia	43,401	48,047	-9.7%	34,095	40,219	7,123	5,730	1	2	2,181	2,097
Maryland	14,037	16,166	-13.2%	1,275	1,795	12,345	13,809	398	444	19	118
North Carolina	46,997	49,472	-5.0%	38,811	41,767	7,301	6,857	114	113	769	735
South Carolina	38,890	41,262	-5.7%	37,121	39,747	997	759	2	2	770	754
Virginia	42,222	38,054	11.0%	32,886	29,622	8,167	7,291	152	151	1,017	991
West Virginia	21,050	25,871	-18.6%	16,330	20,067	4,141	5,267	0	0	579	537
East South Central	130,009	142,574	-8.8%	111,015	121,624	15,012	17,127	95	84	3,888	3,739
Alabama	52,458	56,084	-6.5%	37,719	40,854	12,744	13,330	0	0	1,996	1,899
Kentucky	23,141	28,287	-18.2%	22,823	27,932	72	126	0	0	247	229
Mississippi	25,288	24,984	1.2%	22,506	20,758	2,005	3,498	0	0	777	728
Tennessee	29,122	33,219	-12.3%	27,967	32,080	192	172	95	84	869	884
West South Central	272,348	275,369	-1.1%	83,273	88,425	156,948	154,656	375	424	31,752	31,865
Arkansas	18,365	24,495	-25.0%	16,002	21,770	1,844	1,968	25	NM	494	740
Louisiana	41,449	37,937	9.3%	26,914	21,284	1,957	3,318	78	66	12,500	13,270
Oklahoma	32,296	31,523	2.5%	13,282	14,311	18,626	16,883	0	0	388	328
Texas	180,238	181,414	-0.6%	27,075	31,060	134,521	132,487	272	340	18,370	17,526
Mountain	136,106	143,040	-4.8%	101,085	109,562	33,329	31,886	422	418	1,270	1,174
Arizona	39,549	42,217	-6.3%	33,016	36,551	6,474	5,604	59	62	0	0
Colorado	21,725	22,508	-3.5%	15,832	17,226	5,843	5,237	20	13	30	32
Idaho	7,633	6,792	12.4%	4,806	4,473	2,552	2,063	21	19	254	237
Montana	10,102	11,467	-11.9%	4,793	4,660	5,294	6,795	0	0	15	13
Nevada	15,098	14,533	3.9%	9,771	9,583	4,975	4,604	249	242	103	104
New Mexico	13,390	13,107	2.2%	7,964	8,218	5,377	4,846	39	42	10	1
Utah	12,973	15,468	-16.1%	11,282	13,702	1,488	1,492	34	40	169	235
Wyoming	15,637	16,949	-7.7%	13,621	15,149	1,326	1,247	0	0	689	553
Pacific Contiguous	147,222	149,220	-1.3%	88,130	91,009	51,679	50,867	1,043	1,060	6,370	6,284
California	72,142	78,888	-8.6%	26,395	33,958	39,394	38,416	1,001	1,018	5,353	5,496
Oregon	27,849	26,089	6.7%	19,763	19,029	7,746	6,772	32	30	308	258
Washington	47,230	44,243	6.8%	41,973	38,022	4,539	5,679	10	13	708	529
Pacific Noncontiguous	6,333	6,187	2.4%	4,312	4,074	1,590	1,657	284	300	147	156
Alaska	2,659	2,395	11.0%	2,372	2,123	101	93	136	130	49	50
Hawaii	3,674	3,792	-3.1%	1,940	1,951	1,488	1,564	148	170	98	106
U.S. Total	1,540,343	1,618,062	-4.8%	819,975	886,451	654,671	665,904	5,310	5,518	60,388	60,190

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	3	NM	NM	0	0	1	1	0	0	NM	NM
Connecticut	-2	-2	6.3%	0	0	-2	-2	0	0	0	0
Maine	4	NM	NM	0	0	3	3	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	-34.7%	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	1,498	2,141	-30.0%	0	0	1,495	2,131	0	0	3	10
New Jersey	70	78	-10.0%	0	0	70	78	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	1,429	2,064	-30.8%	0	0	1,425	2,054	0	0	3	10
East North Central	9,407	17,039	-44.8%	5,152	10,056	4,109	6,853	2	6	144	124
Illinois	1,860	3,390	-45.1%	124	303	1,615	2,988	2	NM	119	97
Indiana	2,608	4,712	-44.6%	2,241	4,494	367	213	0	4	0	0
Michigan	1,284	2,828	-54.6%	1,252	2,788	29	36	0	0	NM	NM
Ohio	2,281	3,952	-42.3%	183	336	2,098	3,616	0	0	0	0
Wisconsin	1,374	2,157	-36.3%	1,353	2,135	0	0	0	0	22	23
West North Central	8,704	10,736	-18.9%	8,548	10,511	0	0	1	4	155	222
Iowa	595	1,419	-58.1%	476	1,269	0	0	1	4	118	146
Kansas	1,061	1,108	-4.2%	1,061	1,108	0	0	0	0	0	0
Minnesota	587	1,489	-60.6%	572	1,457	0	0	0	0	NM	32
Missouri	3,386	4,235	-20.1%	3,386	4,235	0	0	0	0	0	0
Nebraska	1,419	880	61.2%	1,405	843	0	0	0	0	15	37
North Dakota	1,646	1,468	12.1%	1,638	1,461	0	0	0	0	NM	NM
South Dakota	10	136	-92.8%	10	136	0	0	0	0	0	0
South Atlantic	7,625	14,663	-48.0%	7,050	13,707	542	907	3	1	29	48
Delaware	-2	-2	-31.3%	0	0	-2	-2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,275	2,024	-37.0%	1,273	2,020	0	0	0	0	2	NM
Georgia	503	2,961	-83.0%	491	2,951	0	0	0	0	13	NM
Maryland	116	430	-73.1%	0	0	116	424	0	0	0	6
North Carolina	672	2,643	-74.6%	651	2,620	8	9	3	1	10	12
South Carolina	791	1,371	-42.3%	778	1,370	13	0	0	0	0	1
Virginia	3	180	-98.2%	0	163	-1	3	0	0	4	14
West Virginia	4,267	5,056	-15.6%	3,858	4,583	409	473	0	0	0	0
East South Central	4,815	8,045	-40.2%	4,510	7,725	274	281	0	0	31	39
Alabama	1,113	1,907	-41.7%	1,113	1,906	0	0	0	0	0	NM
Kentucky	2,694	4,038	-33.3%	2,694	4,038	0	0	0	0	0	0
Mississippi	389	514	-24.4%	114	233	274	281	0	0	0	0
Tennessee	620	1,586	-60.9%	589	1,548	0	0	0	0	31	38
West South Central	7,220	10,797	-33.1%	3,060	5,396	4,150	5,396	0	0	10	6
Arkansas	774	1,684	-54.0%	509	1,411	263	271	0	0	2	3
Louisiana	328	767	-57.2%	301	543	27	224	0	0	0	0
Oklahoma	241	487	-50.6%	233	484	0	0	0	0	7	3
Texas	5,876	7,859	-25.2%	2,017	2,959	3,859	4,900	0	0	0	0
Mountain	7,035	8,293	-15.2%	6,539	7,669	465	598	0	0	31	26
Arizona	978	1,599	-38.8%	978	1,599	0	0	0	0	0	0
Colorado	1,182	1,761	-32.9%	1,182	1,761	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	315	498	-36.7%	21	12	294	486	0	0	NM	NM
Nevada	101	97	3.7%	20	76	81	21	0	0	0	0
New Mexico	758	876	-13.5%	758	876	0	0	0	0	0	0
Utah	1,404	1,607	-12.6%	1,372	1,568	32	39	0	0	0	0
Wyoming	2,295	1,854	23.8%	2,207	1,777	58	53	0	0	29	25
Pacific Contiguous	25	24	6.6%	0	0	0	0	0	0	25	24
California	24	22	13.3%	0	0	0	0	0	0	24	22
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	2	-67.1%	0	0	0	0	0	0	1	2
Pacific Noncontiguous	157	140	11.6%	36	NM	111	116	NM	NM	0	0
Alaska	59	38	57.8%	36	NM	NM	13	NM	NM	0	0
Hawaii	98	103	-5.2%	0	0	98	103	0	0	0	0
U.S. Total	46,488	71,883	-35.3%	34,895	55,081	11,148	16,283	15	19	430	500

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are 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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	69	273	-74.6%	49	171	12	89	0	0	NM	12
Connecticut	-11	61	-118.0%	0	0	-11	61	0	0	0	0
Maine	31	40	-23.1%	0	0	23	28	0	0	NM	12
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	49	171	-71.2%	49	171	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	9,491	17,929	-47.1%	0	0	9,469	17,874	0	0	23	55
New Jersey	384	446	-14.0%	0	0	384	446	0	0	0	0
New York	144	342	-58.0%	0	0	144	342	0	0	0	0
Pennsylvania	8,964	17,141	-47.7%	0	0	8,941	17,087	0	0	23	55
East North Central	58,612	96,436	-39.2%	33,379	56,084	24,426	39,483	14	32	793	837
Illinois	10,231	21,407	-52.2%	639	1,576	8,939	19,183	7	14	646	635
Indiana	15,918	26,995	-41.0%	14,004	25,414	1,908	1,562	7	18	0	0
Michigan	8,916	16,011	-44.3%	8,737	15,861	162	122	0	0	17	29
Ohio	14,909	20,673	-27.9%	1,492	2,055	13,417	18,616	0	0	0	2
Wisconsin	8,638	11,350	-23.9%	8,507	11,179	0	0	0	0	131	172
West North Central	50,887	65,776	-22.6%	50,059	64,812	0	0	21	34	806	931
Iowa	4,302	9,210	-53.3%	3,714	8,566	0	0	18	28	570	616
Kansas	5,254	6,600	-20.4%	5,254	6,600	0	0	0	0	0	0
Minnesota	4,274	7,641	-44.1%	4,209	7,482	0	0	0	1	65	158
Missouri	18,805	23,616	-20.4%	18,802	23,611	0	0	3	5	0	0
Nebraska	7,637	7,605	0.4%	7,504	7,486	0	0	0	0	133	120
North Dakota	9,942	9,939	0.0%	9,903	9,901	0	0	0	0	40	37
South Dakota	673	1,165	-42.2%	673	1,165	0	0	0	0	0	0
South Atlantic	34,995	58,818	-40.5%	31,712	52,317	3,053	6,206	18	27	212	268
Delaware	-13	29	-145.0%	0	0	-13	29	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,683	7,594	-38.3%	4,666	7,566	0	0	0	0	NM	29
Georgia	2,479	9,331	-73.4%	2,401	9,258	0	0	0	0	78	73
Maryland	518	1,943	-73.4%	0	0	518	1,911	0	0	0	32
North Carolina	4,508	9,362	-51.8%	4,394	9,188	39	94	17	23	58	57
South Carolina	3,716	5,687	-34.7%	3,700	5,681	13	0	0	0	3	6
Virginia	656	1,117	-41.3%	592	940	6	102	1	4	56	72
West Virginia	18,448	23,754	-22.3%	15,958	19,684	2,490	4,070	0	0	0	0
East South Central	27,934	40,020	-30.2%	26,536	38,663	1,216	1,145	0	0	182	211
Alabama	6,748	10,522	-35.9%	6,740	10,504	0	0	0	0	NM	18
Kentucky	16,090	20,999	-23.4%	16,090	20,999	0	0	0	0	0	0
Mississippi	1,573	1,941	-18.9%	357	795	1,216	1,145	0	0	0	0
Tennessee	3,523	6,559	-46.3%	3,349	6,366	0	0	0	0	174	193
West South Central	32,965	52,722	-37.5%	13,953	28,249	18,944	24,404	0	0	68	70
Arkansas	4,615	8,746	-47.2%	3,436	7,425	1,164	1,301	0	0	16	20
Louisiana	1,062	3,181	-66.6%	962	2,037	100	1,145	0	0	0	0
Oklahoma	767	3,777	-79.7%	625	3,670	89	57	0	0	52	50
Texas	26,521	37,018	-28.4%	8,930	15,117	17,591	21,901	0	0	0	0
Mountain	41,276	55,575	-25.7%	36,482	49,184	4,631	6,238	0	0	164	152
Arizona	4,003	9,462	-57.7%	4,003	9,462	0	0	0	0	0	0
Colorado	7,999	10,236	-21.9%	7,999	10,232	0	0	0	0	0	4
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	3,950	5,513	-28.3%	93	116	3,853	5,395	0	0	NM	NM
Nevada	515	1,087	-52.6%	101	693	414	393	0	0	0	0
New Mexico	4,519	5,313	-14.9%	4,519	5,313	0	0	0	0	0	0
Utah	7,775	9,817	-20.8%	7,687	9,649	88	167	0	0	0	0
Wyoming	12,507	14,139	-11.5%	12,079	13,719	276	283	0	0	152	137
Pacific Contiguous	1,879	3,181	-40.9%	628	805	1,120	2,244	0	0	130	132
California	119	121	-2.0%	0	0	0	0	0	0	119	121
Oregon	628	805	-21.9%	628	805	0	0	0	0	0	0
Washington	1,132	2,256	-49.8%	0	0	1,120	2,244	0	0	12	11
Pacific Noncontiguous	783	789	-0.7%	184	168	553	581	46	40	0	0
Alaska	304	276	10.3%	184	168	75	68	46	40	0	0
Hawaii	479	513	-6.7%	0	0	479	513	0	0	0	0
U.S. Total	258,891	391,519	-33.9%	192,984	290,453	63,422	98,265	99	134	2,386	2,668

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	8	10	-19.6%	NM	NM	NM	NM	1	2	NM	NM
Connecticut	NM	NM	NM	0	NM	NM	NM	NM	NM	0	0
Maine	1	1	25.1%	0	0	0	0	0	0	NM	NM
Massachusetts	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
New Hampshire	1	1	17.5%	0	0	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	13	33	-61.0%	NM	4	NM	27	NM	NM	1	1
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	NM	12	NM	NM	4	NM	6	NM	NM	1	1
Pennsylvania	NM	19	NM	0	0	NM	19	0	0	1	NM
East North Central	31	37	-17.7%	22	28	8	9	0	NM	0	0
Illinois	3	4	-36.5%	0	1	2	3	NM	NM	0	0
Indiana	7	10	-28.6%	7	10	0	0	0	0	0	0
Michigan	9	7	37.9%	9	7	0	0	NM	NM	0	NM
Ohio	8	13	-38.6%	2	7	6	6	0	0	0	0
Wisconsin	4	NM	NM	3	NM	0	0	NM	NM	0	0
West North Central	23	33	-29.8%	22	32	NM	NM	0	0	0	0
Iowa	1	6	-84.3%	1	6	NM	0	0	0	0	0
Kansas	7	8	-12.6%	7	8	0	0	0	0	0	0
Minnesota	5	5	-6.5%	4	5	NM	NM	0	0	0	0
Missouri	5	8	-28.8%	5	8	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	4	3	25.9%	4	3	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	62	106	-41.1%	44	84	7	10	5	4	6	8
Delaware	NM	NM	NM	0	0	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	19	38	-51.0%	16	37	2	0	0	0	NM	NM
Georgia	1	11	-88.8%	-3	4	NM	NM	0	0	NM	6
Maryland	2	4	-48.7%	NM	0	2	4	NM	0	0	0
North Carolina	16	21	-20.5%	15	19	NM	NM	NM	NM	NM	NM
South Carolina	5	8	-38.2%	5	8	0	0	0	0	1	0
Virginia	10	12	-15.0%	NM	5	2	3	5	3	1	NM
West Virginia	7	10	-27.7%	7	10	0	0	0	0	0	0
East South Central	14	28	-49.7%	13	27	NM	NM	0	0	NM	1
Alabama	NM	2	NM	0	2	NM	NM	0	0	NM	NM
Kentucky	2	8	-77.5%	2	8	0	0	0	0	0	0
Mississippi	1	2	-21.6%	1	1	0	0	0	0	0	1
Tennessee	10	15	-31.8%	10	15	0	0	0	0	0	0
West South Central	8	18	-54.6%	7	13	1	5	0	0	0	1
Arkansas	-1	6	-120.4%	-2	4	0	2	0	0	0	0
Louisiana	2	2	-28.8%	2	2	0	0	0	0	0	0
Oklahoma	3	3	6.3%	3	2	0	0	0	0	0	0
Texas	5	7	-26.6%	4	4	1	3	0	0	0	0
Mountain	12	22	-43.1%	10	20	2	2	NM	NM	0	0
Arizona	3	6	-55.2%	3	6	0	0	NM	NM	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	2	2	6.6%	NM	NM	2	2	0	0	0	0
Nevada	1	1	-23.7%	0	0	0	0	0	0	0	0
New Mexico	2	5	-70.6%	2	5	0	0	0	0	0	0
Utah	3	4	-17.2%	3	4	0	0	0	0	0	0
Wyoming	2	3	-41.4%	2	3	0	0	0	0	0	0
Pacific Contiguous	4	4	5.8%	2	3	0	0	0	0	NM	NM
California	3	3	14.2%	2	3	0	0	0	0	1	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM
Pacific Noncontiguous	518	652	-20.6%	387	461	111	169	0	1	19	21
Alaska	62	73	-15.4%	59	69	0	0	NM	0	3	3
Hawaii	456	579	-21.2%	328	392	111	169	0	0	17	18
U.S. Total	694	943	-26.4%	511	671	145	230	7	8	30	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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	53	123	-56.5%	7	12	33	86	9	17	4	8
Connecticut	16	39	-59.0%	2	2	13	32	NM	3	0	2
Maine	10	11	-9.9%	0	0	6	5	0	1	3	5
Massachusetts	15	51	-71.4%	NM	NM	9	40	2	5	0	1
New Hampshire	8	13	-39.5%	2	4	NM	NM	6	7	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	1	2	NM	NM
Vermont	0	NM	NM	0	NM	0	0	0	0	0	0
Middle Atlantic	101	512	-80.2%	16	160	77	332	NM	6	5	14
New Jersey	21	49	-56.9%	0	1	21	47	0	1	0	1
New York	56	364	-84.6%	16	159	35	191	NM	NM	3	11
Pennsylvania	24	99	-75.4%	0	0	21	95	1	1	2	2
East North Central	131	201	-34.7%	86	114	43	79	0	1	2	7
Illinois	5	18	-71.2%	2	2	3	15	0	NM	0	0
Indiana	41	53	-21.6%	41	49	0	0	0	0	1	3
Michigan	26	37	-27.8%	26	35	0	0	NM	1	1	1
Ohio	45	71	-36.9%	6	12	38	57	0	0	1	2
Wisconsin	13	23	-41.2%	NM	15	1	7	NM	0	0	0
West North Central	103	150	-31.1%	100	143	NM	5	0	1	0	1
Iowa	7	30	-78.1%	6	29	1	1	0	0	0	0
Kansas	37	26	44.4%	37	26	0	0	0	0	0	0
Minnesota	15	21	-30.7%	12	16	NM	NM	0	1	0	1
Missouri	21	40	-48.3%	21	40	0	0	0	0	0	0
Nebraska	NM	9	NM	NM	9	0	0	0	0	0	0
North Dakota	15	20	-21.7%	15	20	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	295	540	-45.3%	211	384	40	101	15	12	29	43
Delaware	9	23	-61.9%	0	0	NM	23	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	74	114	-34.8%	67	106	2	1	0	0	5	7
Georgia	2	57	-96.3%	-16	26	NM	5	0	1	16	26
Maryland	16	37	-56.7%	0	0	16	35	NM	0	0	1
North Carolina	55	115	-52.1%	49	107	2	3	NM	NM	4	4
South Carolina	27	42	-34.4%	25	37	0	1	0	0	2	4
Virginia	48	109	-55.7%	22	64	9	32	15	11	2	1
West Virginia	64	44	45.0%	64	44	0	0	0	0	0	0
East South Central	71	114	-37.8%	67	107	0	1	0	0	3	6
Alabama	2	9	-75.6%	1	6	NM	1	0	0	NM	3
Kentucky	19	32	-40.8%	19	32	0	0	0	0	0	0
Mississippi	3	8	-57.1%	2	6	0	0	0	0	1	1
Tennessee	47	65	-28.6%	45	63	0	0	0	0	1	2
West South Central	40	62	-35.1%	29	43	11	15	0	0	1	4
Arkansas	13	23	-43.9%	9	14	3	7	0	0	0	1
Louisiana	3	4	-39.6%	3	4	0	0	0	0	0	0
Oklahoma	5	9	-47.4%	5	8	0	0	0	0	0	1
Texas	20	26	-22.5%	12	16	7	8	0	0	1	2
Mountain	68	91	-25.4%	64	85	4	6	NM	NM	0	0
Arizona	14	29	-52.5%	14	29	0	0	NM	NM	0	0
Colorado	NM	5	NM	NM	5	0	0	0	0	0	0
Idaho	0	0	-3.9%	0	0	0	0	0	0	0	0
Montana	NM	6	NM	NM	NM	3	4	0	0	0	0
Nevada	2	4	-48.5%	2	3	1	1	0	0	0	0
New Mexico	14	17	-17.0%	14	17	0	0	0	0	0	0
Utah	16	17	-7.4%	15	17	1	0	0	0	0	0
Wyoming	16	13	24.5%	16	13	0	0	0	0	0	0
Pacific Contiguous	26	31	-16.0%	16	16	4	3	0	0	5	11
California	17	24	-27.9%	13	14	2	1	0	0	2	8
Oregon	1	1	-9.8%	1	1	0	0	0	0	0	0
Washington	8	6	29.0%	2	NM	3	2	0	0	NM	3
Pacific Noncontiguous	2,815	2,896	-2.8%	2,203	2,156	503	629	5	6	104	106
Alaska	397	341	16.6%	374	319	0	0	2	4	22	18
Hawaii	2,418	2,555	-5.4%	1,830	1,837	503	629	3	2	82	88
U.S. Total	3,704	4,719	-21.5%	2,800	3,219	717	1,257	33	44	154	199

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
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	14	-100.0%	0	0	0	0	0	0	0	14
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	0	NM	NM	0	0	0	0	0	0	0	NM
East North Central	227	196	16.0%	87	86	128	100	0	0	12	10
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	95	91	3.8%	83	83	0	0	0	0	12	9
Ohio	128	101	26.8%	0	0	128	100	0	0	0	1
Wisconsin	4	3	25.3%	4	3	0	0	0	0	0	0
West North Central	5	0	--	0	0	0	0	0	0	5	0
Iowa	5	0	--	0	0	0	0	0	0	5	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	86	139	-37.8%	77	121	0	0	0	0	NM	17
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	77	121	-36.2%	77	121	0	0	0	0	0	0
Georgia	NM	17	NM	0	0	0	0	0	0	NM	17
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	274	356	-22.8%	271	344	0	0	0	0	NM	12
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	271	344	-21.1%	271	344	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	12	NM	0	0	0	0	0	0	NM	12
Mountain	39	43	-10.5%	0	0	39	43	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	43	-10.5%	0	0	39	43	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	632	747	-15.4%	436	552	167	143	0	0	30	52

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 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	17	61	-72.4%	0	0	0	0	0	0	17	61
New Jersey	17	28	-40.5%	0	0	0	0	0	0	17	28
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	32	-100.0%	0	0	0	0	0	0	0	32
East North Central	805	901	-10.6%	321	374	429	477	0	0	55	49
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	344	391	-12.2%	288	343	0	0	0	0	55	48
Ohio	430	479	-10.3%	0	0	429	477	0	0	0	1
Wisconsin	32	31	4.6%	32	31	0	0	0	0	0	0
West North Central	25	4	505.9%	0	0	0	0	2	4	23	0
Iowa	25	4	505.9%	0	0	0	0	2	4	23	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	642	645	-0.5%	569	566	0	0	0	0	72	79
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	569	566	0.6%	569	566	0	0	0	0	0	0
Georgia	72	79	-8.4%	0	0	0	0	0	0	72	79
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	1,416	1,596	-11.3%	1,381	1,550	0	0	0	0	35	46
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,381	1,556	-11.2%	1,381	1,550	0	0	0	0	0	6
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	35	41	-13.4%	0	0	0	0	0	0	35	41
Mountain	200	212	-5.5%	0	0	200	212	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	200	212	-5.5%	0	0	200	212	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	3,105	3,418	-9.2%	2,271	2,490	629	689	2	4	202	235

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	2,919	3,203	-8.9%	9	NM	2,726	3,000	80	75	104	122
Connecticut	1,562	1,547	1.0%	3	3	1,483	1,466	29	24	47	54
Maine	143	103	39.1%	0	0	110	69	2	2	31	32
Massachusetts	510	868	-41.2%	NM	NM	447	798	43	45	14	22
New Hampshire	159	38	321.4%	0	0	156	35	0	0	2	3
Rhode Island	545	648	-15.9%	0	0	530	633	4	4	NM	NM
Vermont	0	0	NM	0	0	0	0	0	0	0	0
Middle Atlantic	12,479	12,875	-3.1%	523	615	11,708	11,994	72	86	176	180
New Jersey	1,743	2,837	-38.6%	NM	NM	1,698	2,789	NM	12	31	30
New York	2,976	2,961	0.5%	515	609	2,365	2,254	58	65	38	33
Pennsylvania	7,760	7,078	9.6%	0	0	7,645	6,952	7	8	107	117
East North Central	11,302	10,647	6.2%	3,902	3,099	6,949	7,119	107	116	344	313
Illinois	1,153	1,036	11.3%	39	73	1,043	883	25	27	45	53
Indiana	2,437	2,279	6.9%	1,190	819	1,057	1,285	16	17	175	157
Michigan	2,547	2,406	5.9%	713	545	1,739	1,770	44	51	51	39
Ohio	3,672	3,614	1.6%	618	497	3,021	3,085	14	17	18	16
Wisconsin	1,493	1,312	13.8%	1,341	1,165	89	95	8	4	55	48
West North Central	1,925	2,230	-13.7%	1,642	1,849	217	316	26	30	40	35
Iowa	599	479	25.2%	572	455	NM	NM	6	8	22	15
Kansas	110	393	-72.0%	106	383	0	0	0	0	NM	11
Minnesota	616	575	7.2%	521	502	77	58	9	8	10	8
Missouri	364	604	-39.7%	210	332	140	258	11	13	3	2
Nebraska	NM	59	NM	NM	58	0	0	0	1	0	0
North Dakota	77	64	20.3%	75	63	0	0	0	0	2	1
South Dakota	82	NM	NM	82	NM	0	0	0	0	0	0
South Atlantic	31,809	32,156	-1.1%	26,300	26,778	4,986	4,823	91	108	432	448
Delaware	341	357	-4.5%	1	1	256	259	0	0	83	97
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15,321	16,880	-9.2%	14,602	16,078	586	663	2	1	131	137
Georgia	4,855	4,814	0.9%	3,605	3,583	1,198	1,173	0	0	52	58
Maryland	871	1,171	-25.6%	92	216	695	850	81	99	4	7
North Carolina	2,982	3,098	-3.8%	2,355	2,335	606	745	NM	NM	NM	12
South Carolina	2,172	2,166	0.3%	2,123	2,116	33	42	0	0	16	8
Virginia	5,009	3,537	41.6%	3,518	2,447	1,418	1,024	1	0	73	66
West Virginia	258	133	94.1%	5	3	195	67	0	0	59	63
East South Central	10,960	11,593	-5.5%	8,114	8,075	2,594	3,277	17	13	235	228
Alabama	4,106	4,952	-17.1%	1,439	1,970	2,558	2,875	0	0	108	107
Kentucky	1,282	1,095	17.1%	1,226	1,074	35	1	0	0	20	20
Mississippi	4,631	4,057	14.2%	4,593	3,620	0	399	0	0	38	37
Tennessee	942	1,489	-36.8%	855	1,411	1	1	17	13	69	64
West South Central	30,092	31,214	-3.6%	10,448	10,599	14,471	15,057	58	79	5,116	5,479
Arkansas	976	1,538	-36.6%	849	1,429	106	79	NM	NM	NM	27
Louisiana	5,779	6,021	-4.0%	3,362	3,478	390	424	15	11	2,011	2,109
Oklahoma	3,660	2,737	33.7%	2,279	1,652	1,339	1,055	0	0	41	30
Texas	19,677	20,919	-5.9%	3,957	4,041	12,636	13,500	39	65	3,045	3,313
Mountain	9,144	7,619	20.0%	7,302	6,202	1,709	1,280	27	35	107	102
Arizona	4,283	3,013	42.1%	3,335	2,176	937	826	11	11	0	0
Colorado	1,200	1,210	-0.9%	1,058	1,068	140	141	0	0	2	2
Idaho	153	67	126.6%	NM	NM	94	NM	3	3	NM	NM
Montana	NM	23	NM	NM	23	NM	NM	0	0	NM	NM
Nevada	1,901	1,654	15.0%	1,689	1,443	192	193	4	6	15	13
New Mexico	935	850	10.0%	588	760	339	81	8	8	0	1
Utah	566	727	-22.1%	542	684	6	6	1	6	18	31
Wyoming	81	74	9.4%	NM	25	0	0	0	0	64	49
Pacific Contiguous	5,440	4,557	19.4%	1,959	1,373	2,468	2,167	128	141	884	876
California	4,514	3,730	21.0%	1,315	944	2,279	1,787	123	137	797	862
Oregon	445	466	-4.4%	285	246	145	212	4	4	NM	NM
Washington	480	362	32.6%	359	184	NM	169	2	0	75	9
Pacific Noncontiguous	165	141	16.6%	159	135	0	0	0	0	6	6
Alaska	165	141	16.6%	159	135	0	0	0	0	6	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	116,236	116,236	0.0%	60,356	58,730	47,829	49,034	606	682	7,444	7,791

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	17,923	17,882	0.2%	NM	30	16,849	16,861	429	416	619	576
Connecticut	8,921	7,810	14.2%	12	15	8,482	7,401	159	152	268	242
Maine	523	582	-10.1%	0	0	326	418	13	12	185	152
Massachusetts	4,572	6,127	-25.4%	NM	NM	4,225	5,771	237	231	96	110
New Hampshire	1,068	768	39.0%	0	0	1,054	751	3	5	11	12
Rhode Island	2,838	2,594	9.4%	0	0	2,762	2,520	17	16	58	59
Vermont	1	1	-14.3%	0	0	0	0	0	1	0	0
Middle Atlantic	72,629	66,246	9.6%	3,378	3,444	67,843	61,339	413	444	996	1,019
New Jersey	10,875	14,824	-26.6%	NM	40	10,622	14,574	43	51	172	160
New York	17,597	16,685	5.5%	3,340	3,403	13,680	12,700	323	337	254	245
Pennsylvania	44,157	34,736	27.1%	0	1	43,541	34,065	46	56	570	614
East North Central	65,544	58,250	12.5%	22,423	18,674	40,833	37,390	578	580	1,711	1,606
Illinois	7,341	5,867	25.1%	1,065	315	5,888	5,172	150	141	238	239
Indiana	13,070	12,008	8.8%	5,489	4,754	6,747	6,444	70	71	765	738
Michigan	14,585	12,511	16.6%	4,558	3,464	9,499	8,522	253	262	275	263
Ohio	21,377	20,193	5.9%	2,961	3,179	18,240	16,835	72	80	103	99
Wisconsin	9,172	7,670	19.6%	8,350	6,961	459	416	33	26	330	267
West North Central	11,044	10,352	6.7%	9,048	8,746	1,486	1,154	132	138	377	315
Iowa	2,685	2,559	4.9%	2,437	2,321	NM	NM	38	40	210	195
Kansas	973	1,009	-3.6%	888	964	0	0	0	0	85	46
Minnesota	3,529	3,439	2.6%	3,003	3,046	429	290	40	47	56	56
Missouri	2,482	2,471	0.5%	1,355	1,546	1,058	862	52	49	18	14
Nebraska	349	205	69.9%	347	204	0	0	2	1	0	0
North Dakota	511	366	39.7%	503	362	0	0	0	0	8	4
South Dakota	515	303	70.0%	515	303	0	0	0	0	0	0
South Atlantic	155,552	143,378	8.5%	128,813	119,061	24,068	21,783	457	491	2,215	2,042
Delaware	1,543	1,570	-1.7%	0	1	1,073	1,127	0	0	469	442
District of Columbia	13	12	11.2%	0	0	0	0	13	12	0	0
Florida	72,607	67,513	7.5%	69,098	64,677	2,828	2,181	9	9	671	646
Georgia	22,061	20,861	5.8%	16,596	15,944	5,167	4,658	0	0	298	259
Maryland	5,571	6,169	-9.7%	1,272	1,792	3,899	3,914	381	427	19	37
North Carolina	16,643	16,255	2.4%	13,330	12,949	3,193	3,205	45	37	75	64
South Carolina	10,073	8,677	16.1%	9,826	8,338	169	289	0	0	78	50
Virginia	26,269	21,863	20.2%	18,682	15,306	7,224	6,235	9	7	355	315
West Virginia	772	458	68.8%	8	55	515	174	0	0	249	228
East South Central	51,949	50,523	2.8%	37,407	33,833	13,261	15,456	93	83	1,188	1,152
Alabama	19,794	21,138	-6.4%	6,660	7,487	12,587	13,110	0	0	547	540
Kentucky	5,059	5,365	-5.7%	4,892	5,149	63	118	0	0	104	98
Mississippi	21,174	17,830	18.8%	20,375	15,414	605	2,220	0	0	194	196
Tennessee	5,923	6,191	-4.3%	5,480	5,782	7	8	93	83	344	318
West South Central	144,338	136,135	6.0%	50,441	44,729	65,384	63,153	339	385	28,174	27,868
Arkansas	5,867	6,979	-15.9%	5,206	6,290	549	533	NM	NM	98	141
Louisiana	28,602	26,937	6.2%	16,748	14,143	1,299	1,646	78	66	10,478	11,081
Oklahoma	17,688	14,413	22.7%	11,076	9,077	6,411	5,181	0	0	200	154
Texas	92,180	87,806	5.0%	17,410	15,218	57,125	55,792	246	304	17,399	16,491
Mountain	44,643	39,339	13.5%	35,508	31,262	8,327	7,301	165	178	644	598
Arizona	17,215	14,668	17.4%	13,045	11,087	4,115	3,524	54	57	0	0
Colorado	7,279	6,362	14.4%	6,279	5,421	986	931	5	1	10	8
Idaho	1,525	886	72.1%	699	486	752	334	17	16	57	50
Montana	143	191	-25.1%	123	119	18	71	0	0	NM	2
Nevada	9,845	8,745	12.6%	8,852	7,756	868	858	23	27	102	103
New Mexico	4,832	4,312	12.1%	3,227	2,719	1,557	1,552	37	41	10	1
Utah	3,287	3,796	-13.4%	3,101	3,558	29	30	28	36	128	171
Wyoming	518	380	36.1%	182	117	1	1	0	0	335	263
Pacific Contiguous	42,113	39,351	7.0%	17,301	14,897	19,839	19,445	661	701	4,312	4,308
California	28,793	28,399	1.4%	9,332	9,271	14,735	14,216	636	676	4,091	4,236
Oregon	7,990	7,225	10.6%	4,115	3,388	3,802	3,787	20	18	54	32
Washington	5,330	3,727	43.0%	3,855	2,238	1,302	1,443	6	7	168	39
Pacific Noncontiguous	1,210	1,042	16.1%	1,184	1,011	0	0	0	0	26	31
Alaska	1,210	1,042	16.1%	1,184	1,011	0	0	0	0	26	31
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	606,946	562,499	7.9%	305,530	275,688	257,890	243,881	3,265	3,416	40,262	39,513

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.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2010-May 2020 (Thousand Megawatthours)

	Natural Gas					
Period	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	Total
Annual Factors						
2010	804,033	85,820	96,332	1,490	22	987,697
2011	828,554	85,392	97,578	2,125	40	1,013,689
2012	1,017,040	98,446	108,285	1,986	138	1,225,894
2013	947,172	91,272	83,746	2,328	317	1,124,836
2014	958,921	90,159	74,100	2,921	508	1,126,609
2015	1,130,617	108,655	89,796	3,760	654	1,333,482
2016	1,152,245	123,429	98,204	3,714	715	1,378,307
2017	1,094,952	111,732	84,520	4,370	869	1,296,442
2018	1,231,946	132,866	98,017	5,203	1,101	1,469,133
2019	1,330,364	135,654	109,602	6,043	152	1,581,815
Year 2018						
January	93,426	10,362	6,045	382	77	110,293
February	86,046	8,021	4,015	352	77	98,512
March	90,850	9,834	5,356	395	88	106,524
April	82,423	9,766	5,761	348	73	98,371
May	94,192	10,839	9,763	421	68	115,284
June	108,641	11,513	10,170	424	79	130,826
July	133,649	15,618	14,735	630	116	164,749
August	133,733	14,426	12,809	587	122	161,676
Sept	118,249	12,775	10,195	465	102	141,786
October	102,793	11,156	8,654	428	111	123,142
November	91,899	9,822	5,963	389	94	108,168
December	96,044	8,733	4,551	381	92	109,802
Year 2019						
January	105,687	7,722	5,542	346	10	119,307
February	97,877	7,398	5,327	394	9	111,005
March	98,275	7,716	6,558	387	10	112,945
April	86,329	9,029	7,278	358	12	103,006
May	96,563	10,004	9,267	389	13	116,236
June	115,478	10,748	10,300	455	13	136,994
July	139,491	18,801	15,231	802	16	174,341
August	141,757	18,269	15,578	835	19	176,458
Sept	123,665	13,981	12,455	636	16	150,753
October	109,426	13,292	10,391	543	15	133,667
November	101,265	10,088	5,910	489	9	117,762
December	114,550	8,609	5,764	410	9	129,342
Year 2020						
January	117,472	8,641	6,449	409	9	132,980
February	110,696	8,581	6,335	404	8	126,024
March	106,077	9,495	7,481	507	10	123,569
April	93,433	7,623	6,670	401	10	108,138
May	98,720	9,178	7,892	436	9	116,236

Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
The 'Natural Gas Other' category consists of power plants with prime movers of Fuel Cells and Other Prime Movers that consume natural gas.
Totals may not equal sum of components because of independent rounding.
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.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
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	41	49	-16.4%	0	0	0	0	0	0	41	49
New Jersey	14	12	19.1%	0	0	0	0	0	0	14	12
New York	0	2	-100.0%	0	0	0	0	0	0	0	2
Pennsylvania	27	36	-24.3%	0	0	0	0	0	0	27	36
East North Central	200	358	-44.0%	8	0	30	187	0	0	163	171
Illinois	21	0	NM	0	0	0	0	0	0	21	0
Indiana	131	159	-17.7%	0	0	0	0	0	0	131	159
Michigan	8	149	-94.9%	8	0	0	149	0	0	0	0
Ohio	41	50	-17.5%	0	0	30	38	0	0	11	12
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	3	4	-43.3%	0	0	0	0	0	0	3	4
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	3	4	-43.3%	0	0	0	0	0	0	3	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	14	19	-24.9%	0	0	0	0	0	0	14	19
Delaware	10	15	-34.7%	0	0	0	0	0	0	10	15
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-58.1%	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	5	5	5.3%	0	0	0	0	0	0	5	5
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
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	24.4%	0	0	0	0	0	0	1	1
West South Central	414	454	-8.9%	0	0	120	118	0	0	294	336
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	214	231	-7.5%	0	0	0	0	0	0	214	231
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	200	223	-10.3%	0	0	120	118	0	0	80	105
Mountain	35	25	35.6%	0	0	1	0	0	0	33	25
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	1	0	168.8%	0	0	1	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	1	-56.6%	0	0	0	0	0	0	0	1
Wyoming	33	24	37.7%	0	0	0	0	0	0	33	24
Pacific Contiguous	154	189	-18.7%	0	0	0	33	0	0	154	156
California	132	156	-15.8%	0	0	0	0	0	0	132	156
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	22	33	-32.4%	0	0	0	33	0	0	22	0
Pacific Noncontiguous	0	1	-100.0%	0	0	0	0	0	0	0	1
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	1	-100.0%	0	0	0	0	0	0	0	1
U.S. Total	862	1,101	-21.7%	8	0	151	338	0	0	704	764

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 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	331	311	6.4%	0	0	26	0	0	0	305	311
New Jersey	89	86	3.5%	0	0	0	0	0	0	89	86
New York	0	2	-100.0%	0	0	0	0	0	0	0	2
Pennsylvania	243	224	8.3%	0	0	26	0	0	0	217	224
East North Central	1,753	2,101	-16.6%	40	65	591	908	0	0	1,121	1,128
Illinois	132	100	31.9%	0	0	0	0	0	0	132	100
Indiana	933	953	-2.2%	0	0	0	0	0	0	933	953
Michigan	394	726	-45.7%	40	65	354	661	0	0	0	0
Ohio	294	322	-8.6%	0	0	237	247	0	0	57	75
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	17	21	-19.9%	0	0	0	0	0	0	17	21
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	17	21	-19.9%	0	0	0	0	0	0	17	21
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	78	83	-6.2%	0	0	0	0	0	0	78	83
Delaware	57	65	-12.3%	0	0	0	0	0	0	57	65
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-37.5%	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	20	18	16.0%	0	0	0	0	0	0	20	18
East South Central	7	7	6.5%	0	0	0	0	0	0	7	7
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5	4	11.6%	0	0	0	0	0	0	5	4
West South Central	2,092	2,291	-8.7%	0	0	654	741	0	0	1,437	1,550
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,005	1,099	-8.6%	0	0	0	0	0	0	1,005	1,099
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,087	1,192	-8.8%	0	0	654	741	0	0	433	452
Mountain	172	132	30.9%	0	0	6	3	0	0	167	129
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	6	3	117.8%	0	0	6	3	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	1	5	-90.1%	0	0	0	0	0	0	1	5
Wyoming	166	124	34.3%	0	0	0	0	0	0	166	124
Pacific Contiguous	765	700	9.2%	0	0	87	99	0	0	678	601
California	634	601	5.3%	0	0	0	0	0	0	634	601
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	131	99	32.7%	0	0	87	99	0	0	44	0
Pacific Noncontiguous	3	3	-7.2%	0	0	0	0	0	0	3	3
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	3	3	-7.2%	0	0	0	0	0	0	3	3
U.S. Total	5,217	5,648	-7.6%	40	65	1,364	1,750	0	0	3,813	3,834

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	1,768	2,267	-22.0%	0	0	1,768	2,267	0	0	0	0
Connecticut	912	1,035	-11.9%	0	0	912	1,035	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	302	-100.0%	0	0	0	302	0	0	0	0
New Hampshire	855	929	-7.9%	0	0	855	929	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	11,377	12,993	-12.4%	0	0	11,377	12,993	0	0	0	0
New Jersey	2,103	1,739	20.9%	0	0	2,103	1,739	0	0	0	0
New York	2,896	3,920	-26.1%	0	0	2,896	3,920	0	0	0	0
Pennsylvania	6,378	7,333	-13.0%	0	0	6,378	7,333	0	0	0	0
East North Central	13,067	13,879	-5.9%	1,384	2,148	11,683	11,731	0	0	0	0
Illinois	8,564	8,649	-1.0%	0	0	8,564	8,649	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,984	2,752	-27.9%	1,384	2,148	600	604	0	0	0	0
Ohio	1,619	1,620	0.0%	0	0	1,619	1,620	0	0	0	0
Wisconsin	900	859	4.8%	0	0	900	859	0	0	0	0
West North Central	4,056	3,326	22.0%	3,664	2,875	393	451	0	0	0	0
Iowa	393	451	-12.8%	0	0	393	451	0	0	0	0
Kansas	907	906	0.0%	907	906	0	0	0	0	0	0
Minnesota	1,261	1,060	19.0%	1,261	1,060	0	0	0	0	0	0
Missouri	907	320	183.2%	907	320	0	0	0	0	0	0
Nebraska	588	589	0.0%	588	589	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	16,786	17,721	-5.3%	15,446	16,386	1,340	1,334	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	2,760	1,967	40.3%	2,760	1,967	0	0	0	0	0	0
Georgia	3,070	2,921	5.1%	3,070	2,921	0	0	0	0	0	0
Maryland	1,340	1,334	0.4%	0	0	1,340	1,334	0	0	0	0
North Carolina	3,898	3,820	2.0%	3,898	3,820	0	0	0	0	0	0
South Carolina	3,636	4,973	-26.9%	3,636	4,973	0	0	0	0	0	0
Virginia	2,082	2,706	-23.1%	2,082	2,706	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	5,779	7,468	-22.6%	5,779	7,468	0	0	0	0	0	0
Alabama	3,920	3,912	0.2%	3,920	3,912	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	715	-99.9%	0	715	0	0	0	0	0	0
Tennessee	1,859	2,841	-34.6%	1,859	2,841	0	0	0	0	0	0
West South Central	6,351	4,890	29.9%	2,965	1,957	3,386	2,933	0	0	0	0
Arkansas	1,362	1,200	13.5%	1,362	1,200	0	0	0	0	0	0
Louisiana	1,602	757	111.7%	1,602	757	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,386	2,933	15.4%	0	0	3,386	2,933	0	0	0	0
Mountain	2,769	2,644	4.8%	2,769	2,644	0	0	0	0	0	0
Arizona	2,769	2,644	4.8%	2,769	2,644	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	2,386	1,937	23.2%	2,386	1,937	0	0	0	0	0	0
California	1,598	1,693	-5.6%	1,598	1,693	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	788	244	223.1%	788	244	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	64,338	67,124	-4.1%	34,392	35,416	29,946	31,708	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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	10,134	13,002	-22.1%	0	0	10,134	13,002	0	0	0	0
Connecticut	6,508	6,304	3.2%	0	0	6,508	6,304	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	2,177	-100.0%	0	0	0	2,177	0	0	0	0
New Hampshire	3,626	4,521	-19.8%	0	0	3,626	4,521	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	58,599	63,571	-7.8%	0	0	58,599	63,571	0	0	0	0
New Jersey	10,984	10,939	0.4%	0	0	10,984	10,939	0	0	0	0
New York	16,784	17,462	-3.9%	0	0	16,784	17,462	0	0	0	0
Pennsylvania	30,830	35,170	-12.3%	0	0	30,830	35,170	0	0	0	0
East North Central	65,198	64,740	0.7%	10,062	10,486	55,136	54,254	0	0	0	0
Illinois	40,960	41,135	-0.4%	0	0	40,960	41,135	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	13,029	13,325	-2.2%	10,062	10,486	2,967	2,839	0	0	0	0
Ohio	7,177	6,405	12.0%	0	0	7,177	6,405	0	0	0	0
Wisconsin	4,033	3,874	4.1%	0	0	4,033	3,874	0	0	0	0
West North Central	20,179	18,033	11.9%	18,032	15,892	2,147	2,140	0	0	0	0
Iowa	2,147	2,140	0.3%	0	0	2,147	2,140	0	0	0	0
Kansas	4,404	4,435	-0.7%	4,404	4,435	0	0	0	0	0	0
Minnesota	6,368	5,616	13.4%	6,368	5,616	0	0	0	0	0	0
Missouri	4,352	2,951	47.5%	4,352	2,951	0	0	0	0	0	0
Nebraska	2,908	2,890	0.6%	2,908	2,890	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	83,496	83,870	-0.4%	77,510	77,942	5,986	5,928	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	12,186	11,891	2.5%	12,186	11,891	0	0	0	0	0	0
Georgia	13,042	12,983	0.5%	13,042	12,983	0	0	0	0	0	0
Maryland	5,986	5,928	1.0%	0	0	5,986	5,928	0	0	0	0
North Carolina	17,655	16,361	7.9%	17,655	16,361	0	0	0	0	0	0
South Carolina	22,133	24,361	-9.1%	22,133	24,361	0	0	0	0	0	0
Virginia	12,493	12,345	1.2%	12,493	12,345	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	34,779	37,405	-7.0%	34,779	37,405	0	0	0	0	0	0
Alabama	18,443	17,324	6.5%	18,443	17,324	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,772	4,543	-61.0%	1,772	4,543	0	0	0	0	0	0
Tennessee	14,564	15,538	-6.3%	14,564	15,538	0	0	0	0	0	0
West South Central	30,105	26,643	13.0%	13,600	10,079	16,505	16,564	0	0	0	0
Arkansas	5,780	6,531	-11.5%	5,780	6,531	0	0	0	0	0	0
Louisiana	7,819	3,548	120.4%	7,819	3,548	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	16,505	16,564	-0.4%	0	0	16,505	16,564	0	0	0	0
Mountain	13,032	13,338	-2.3%	13,032	13,338	0	0	0	0	0	0
Arizona	13,032	13,338	-2.3%	13,032	13,338	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	12,138	10,597	14.5%	12,138	10,597	0	0	0	0	0	0
California	8,075	7,046	14.6%	8,075	7,046	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,063	3,551	14.4%	4,063	3,551	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	327,660	331,200	-1.1%	179,153	175,741	148,506	155,459	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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	707	659	7.4%	105	98	592	550	1	1	10	10
Connecticut	50	49	0.4%	3	5	46	44	0	0	0	0
Maine	303	283	6.8%	NM	0	292	274	0	0	10	10
Massachusetts	104	98	6.7%	25	24	78	74	1	1	0	0
New Hampshire	130	116	11.8%	35	32	95	85	0	0	0	0
Rhode Island	0	0	4.4%	0	0	0	0	0	0	0	0
Vermont	120	111	7.7%	41	37	79	74	0	0	0	0
Middle Atlantic	3,090	2,920	5.8%	2,284	2,166	799	747	1	1	6	6
New Jersey	3	5	-49.4%	0	0	3	5	0	0	0	0
New York	2,695	2,545	5.9%	2,272	2,153	415	385	1	1	6	6
Pennsylvania	393	370	6.2%	12	13	382	357	0	0	0	0
East North Central	475	435	9.2%	426	391	37	NM	0	0	13	NM
Illinois	16	9	73.8%	7	NM	9	7	0	0	0	0
Indiana	22	19	12.9%	22	19	0	0	0	0	0	0
Michigan	163	152	6.7%	151	140	NM	NM	0	0	NM	NM
Ohio	24	24	3.8%	22	22	NM	NM	0	0	0	0
Wisconsin	250	231	8.4%	224	208	NM	NM	0	0	12	NM
West North Central	1,531	1,406	8.9%	1,497	1,371	29	NM	0	0	5	10
Iowa	100	87	14.9%	99	86	1	1	0	0	0	0
Kansas	3	1	194.2%	0	0	3	1	0	0	0	0
Minnesota	108	103	4.5%	77	70	NM	NM	0	0	5	10
Missouri	88	82	7.2%	88	82	0	0	0	0	0	0
Nebraska	148	138	7.5%	148	138	0	0	0	0	0	0
North Dakota	369	329	12.2%	369	329	0	0	0	0	0	0
South Dakota	716	666	7.4%	716	666	0	0	0	0	0	0
South Atlantic	1,875	1,725	8.7%	1,505	1,334	302	328	2	2	65	62
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	19	20	-3.4%	19	20	0	0	0	0	0	0
Georgia	356	303	17.7%	352	300	NM	NM	0	0	NM	1
Maryland	235	265	-11.6%	0	0	235	265	0	0	0	0
North Carolina	618	564	9.6%	611	557	5	5	1	1	NM	NM
South Carolina	299	265	12.7%	293	259	6	NM	0	0	0	0
Virginia	178	149	19.6%	170	142	8	6	0	0	0	0
West Virginia	170	159	6.4%	60	56	47	43	0	0	63	60
East South Central	2,444	2,238	9.2%	2,444	2,237	NM	NM	0	0	0	0
Alabama	1,099	984	11.7%	1,099	984	0	0	0	0	0	0
Kentucky	388	360	7.6%	387	359	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	957	893	7.2%	957	893	0	0	0	0	0	0
West South Central	723	643	12.4%	610	533	114	110	NM	NM	0	0
Arkansas	305	269	13.5%	301	264	NM	NM	0	0	0	0
Louisiana	106	101	5.3%	0	0	106	101	0	0	0	0
Oklahoma	197	175	12.2%	197	175	0	0	0	0	0	0
Texas	115	98	17.5%	112	94	3	4	NM	NM	0	0
Mountain	3,588	3,422	4.9%	3,451	3,291	136	129	2	2	0	0
Arizona	602	551	9.4%	602	551	0	0	0	0	0	0
Colorado	180	190	-5.2%	155	165	NM	NM	2	2	0	0
Idaho	1,158	1,082	7.0%	1,070	998	88	84	0	0	0	0
Montana	1,200	1,116	7.6%	1,186	1,102	NM	NM	0	0	0	0
Nevada	235	275	-14.3%	228	270	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	97	93	3.8%	96	92	1	2	0	0	0	0
Wyoming	102	99	2.3%	100	97	2	2	0	0	0	0
Pacific Contiguous	14,856	16,441	-9.6%	14,630	16,111	224	328	NM	NM	0	0
California	2,777	4,842	-42.6%	2,621	4,577	155	262	NM	NM	0	0
Oregon	3,513	3,298	6.5%	3,488	3,273	NM	NM	0	0	0	0
Washington	8,566	8,300	3.2%	8,522	8,260	44	NM	0	0	0	0
Pacific Noncontiguous	177	173	2.7%	155	150	1	1	NM	NM	NM	NM
Alaska	174	167	4.1%	155	149	0	0	NM	NM	0	0
Hawaii	NM	NM	NM	0	1	1	1	0	0	NM	NM
U.S. Total	29,468	30,061	-2.0%	27,106	27,682	2,234	2,252	25	NM	102	102

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	3,549	3,395	4.5%	519	500	2,975	2,842	3	3	52	50
Connecticut	249	246	1.1%	19	25	230	221	0	0	0	0
Maine	1,506	1,431	5.3%	NM	0	1,453	1,381	0	0	52	50
Massachusetts	523	500	4.5%	128	125	392	372	3	3	0	0
New Hampshire	667	643	3.8%	170	158	497	485	0	0	0	0
Rhode Island	2	2	14.7%	0	0	2	2	0	0	0	0
Vermont	601	572	5.1%	202	192	399	380	0	0	0	0
Middle Atlantic	15,100	14,142	6.8%	11,066	10,302	3,998	3,806	4	4	32	30
New Jersey	11	19	-43.3%	0	0	11	19	0	0	0	0
New York	13,123	12,249	7.1%	11,004	10,235	2,082	1,980	4	4	32	30
Pennsylvania	1,966	1,873	5.0%	62	67	1,905	1,806	0	0	0	0
East North Central	1,882	1,816	3.6%	1,675	1,614	152	149	0	1	55	52
Illinois	66	53	24.8%	25	18	41	35	0	1	0	0
Indiana	111	108	3.5%	111	108	0	0	0	0	0	0
Michigan	614	600	2.4%	570	550	40	NM	0	0	NM	NM
Ohio	135	136	-0.7%	118	118	NM	NM	0	0	0	0
Wisconsin	955	919	3.9%	850	820	54	NM	0	0	51	48
West North Central	5,909	5,679	4.0%	5,760	5,535	114	105	0	0	35	38
Iowa	375	345	8.8%	372	341	4	4	0	0	0	0
Kansas	15	10	44.4%	0	0	15	10	0	0	0	0
Minnesota	421	405	4.0%	290	275	95	91	0	0	35	38
Missouri	461	471	-2.0%	461	471	0	0	0	0	0	0
Nebraska	557	539	3.2%	557	539	0	0	0	0	0	0
North Dakota	1,381	1,296	6.6%	1,381	1,296	0	0	0	0	0	0
South Dakota	2,699	2,613	3.3%	2,699	2,613	0	0	0	0	0	0
South Atlantic	9,672	9,435	2.5%	7,776	7,431	1,567	1,695	8	9	321	300
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	98	103	-4.0%	98	103	0	0	0	0	0	0
Georgia	1,937	1,811	7.0%	1,920	1,797	NM	NM	0	0	8	4
Maryland	1,234	1,367	-9.8%	0	0	1,234	1,367	0	0	0	0
North Carolina	3,190	3,048	4.6%	3,154	3,008	26	28	6	8	NM	NM
South Carolina	1,546	1,496	3.3%	1,508	1,458	36	37	2	1	0	0
Virginia	822	810	1.5%	796	781	27	29	0	0	0	0
West Virginia	844	799	5.6%	300	284	235	223	0	0	310	292
East South Central	12,402	11,765	5.4%	12,397	11,760	NM	NM	0	0	0	0
Alabama	5,862	5,522	6.2%	5,862	5,522	0	0	0	0	0	0
Kentucky	1,752	1,692	3.5%	1,747	1,688	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4,788	4,551	5.2%	4,788	4,551	0	0	0	0	0	0
West South Central	3,690	3,564	3.5%	3,127	3,028	562	536	NM	NM	0	0
Arkansas	1,548	1,492	3.7%	1,525	1,472	23	20	0	0	0	0
Louisiana	526	496	6.0%	0	0	526	496	0	0	0	0
Oklahoma	1,009	972	3.7%	1,009	972	0	0	0	0	0	0
Texas	608	604	0.6%	593	583	13	20	NM	NM	0	0
Mountain	13,775	13,708	0.5%	13,266	13,209	506	496	3	4	0	0
Arizona	2,625	2,415	8.7%	2,625	2,415	0	0	0	0	0	0
Colorado	690	740	-6.8%	602	652	85	85	3	4	0	0
Idaho	4,359	4,239	2.8%	4,027	3,910	332	329	0	0	0	0
Montana	4,518	4,375	3.3%	4,465	4,323	53	NM	0	0	0	0
Nevada	781	1,128	-30.7%	754	1,107	27	NM	0	0	0	0
New Mexico	56	63	-11.7%	56	63	0	0	0	0	0	0
Utah	368	366	0.4%	361	359	7	7	0	0	0	0
Wyoming	380	382	-0.6%	377	380	2	2	0	0	0	0
Pacific Contiguous	55,203	62,943	-12.3%	54,455	61,703	744	1,229	NM	NM	0	0
California	8,791	17,930	-51.0%	8,303	16,945	484	974	NM	NM	0	0
Oregon	14,480	14,528	-0.3%	14,384	14,433	95	96	0	0	0	0
Washington	31,933	30,485	4.7%	31,768	30,326	165	160	0	0	0	0
Pacific Noncontiguous	689	680	1.3%	589	587	15	7	73	71	13	16
Alaska	657	653	0.6%	584	582	0	0	73	71	0	0
Hawaii	32	27	17.3%	5	4	15	7	0	0	13	16
U.S. Total	121,871	127,126	-4.1%	110,629	115,668	10,638	10,870	96	102	508	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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	1,029	993	3.7%	63	70	863	817	11	12	92	93
Connecticut	94	90	3.7%	0	0	92	89	NM	NM	NM	NM
Maine	390	400	-2.3%	0	0	296	304	3	3	91	92
Massachusetts	265	219	20.9%	19	14	240	200	5	4	NM	NM
New Hampshire	134	166	-19.1%	7	26	125	137	2	3	0	0
Rhode Island	59	38	53.6%	0	0	59	38	1	1	0	0
Vermont	87	79	9.6%	37	30	50	49	0	0	0	0
Middle Atlantic	1,393	1,268	9.9%	9	8	1,278	1,155	59	54	48	51
New Jersey	237	184	29.0%	9	8	199	151	28	25	NM	NM
New York	643	601	7.1%	0	0	614	571	18	20	11	10
Pennsylvania	512	483	6.0%	0	0	464	434	12	9	36	40
East North Central	3,232	2,918	10.8%	432	352	2,655	2,424	15	16	130	125
Illinois	1,362	1,155	17.9%	10	10	1,351	1,145	NM	NM	0	0
Indiana	588	578	1.6%	47	38	533	534	2	2	5	5
Michigan	734	693	5.9%	257	205	421	434	4	5	52	49
Ohio	286	235	21.5%	NM	NM	257	209	2	2	25	22
Wisconsin	263	256	2.7%	117	98	93	102	6	7	48	49
West North Central	8,180	7,051	16.0%	2,691	2,365	5,445	4,623	12	8	32	54
Iowa	2,536	2,190	15.8%	1,817	1,542	712	641	4	3	4	4
Kansas	1,958	1,704	14.9%	164	161	1,793	1,541	NM	NM	0	0
Minnesota	1,240	1,198	3.5%	217	226	991	919	NM	3	28	50
Missouri	301	246	22.3%	3	3	296	243	2	0	0	0
Nebraska	647	610	6.1%	31	31	615	579	1	1	0	0
North Dakota	1,061	868	22.4%	392	335	670	532	NM	NM	0	0
South Dakota	436	236	85.1%	68	68	369	168	0	0	0	0
South Atlantic	4,284	3,476	23.2%	904	655	2,488	1,908	39	39	852	875
Delaware	12	10	17.7%	NM	NM	10	8	1	0	NM	NM
District of Columbia	7	6	14.8%	0	0	NM	NM	5	4	0	0
Florida	1,066	812	31.3%	682	424	214	220	4	4	166	163
Georgia	908	639	42.1%	35	32	534	283	NM	NM	340	324
Maryland	144	142	1.9%	NM	NM	139	129	4	4	0	9
North Carolina	1,177	1,000	17.7%	61	39	994	842	13	11	110	107
South Carolina	383	275	39.5%	9	33	247	102	0	0	128	140
Virginia	407	441	-7.9%	116	124	169	172	13	14	109	131
West Virginia	179	151	18.6%	0	0	179	151	0	0	0	0
East South Central	652	628	3.8%	15	14	144	136	NM	NM	493	477
Alabama	337	330	1.9%	3	3	44	55	0	0	289	272
Kentucky	40	39	3.3%	11	11	1	NM	0	0	28	27
Mississippi	172	140	22.9%	0	0	51	36	0	0	122	105
Tennessee	103	119	-13.4%	NM	NM	48	44	NM	NM	54	74
West South Central	11,858	11,054	7.3%	136	157	11,378	10,526	8	6	336	365
Arkansas	102	138	-25.7%	NM	NM	28	26	3	0	71	111
Louisiana	175	158	10.6%	NM	NM	6	6	0	0	168	152
Oklahoma	2,351	2,527	-7.0%	109	131	2,218	2,368	0	0	24	28
Texas	9,230	8,231	12.1%	26	26	9,126	8,126	5	5	73	74
Mountain	5,120	4,422	15.8%	627	510	4,405	3,826	53	49	35	37
Arizona	703	609	15.4%	80	67	621	541	NM	NM	0	0
Colorado	1,348	1,057	27.5%	261	192	1,083	863	3	NM	0	0
Idaho	333	330	1.1%	14	14	285	279	1	1	33	35
Montana	221	187	18.1%	20	18	199	167	0	0	2	1
Nevada	945	824	14.7%	22	4	876	776	46	44	0	0
New Mexico	831	735	13.0%	42	29	789	706	NM	NM	0	0
Utah	381	330	15.6%	20	19	360	311	1	0	0	0
Wyoming	359	351	2.3%	167	166	191	184	0	0	0	0
Pacific Contiguous	8,095	7,478	8.3%	750	710	7,055	6,514	79	57	211	197
California	6,353	5,875	8.1%	212	203	5,998	5,554	77	54	66	64
Oregon	914	813	12.5%	131	129	731	642	2	2	49	39
Washington	828	790	4.9%	407	378	325	318	0	NM	96	93
Pacific Noncontiguous	153	132	15.9%	19	17	117	96	17	19	0	NM
Alaska	16	16	2.0%	8	8	NM	5	3	3	0	NM
Hawaii	137	116	17.9%	11	9	112	91	13	16	0	0
U.S. Total	43,996	39,419	11.6%	5,646	4,859	35,828	32,025	293	261	2,229	2,274

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	4,951	4,915	0.7%	292	343	4,124	4,034	62	75	473	464
Connecticut	415	388	6.9%	1	1	411	384	3	NM	NM	NM
Maine	2,045	2,145	-4.7%	0	0	1,561	1,664	15	21	469	461
Massachusetts	1,105	987	11.9%	78	62	997	895	25	27	4	NM
New Hampshire	704	779	-9.6%	21	102	669	658	14	19	0	0
Rhode Island	257	207	23.7%	0	0	253	203	3	4	0	0
Vermont	426	408	4.3%	192	178	233	229	1	1	0	0
Middle Atlantic	7,014	6,443	8.9%	31	29	6,446	5,880	268	255	269	278
New Jersey	909	798	13.9%	31	29	753	655	121	111	3	3
New York	3,334	3,137	6.3%	0	0	3,177	2,978	86	86	71	73
Pennsylvania	2,772	2,508	10.5%	0	0	2,516	2,248	60	59	195	202
East North Central	17,517	16,231	7.9%	2,063	1,789	14,739	13,692	73	86	642	665
Illinois	7,572	6,626	14.3%	50	47	7,519	6,575	4	NM	0	0
Indiana	3,286	3,252	1.0%	201	169	3,049	3,049	10	9	26	25
Michigan	3,866	3,707	4.3%	1,241	1,057	2,364	2,338	20	32	242	280
Ohio	1,408	1,335	5.4%	9	8	1,252	1,200	8	7	140	120
Wisconsin	1,385	1,311	5.6%	562	508	556	530	32	34	235	240
West North Central	43,087	37,136	16.0%	14,326	12,657	28,422	24,120	64	75	275	284
Iowa	13,609	11,784	15.5%	9,667	8,294	3,905	3,451	18	19	20	20
Kansas	9,879	8,790	12.4%	796	806	9,076	7,978	NM	NM	0	0
Minnesota	6,520	5,955	9.5%	1,196	1,175	5,052	4,493	19	26	253	262
Missouri	1,451	1,367	6.1%	13	12	1,424	1,338	13	17	1	1
Nebraska	3,666	3,195	14.7%	168	162	3,491	3,027	6	6	0	0
North Dakota	5,735	4,736	21.1%	2,107	1,829	3,625	2,905	NM	NM	NM	NM
South Dakota	2,227	1,308	70.2%	379	380	1,848	929	0	0	0	0
South Atlantic	18,026	15,164	18.9%	3,593	2,709	9,959	8,046	174	170	4,300	4,240
Delaware	49	44	10.7%	3	2	39	35	3	3	5	5
District of Columbia	32	28	16.2%	0	0	7	5	25	23	0	0
Florida	4,382	3,567	22.9%	2,514	1,726	1,041	1,036	22	21	805	785
Georgia	3,747	2,798	33.9%	128	122	1,945	1,057	NM	NM	1,674	1,618
Maryland	618	619	-0.2%	3	3	598	551	17	17	0	49
North Carolina	4,728	4,095	15.5%	229	152	3,913	3,395	46	45	540	503
South Carolina	1,576	1,292	22.0%	127	180	775	431	0	0	673	680
Virginia	1,987	1,920	3.5%	589	523	735	735	60	61	603	601
West Virginia	907	802	13.2%	0	0	907	802	0	0	0	0
East South Central	3,100	2,944	5.3%	65	62	530	520	NM	NM	2,504	2,361
Alabama	1,607	1,566	2.6%	12	12	157	219	0	0	1,438	1,335
Kentucky	198	184	7.8%	51	49	4	4	0	0	143	131
Mississippi	766	663	15.4%	0	0	184	133	0	0	582	531
Tennessee	530	531	-0.2%	NM	NM	185	164	NM	NM	342	364
West South Central	57,353	51,947	10.4%	739	747	54,869	49,207	36	38	1,709	1,955
Arkansas	494	685	-27.9%	NM	NM	105	107	10	2	378	576
Louisiana	867	922	-5.9%	NM	NM	32	31	0	0	834	890
Oklahoma	12,867	12,386	3.9%	608	620	12,126	11,645	0	0	133	121
Texas	43,125	37,955	13.6%	130	126	42,606	37,425	25	35	364	368
Mountain	22,707	20,468	10.9%	2,733	2,570	19,549	17,502	254	236	171	160
Arizona	2,647	2,348	12.7%	282	262	2,360	2,082	5	5	0	0
Colorado	5,779	5,218	10.8%	1,003	993	4,764	4,215	12	8	1	1
Idaho	1,713	1,630	5.1%	81	77	1,468	1,400	4	3	160	150
Montana	1,182	1,042	13.4%	112	101	1,061	934	0	0	9	8
Nevada	3,941	3,562	10.6%	49	15	3,665	3,331	226	215	1	1
New Mexico	3,971	3,403	16.7%	149	108	3,820	3,294	NM	NM	0	0
Utah	1,461	1,384	5.5%	91	94	1,364	1,287	6	4	0	0
Wyoming	2,014	1,882	7.0%	966	921	1,047	960	0	0	0	0
Pacific Contiguous	34,928	32,228	8.4%	3,744	3,140	29,769	27,743	378	348	1,037	996
California	25,597	24,617	4.0%	830	832	24,104	23,158	361	332	301	295
Oregon	4,732	3,521	34.4%	634	403	3,831	2,881	12	12	255	225
Washington	4,599	4,091	12.4%	2,280	1,906	1,834	1,704	4	5	481	476
Pacific Noncontiguous	694	624	11.3%	93	91	519	441	82	91	NM	NM
Alaska	91	85	6.9%	48	44	26	25	16	15	NM	NM
Hawaii	603	539	12.0%	45	47	492	416	65	75	0	0
U.S. Total	209,379	188,102	11.3%	27,680	24,138	168,926	151,185	1,391	1,375	11,382	11,405

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	-34	-26	31.0%	0	0	-34	-26	0	0	0	0
Connecticut	1	2	-73.8%	0	0	1	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-34	-28	23.7%	0	0	-34	-28	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	-83	-58	42.4%	-23	-21	-61	-37	0	0	0	0
New Jersey	-6	-6	1.5%	-6	-6	0	0	0	0	0	0
New York	-17	-15	9.3%	-17	-15	0	0	0	0	0	0
Pennsylvania	-61	-37	62.3%	0	0	-61	-37	0	0	0	0
East North Central	-56	-59	-5.1%	-56	-59	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	-56	-59	-5.1%	-56	-59	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	2	56	-97.1%	2	56	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	2	56	-97.1%	2	56	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	-135	-229	-40.9%	-135	-229	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	-9	-24	-60.9%	-9	-24	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	-48	-104	-54.2%	-48	-104	0	0	0	0	0	0
Virginia	-79	-102	-22.7%	-79	-102	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-72	-53	36.9%	-72	-53	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	-72	-53	36.9%	-72	-53	0	0	0	0	0	0
West South Central	1	3	-68.1%	1	3	0	0	0	0	0	0
Arkansas	12	10	26.9%	12	10	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-11	-6	75.1%	-11	-6	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	7	-13	-156.2%	7	-13	0	0	0	0	0	0
Arizona	12	4	225.3%	12	4	0	0	0	0	0	0
Colorado	-4	-17	-72.9%	-4	-17	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	3	10	-68.0%	3	10	0	0	0	0	0	0
California	2	10	-75.2%	2	10	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	0	101.0%	1	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	-367	-368	-0.4%	-273	-305	-94	-63	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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	-151	-176	-13.9%	0	0	-151	-176	0	0	0	0
Connecticut	-1	2	-130.1%	0	0	-1	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-151	-178	-15.0%	0	0	-151	-178	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	-400	-383	4.2%	-167	-165	-233	-219	0	0	0	0
New Jersey	-81	-36	125.3%	-81	-36	0	0	0	0	0	0
New York	-86	-129	-33.4%	-86	-129	0	0	0	0	0	0
Pennsylvania	-233	-219	6.5%	0	0	-233	-219	0	0	0	0
East North Central	-269	-239	13.0%	-269	-239	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	-269	-239	13.0%	-269	-239	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	29	244	-88.0%	29	244	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	29	244	-88.0%	29	244	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	-462	-556	-16.9%	-462	-556	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	24	88	-72.9%	24	88	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	-198	-308	-35.7%	-198	-308	0	0	0	0	0	0
Virginia	-287	-336	-14.4%	-287	-336	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-260	-222	17.1%	-260	-222	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	-260	-222	17.1%	-260	-222	0	0	0	0	0	0
West South Central	4	0	767.3%	4	0	0	0	0	0	0	0
Arkansas	45	38	19.5%	45	38	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-41	-37	11.0%	-41	-37	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-40	-119	-66.8%	-40	-119	0	0	0	0	0	0
Arizona	14	-42	-133.4%	14	-42	0	0	0	0	0	0
Colorado	-54	-77	-30.3%	-54	-77	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	-149	-142	4.8%	-149	-142	0	0	0	0	0	0
California	-154	-144	6.9%	-154	-144	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	5	2	166.5%	5	2	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	-1,698	-1,592	6.6%	-1,313	-1,197	-384	-395	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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	160	155	3.0%	0	0	146	142	4	4	10	9
Connecticut	53	55	-2.5%	0	0	53	55	0	0	0	0
Maine	24	30	-21.6%	0	0	10	17	4	4	10	9
Massachusetts	79	68	16.5%	0	0	79	68	0	0	0	0
New Hampshire	4	2	54.7%	0	0	4	2	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	212	208	2.0%	0	0	167	161	43	41	2	6
New Jersey	50	51	-2.4%	0	0	35	33	13	13	2	6
New York	87	79	9.9%	0	0	68	58	19	21	0	0
Pennsylvania	75	78	-3.2%	0	0	64	71	11	7	0	0
East North Central	80	77	3.6%	2	2	7	11	7	7	65	57
Illinois	19	23	-18.1%	0	0	-1	-1	0	0	21	24
Indiana	42	30	38.2%	0	0	0	0	2	2	40	28
Michigan	14	19	-23.4%	0	0	8	12	5	5	1	1
Ohio	1	1	5.1%	0	0	0	0	0	0	1	1
Wisconsin	4	4	-7.2%	2	2	0	0	0	0	NM	NM
West North Central	36	37	-4.0%	18	16	11	14	3	NM	5	5
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	-1.7%	0	0	0	0	0	0	0	0
Minnesota	31	32	-5.2%	13	12	11	14	3	NM	4	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	5	4	4.3%	5	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	383	418	-8.4%	0	0	223	249	14	16	146	153
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	250	273	-8.4%	0	0	133	151	0	0	117	122
Georgia	8	7	7.5%	0	0	0	0	0	0	8	7
Maryland	30	34	-10.9%	0	0	30	34	0	0	0	0
North Carolina	46	53	-13.9%	0	0	28	32	0	0	18	22
South Carolina	4	2	77.9%	0	0	1	0	0	0	3	2
Virginia	47	50	-4.7%	0	0	33	33	14	16	0	0
West Virginia	-1	-1	132.2%	0	0	-1	-1	0	0	0	0
East South Central	7	7	2.8%	6	6	0	0	0	0	1	1
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	6	6	1.4%	6	6	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	17.9%	0	0	0	0	0	0	1	1
West South Central	79	70	12.7%	0	0	6	8	0	0	73	61
Arkansas	0	0	239.8%	0	0	0	0	0	0	0	0
Louisiana	47	37	27.9%	0	0	0	0	0	0	47	37
Oklahoma	1	1	102.2%	0	0	0	0	0	0	1	1
Texas	30	32	-6.6%	0	0	6	8	0	0	25	24
Mountain	36	58	-38.5%	8	7	11	25	0	0	17	26
Arizona	0	0	-109.0%	0	0	0	0	0	0	0	0
Colorado	5	6	-16.6%	0	0	1	2	0	0	4	4
Idaho	5	5	7.0%	0	0	0	0	0	0	5	5
Montana	10	23	-57.8%	0	0	10	23	0	0	0	0
Nevada	2	2	29.8%	2	2	0	0	0	0	0	0
New Mexico	0	0	-61.6%	0	0	0	0	0	0	0	0
Utah	5	20	-74.8%	5	5	0	0	0	0	0	15
Wyoming	8	2	268.8%	0	0	0	0	0	0	8	2
Pacific Contiguous	69	60	14.6%	-1	-1	18	21	0	0	52	40
California	61	52	16.8%	-1	-1	10	13	0	0	52	40
Oregon	3	4	-21.6%	0	0	3	4	0	0	0	0
Washington	5	4	26.4%	0	0	5	4	0	0	0	0
Pacific Noncontiguous	27	34	-20.6%	10	14	0	0	16	20	0	0
Alaska	0	0	4.5%	0	0	0	0	0	0	0	0
Hawaii	27	34	-20.4%	11	14	0	0	16	20	0	0
U.S. Total	1,088	1,124	-3.2%	42	44	587	632	88	90	370	358

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	791	776	1.9%	0	0	719	697	19	25	53	54
Connecticut	244	234	4.4%	0	0	244	234	0	0	0	0
Maine	135	146	-7.6%	0	0	63	67	19	25	53	54
Massachusetts	390	375	3.9%	0	0	390	375	0	0	0	0
New Hampshire	22	21	4.5%	0	0	22	21	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	1,026	990	3.7%	0	0	807	769	210	202	9	20
New Jersey	244	243	0.5%	0	0	166	160	69	64	9	20
New York	412	356	15.8%	0	0	320	263	92	92	0	0
Pennsylvania	370	391	-5.4%	0	0	321	346	49	46	0	0
East North Central	355	357	-0.6%	8	8	33	43	33	47	279	259
Illinois	82	104	-21.1%	0	0	-6	-5	0	0	88	109
Indiana	182	134	35.5%	0	0	0	0	10	9	172	125
Michigan	69	95	-27.0%	0	0	39	48	23	38	7	9
Ohio	5	5	-2.6%	0	-1	0	0	0	0	5	5
Wisconsin	17	19	-11.2%	9	8	0	0	0	0	8	11
West North Central	175	164	7.1%	77	79	61	54	15	7	22	24
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	2	2	-0.5%	0	0	0	0	0	0	2	2
Minnesota	150	140	7.4%	54	57	61	54	15	7	20	22
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	23	22	6.1%	23	22	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,820	1,930	-5.7%	-1	-1	1,101	1,111	67	69	653	751
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	1,229	1,315	-6.5%	-1	-1	714	721	0	0	516	594
Georgia	35	39	-10.0%	0	0	0	0	0	0	35	39
Maryland	95	103	-7.9%	0	0	95	103	0	0	0	0
North Carolina	218	235	-7.4%	0	0	130	131	0	0	88	104
South Carolina	17	16	9.6%	0	0	3	2	0	0	14	14
Virginia	233	226	3.3%	0	0	166	157	67	69	0	0
West Virginia	-7	-3	130.2%	0	0	-7	-3	0	0	0	0
East South Central	27	18	51.1%	24	15	0	0	0	0	3	3
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	24	15	56.6%	24	15	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3	3	19.5%	0	0	0	0	0	0	3	3
West South Central	345	407	-15.3%	0	0	19	37	0	0	327	370
Arkansas	2	2	24.6%	0	0	0	0	0	0	3	2
Louisiana	183	194	-5.6%	0	0	0	0	0	0	183	194
Oklahoma	2	3	-21.6%	0	0	0	1	0	0	2	2
Texas	157	208	-24.7%	0	0	19	36	0	0	138	172
Mountain	271	297	-8.7%	39	33	107	129	0	0	125	135
Arizona	-2	-2	-16.0%	0	0	-2	-2	0	0	0	0
Colorado	27	24	14.0%	0	0	8	6	0	0	19	18
Idaho	30	29	1.0%	0	0	0	0	0	0	30	29
Montana	100	125	-20.0%	0	0	100	125	0	0	0	0
Nevada	13	8	64.3%	13	8	0	0	0	0	0	0
New Mexico	-1	0	28.2%	-1	0	0	0	0	0	0	0
Utah	66	84	-20.7%	26	25	0	0	0	0	40	58
Wyoming	37	29	26.3%	0	0	0	0	0	0	37	29
Pacific Contiguous	318	331	-4.0%	-5	-7	116	103	0	0	207	235
California	271	295	-7.9%	-5	-6	69	66	0	0	207	235
Oregon	18	9	104.4%	0	0	18	9	0	0	0	0
Washington	29	28	3.3%	0	0	29	28	0	0	0	0
Pacific Noncontiguous	139	153	-9.2%	59	61	0	0	80	92	0	0
Alaska	-1	-1	-6.9%	-1	-1	0	0	0	0	0	0
Hawaii	140	154	-9.2%	60	62	0	0	80	92	0	0
U.S. Total	5,267	5,423	-2.9%	202	188	2,963	2,942	424	442	1,679	1,851

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	330	288	14.4%	20	19	307	267	3	2	NM	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	210	184	14.3%	0	0	210	184	0	0	0	0
Massachusetts	20	18	9.9%	5	5	13	12	NM	NM	NM	NM
New Hampshire	43	34	26.3%	0	0	43	34	0	0	0	0
Rhode Island	21	19	10.6%	0	0	21	19	1	1	0	0
Vermont	34	32	7.1%	15	14	19	17	0	0	0	0
Middle Atlantic	696	682	2.1%	0	0	695	681	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	368	385	-4.4%	0	0	367	384	NM	NM	NM	NM
Pennsylvania	326	295	10.5%	0	0	326	295	0	0	0	0
East North Central	2,679	2,402	11.5%	344	273	2,326	2,120	NM	2	7	6
Illinois	1,319	1,113	18.4%	NM	1	1,317	1,112	NM	NM	0	0
Indiana	507	511	-0.7%	0	0	507	511	0	0	0	0
Michigan	531	474	12.0%	246	197	285	278	0	0	0	0
Ohio	173	164	5.6%	NM	NM	166	157	0	0	6	6
Wisconsin	149	139	6.9%	95	74	51	63	NM	NM	1	1
West North Central	7,832	6,737	16.2%	2,661	2,333	5,167	4,400	NM	4	0	0
Iowa	2,516	2,171	15.8%	1,815	1,540	700	631	0	0	0	0
Kansas	1,945	1,696	14.7%	164	161	1,780	1,534	NM	NM	0	0
Minnesota	955	936	2.0%	199	205	755	729	NM	2	0	0
Missouri	282	230	22.9%	0	0	282	230	0	0	0	0
Nebraska	636	600	6.0%	24	24	612	576	0	0	0	0
North Dakota	1,061	868	22.4%	392	335	670	532	NM	NM	0	0
South Dakota	436	235	85.1%	68	68	368	167	0	0	0	0
South Atlantic	282	239	18.2%	0	0	282	238	1	0	0	0
Delaware	1	0	24.9%	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	47	47	0.3%	0	0	47	47	0	0	0	0
North Carolina	55	40	37.8%	0	0	55	40	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	179	151	18.6%	0	0	179	151	0	0	0	0
East South Central	NM	4	NM	0	0	NM	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	NM	4	NM	0	0	NM	4	0	0	0	0
West South Central	10,716	10,209	5.0%	127	150	10,583	10,053	5	5	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,318	2,491	-6.9%	102	125	2,216	2,366	0	0	0	0
Texas	8,398	7,718	8.8%	24	25	8,367	7,687	5	5	NM	NM
Mountain	2,749	2,420	13.6%	461	389	2,287	2,029	NM	NM	0	0
Arizona	52	62	-16.1%	0	0	52	62	0	0	0	0
Colorado	1,163	923	26.1%	261	191	902	731	NM	NM	0	0
Idaho	222	219	1.2%	13	13	209	206	0	0	0	0
Montana	215	182	17.9%	20	18	195	164	0	0	0	0
Nevada	30	35	-15.2%	0	0	30	35	0	0	0	0
New Mexico	647	593	9.1%	0	0	647	593	NM	NM	0	0
Utah	81	73	10.9%	0	0	81	73	0	0	0	0
Wyoming	338	332	1.8%	167	166	170	165	0	0	0	0
Pacific Contiguous	2,827	2,923	-3.3%	590	567	2,236	2,355	1	1	1	1
California	1,427	1,621	-11.9%	83	97	1,343	1,522	1	1	1	1
Oregon	707	651	8.6%	126	124	581	527	0	0	0	0
Washington	693	651	6.5%	382	345	312	306	0	0	0	0
Pacific Noncontiguous	66	70	-6.2%	8	8	57	62	0	0	0	0
Alaska	13	13	1.9%	8	8	NM	5	0	0	0	0
Hawaii	53	57	-8.0%	0	0	53	57	0	0	0	0
U.S. Total	28,180	25,973	8.5%	4,211	3,739	23,945	22,209	16	16	9	10

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	1,801	1,668	7.9%	112	102	1,672	1,549	15	16	NM	NM
Connecticut	6	NM	NM	0	0	6	NM	0	0	0	0
Maine	1,143	1,106	3.3%	0	0	1,143	1,106	0	0	0	0
Massachusetts	115	101	14.6%	29	26	73	61	12	12	NM	NM
New Hampshire	241	179	34.6%	0	0	241	179	0	0	0	0
Rhode Island	111	106	5.2%	0	0	108	102	3	4	0	0
Vermont	183	170	7.6%	83	76	100	94	0	0	0	0
Middle Atlantic	3,989	3,784	5.4%	0	0	3,985	3,781	NM	NM	NM	NM
New Jersey	11	10	8.5%	0	0	11	10	0	0	0	0
New York	2,149	2,182	-1.5%	0	0	2,145	2,179	NM	NM	NM	NM
Pennsylvania	1,829	1,592	14.9%	0	0	1,829	1,592	0	0	0	0
East North Central	14,964	13,747	8.8%	1,678	1,420	13,235	12,279	14	12	37	35
Illinois	7,366	6,429	14.6%	6	6	7,358	6,421	NM	NM	0	0
Indiana	2,950	2,955	-0.2%	0	0	2,950	2,955	0	0	0	0
Michigan	2,881	2,631	9.5%	1,206	1,023	1,675	1,608	0	0	0	0
Ohio	938	992	-5.5%	6	NM	896	954	2	2	34	31
Wisconsin	829	739	12.1%	460	387	356	341	10	NM	3	4
West North Central	41,567	35,791	16.1%	14,184	12,505	27,361	23,265	22	21	0	0
Iowa	13,511	11,691	15.6%	9,658	8,285	3,851	3,404	2	2	0	0
Kansas	9,835	8,759	12.3%	795	805	9,033	7,947	NM	NM	0	0
Minnesota	5,277	4,868	8.4%	1,110	1,077	4,155	3,780	12	11	0	0
Missouri	1,369	1,284	6.6%	0	0	1,369	1,284	0	0	0	0
Nebraska	3,616	3,147	14.9%	135	130	3,481	3,017	0	0	0	0
North Dakota	5,734	4,734	21.1%	2,107	1,829	3,625	2,905	NM	NM	0	0
South Dakota	2,226	1,307	70.3%	379	380	1,847	928	0	0	0	0
South Atlantic	1,474	1,319	11.8%	0	0	1,472	1,316	3	3	0	0
Delaware	3	3	1.2%	0	0	0	0	3	3	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	266	259	2.8%	0	0	266	259	0	0	0	0
North Carolina	298	255	16.7%	0	0	298	255	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	907	802	13.2%	0	0	907	802	0	0	0	0
East South Central	23	18	29.1%	0	0	23	18	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	23	18	29.1%	0	0	23	18	0	0	0	0
West South Central	52,900	48,033	10.1%	706	719	52,166	47,285	23	23	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	12,701	12,233	3.8%	583	596	12,118	11,637	0	0	0	0
Texas	40,199	35,800	12.3%	122	123	40,048	35,648	23	23	NM	NM
Mountain	13,525	12,330	9.7%	2,153	2,084	11,369	10,241	NM	NM	1	1
Arizona	239	255	-6.1%	0	0	239	255	0	0	0	0
Colorado	5,135	4,690	9.5%	999	991	4,134	3,696	NM	NM	1	1
Idaho	1,257	1,190	5.6%	75	71	1,182	1,119	0	0	0	0
Montana	1,159	1,022	13.5%	112	101	1,048	921	0	0	0	0
Nevada	139	148	-5.7%	0	0	139	148	0	0	0	0
New Mexico	3,316	2,850	16.3%	0	0	3,314	2,849	NM	NM	0	0
Utah	342	361	-5.2%	0	0	342	361	0	0	0	0
Wyoming	1,937	1,815	6.7%	966	921	971	894	0	0	0	0
Pacific Contiguous	14,262	12,899	10.6%	3,066	2,452	11,192	10,442	3	3	2	2
California	6,488	6,707	-3.3%	309	316	6,174	6,386	3	3	2	2
Oregon	3,856	2,791	38.1%	609	378	3,247	2,413	0	0	0	0
Washington	3,918	3,401	15.2%	2,147	1,758	1,770	1,643	0	0	0	0
Pacific Noncontiguous	331	333	-0.4%	48	44	283	289	0	0	0	0
Alaska	74	69	7.7%	48	44	26	25	0	0	0	0
Hawaii	257	264	-2.5%	0	0	257	264	0	0	0	0
U.S. Total	144,836	129,922	11.5%	21,946	19,327	122,757	110,464	83	83	49	47

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	472	543	-13.1%	22	38	352	405	7	9	91	92
Connecticut	65	72	-9.7%	0	0	65	72	0	0	0	0
Maine	179	214	-16.6%	0	0	85	119	3	3	91	92
Massachusetts	88	82	8.1%	0	0	86	79	2	2	0	0
New Hampshire	91	132	-30.9%	7	26	82	103	2	3	0	0
Rhode Island	20	13	53.0%	0	0	20	13	0	0	0	0
Vermont	29	31	-3.8%	15	12	15	19	0	0	0	0
Middle Atlantic	400	400	0.0%	0	0	317	314	39	38	45	48
New Jersey	69	65	5.8%	0	0	58	54	11	11	0	0
New York	161	155	4.0%	0	0	136	128	16	18	9	9
Pennsylvania	170	180	-5.6%	0	0	123	131	11	9	35	39
East North Central	416	441	-5.5%	54	56	229	255	10	12	123	119
Illinois	36	36	-0.1%	9	8	27	27	0	0	0	0
Indiana	35	34	3.5%	24	24	4	4	2	2	5	5
Michigan	183	202	-9.4%	0	0	127	149	4	4	52	49
Ohio	57	56	1.4%	0	0	37	39	1	1	19	16
Wisconsin	105	112	-6.5%	22	24	33	36	3	5	47	48
West North Central	118	141	-16.1%	28	30	51	53	8	4	32	54
Iowa	18	17	10.9%	NM	NM	10	9	3	2	4	4
Kansas	5	5	0.4%	0	0	5	5	0	0	0	0
Minnesota	80	107	-24.9%	18	21	33	35	1	NM	28	50
Missouri	7	5	29.8%	2	2	3	3	2	0	0	0
Nebraska	7	7	6.7%	6	6	0	0	1	1	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	1,565	1,659	-5.7%	106	212	585	550	22	24	852	874
Delaware	4	4	3.7%	0	0	3	3	0	0	NM	NM
District of Columbia	5	4	8.0%	0	0	0	0	5	4	0	0
Florida	359	405	-11.5%	43	75	147	165	3	3	166	163
Georgia	511	427	19.8%	0	0	171	102	0	0	340	324
Maryland	32	44	-26.8%	0	0	30	33	2	2	0	9
North Carolina	193	220	-12.3%	0	0	83	112	NM	NM	110	107
South Carolina	189	203	-6.9%	7	33	55	31	0	0	127	140
Virginia	272	351	-22.6%	55	104	95	103	13	14	109	131
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	510	506	0.7%	7	7	11	22	0	0	492	477
Alabama	292	287	1.9%	0	0	3	15	0	0	289	272
Kentucky	36	35	2.7%	7	7	1	NM	0	0	28	27
Mississippi	122	106	16.0%	0	0	NM	NM	0	0	122	105
Tennessee	60	79	-24.8%	0	0	6	6	0	0	54	73
West South Central	382	410	-6.9%	0	0	46	47	0	0	335	363
Arkansas	77	118	-34.1%	0	0	6	6	0	0	71	111
Louisiana	175	158	10.6%	0	0	6	6	0	0	168	152
Oklahoma	25	29	-14.0%	0	0	2	NM	0	0	24	28
Texas	104	105	-0.8%	0	0	33	33	0	0	71	72
Mountain	86	93	-8.2%	NM	NM	48	55	2	1	34	36
Arizona	18	22	-18.6%	0	0	18	22	0	0	0	0
Colorado	13	13	0.3%	0	0	13	13	0	0	0	0
Idaho	42	48	-11.0%	NM	NM	8	10	1	1	32	35
Montana	2	1	66.0%	0	0	0	0	0	0	2	1
Nevada	4	4	0.5%	0	0	4	4	0	0	0	0
New Mexico	1	1	-37.4%	0	0	1	1	0	0	0	0
Utah	6	5	25.5%	0	0	5	5	1	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	681	684	-0.5%	36	42	381	409	60	40	204	193
California	463	469	-1.3%	6	5	340	366	57	37	59	61
Oregon	88	81	8.5%	5	5	31	35	2	2	49	39
Washington	130	135	-3.1%	25	32	9	8	0	NM	96	93
Pacific Noncontiguous	24	29	-17.4%	3	5	4	4	17	19	0	NM
Alaska	3	3	2.5%	0	0	0	0	3	3	0	NM
Hawaii	20	25	-19.9%	3	5	4	4	13	16	0	0
U.S. Total	4,654	4,907	-5.2%	256	391	2,025	2,113	165	147	2,208	2,256

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	2,362	2,627	-10.1%	102	190	1,751	1,925	40	52	469	461
Connecticut	311	314	-1.2%	0	0	311	314	0	0	0	0
Maine	897	1,035	-13.3%	0	0	413	554	15	21	469	461
Massachusetts	437	429	2.0%	0	0	427	417	11	12	0	0
New Hampshire	462	599	-22.8%	21	102	428	479	14	19	0	0
Rhode Island	96	78	23.3%	0	0	96	78	0	0	0	0
Vermont	159	173	-8.0%	81	88	77	84	1	1	0	0
Middle Atlantic	1,999	1,952	2.4%	0	0	1,543	1,492	198	193	257	267
New Jersey	327	338	-3.2%	0	0	265	280	62	58	0	0
New York	787	731	7.7%	0	0	644	585	78	78	65	68
Pennsylvania	885	883	0.2%	0	0	635	628	58	57	192	199
East North Central	2,085	2,194	-5.0%	266	276	1,165	1,223	50	65	604	629
Illinois	179	172	4.1%	43	41	136	131	0	0	0	0
Indiana	175	168	4.2%	120	114	20	20	8	8	26	25
Michigan	919	1,013	-9.3%	0	0	658	702	19	31	242	280
Ohio	288	286	0.6%	0	0	179	195	4	3	105	88
Wisconsin	525	556	-5.6%	103	121	171	175	19	23	232	236
West North Central	713	731	-2.4%	132	143	264	249	42	53	275	284
Iowa	90	88	1.7%	6	6	48	45	16	17	20	20
Kansas	26	25	4.8%	0	0	26	25	0	0	0	0
Minnesota	520	539	-3.4%	85	97	174	165	7	15	253	262
Missouri	40	42	-4.2%	11	10	15	15	13	16	1	1
Nebraska	36	36	-0.1%	30	30	0	0	6	6	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	7,881	7,762	1.5%	715	913	2,756	2,501	112	111	4,298	4,237
Delaware	22	21	4.2%	0	0	18	17	0	0	5	5
District of Columbia	25	23	12.0%	0	0	0	0	25	23	0	0
Florida	1,835	1,916	-4.2%	224	290	789	825	17	16	805	784
Georgia	2,359	2,006	17.6%	0	0	685	388	0	0	1,674	1,618
Maryland	114	167	-31.6%	0	0	106	109	8	9	0	49
North Carolina	1,043	1,022	2.1%	0	0	500	516	3	3	540	503
South Carolina	974	1,018	-4.4%	123	178	179	161	0	0	672	679
Virginia	1,509	1,590	-5.1%	368	444	478	484	59	60	603	601
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,591	2,503	3.5%	36	35	53	110	0	0	2,502	2,359
Alabama	1,453	1,409	3.1%	0	0	15	74	0	0	1,438	1,335
Kentucky	182	168	8.4%	36	35	3	3	0	0	143	131
Mississippi	586	536	9.5%	0	0	5	5	0	0	582	531
Tennessee	369	390	-5.4%	0	0	30	28	0	0	339	362
West South Central	1,950	2,205	-11.6%	0	0	244	243	2	13	1,704	1,949
Arkansas	412	609	-32.4%	0	0	32	31	2	2	378	576
Louisiana	867	921	-5.9%	0	0	32	31	0	0	834	890
Oklahoma	141	129	9.3%	0	0	8	8	0	0	133	121
Texas	530	546	-2.9%	0	0	172	173	0	11	359	362
Mountain	434	431	0.6%	6	5	251	261	10	7	167	158
Arizona	91	98	-7.7%	0	0	91	98	0	0	0	0
Colorado	71	65	9.5%	0	0	71	65	0	0	0	0
Idaho	205	203	0.9%	6	5	37	45	4	3	158	150
Montana	9	8	12.5%	0	0	0	0	0	0	9	8
Nevada	22	21	5.0%	0	0	22	21	0	0	0	0
New Mexico	5	8	-38.0%	0	0	5	8	0	0	0	0
Utah	31	28	11.6%	0	0	25	24	6	4	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,464	3,459	0.1%	186	200	1,950	1,995	308	282	1,020	983
California	2,352	2,368	-0.7%	31	31	1,746	1,791	291	265	284	281
Oregon	447	418	7.0%	23	22	157	159	12	12	255	225
Washington	665	674	-1.3%	132	147	47	45	4	5	481	476
Pacific Noncontiguous	115	143	-19.6%	11	31	22	21	82	91	NM	NM
Alaska	17	16	3.5%	0	0	0	0	16	15	NM	NM
Hawaii	98	127	-22.6%	11	31	22	21	65	75	0	0
U.S. Total	23,593	24,009	-1.7%	1,453	1,793	9,998	10,020	845	868	11,297	11,328

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
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	384	357	7.7%	20	19	326	300	39	37	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	NM	NM	0	0	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	337	311	8.4%	0	0	298	273	39	37	0	0
New Mexico	3	4	-14.0%	0	0	3	4	0	0	0	0
Utah	38	36	4.8%	20	19	18	17	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,026	980	4.7%	66	50	960	930	0	0	0	0
California	1,013	968	4.7%	66	50	947	918	0	0	0	0
Oregon	13	12	4.9%	0	0	13	12	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	11	11	1.4%	0	0	11	11	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	11	11	1.4%	0	0	11	11	0	0	0	0
U.S. Total	1,421	1,347	5.5%	86	69	1,296	1,241	39	37	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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 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	1,835	1,794	2.3%	91	94	1,542	1,509	201	191	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	29	30	-2.2%	0	0	29	30	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,607	1,560	3.0%	0	0	1,406	1,369	201	191	0	0
New Mexico	25	27	-7.0%	0	0	25	27	0	0	0	0
Utah	173	177	-1.9%	91	94	82	83	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,790	4,902	-2.3%	287	290	4,503	4,612	0	0	0	0
California	4,730	4,842	-2.3%	287	290	4,444	4,552	0	0	0	0
Oregon	59	60	-1.8%	0	0	59	60	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	54	57	-4.9%	0	0	54	57	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	54	57	-4.9%	0	0	54	57	0	0	0	0
U.S. Total	6,678	6,753	-1.1%	378	383	6,099	6,178	201	191	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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	636	500	27.2%	227	161	409	339	22	13	203	146	NM	NM	NM	NM	213	181	NM	NM	NM	NM	17	13	178	144
Connecticut	110	79	39.0%	28	18	82	61	0	0	27	17	NM	NM	NM	NM	30	22	NM	NM	NM	NM	4	3	47	37
Maine	NM	9	NM	NM	NM	9	8	0	0	NM	NM	3	3	0	0	3	3	0	0	0	0	0	0	6	5
Massachusetts	409	341	19.8%	157	119	252	222	14	10	142	109	NM	NM	NM	NM	145	134	NM	NM	NM	NM	12	9	95	79
New Hampshire	17	13	24.3%	0	0	17	13	0	0	0	0	6	4	0	0	6	4	1	1	0	0	1	1	10	8
Rhode Island	48	24	100.9%	18	6	30	18	0	0	18	6	22	12	0	0	22	12	0	0	0	0	0	0	8	6
Vermont	42	34	26.8%	23	17	19	17	8	4	16	13	7	6	0	0	7	6	0	0	0	0	0	0	11	10
Middle Atlantic	879	662	32.8%	297	186	582	476	9	8	266	160	283	223	20	16	263	208	32	NM	3	NM	29	24	290	244
New Jersey	433	344	25.8%	166	117	266	227	9	8	139	95	137	120	17	14	120	106	NM	NM	NM	NM	20	16	126	106
New York	367	258	42.1%	114	61	253	198	0	0	111	58	NM	NM	NM	NM	123	85	NM	NM	NM	NM	2	2	128	111
Pennsylvania	79	59	33.1%	17	9	62	51	0	0	15	7	NM	NM	NM	NM	20	17	NM	NM	NM	NM	7	6	35	28
East North Central	222	149	49.4%	103	75	119	74	34	24	67	49	NM	NM	NM	NM	59	41	7	6	0	0	6	6	54	27
Illinois	51	23	116.6%	8	6	43	17	NM	NM	7	6	NM	NM	NM	NM	23	10	0	0	0	0	0	0	20	8
Indiana	63	46	35.8%	45	33	18	13	23	14	22	19	NM	NM	NM	NM	9	9	0	0	0	0	0	0	8	4
Michigan	36	28	31.3%	19	16	17	11	10	9	9	7	NM	NM	NM	NM	7	6	NM	NM	0	0	NM	NM	9	5
Ohio	48	36	32.5%	23	15	26	22	NM	NM	21	13	NM	NM	NM	NM	14	13	3	4	0	0	3	3	9	5
Wisconsin	24	15	61.5%	9	4	15	11	0	0	8	4	NM	NM	NM	NM	5	4	2	2	0	0	2	2	7	4
West North Central	307	233	31.6%	230	173	77	60	3	NM	227	170	34	29	0	0	34	28	3	2	0	0	3	2	40	30
Iowa	NM	18	NM	NM	NM	21	17	NM	NM	NM	NM	13	10	0	0	13	10	1	1	0	0	1	1	8	6
Kansas	12	6	115.2%	8	NM	5	4	NM	NM	7	NM	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Minnesota	217	166	31.2%	204	155	13	11	NM	NM	204	155	3	3	0	0	3	3	2	1	0	0	2	1	8	6
Missouri	47	39	22.3%	11	11	36	28	0	0	11	10	16	13	0	0	16	13	1	1	0	0	1	1	19	15
Nebraska	6	5	21.2%	4	3	2	1	NM	NM	3	3	1	1	0	0	1	1	0	0	0	0	0	0	1	1
North Dakota	0	0	9.1%	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	2,794	1,877	48.9%	2,430	1,575	364	302	792	440	1,621	1,120	97	92	17	15	81	77	NM	NM	NM	NM	37	34	246	190
Delaware	20	18	9.0%	7	5	13	13	NM	NM	6	5	3	4	0	0	3	4	1	1	0	0	1	1	9	8
District of Columbia	NM	10	NM	NM	NM	12	8	0	0	NM	NM	6	4	0	0	6	4	0	0	0	0	0	0	6	4
Florida	807	470	71.7%	701	403	106	67	633	346	67	56	NM	NM	NM	NM	15	13	2	NM	0	NM	2	1	89	52
Georgia	NM	244	NM	397	213	NM	32	35	32	363	180	NM	NM	NM	NM	5	4	NM	NM	0	0	NM	NM	NM	NM
Maryland	171	159	7.7%	65	51	106	108	NM	NM	62	48	NM	NM	NM	NM	26	28	3	4	0	0	3	4	77	76
North Carolina	964	766	25.8%	929	740	35	27	61	39	856	689	25	23	12	11	13	12	1	1	0	0	1	1	21	14
South Carolina	232	106	118.2%	194	71	38	35	NM	NM	192	70	7	8	0	0	7	8	NM	NM	NM	NM	4	3	26	24
Virginia	155	102	52.0%	135	90	21	12	61	20	74	69	NM	NM	NM	NM	6	3	0	0	0	0	0	0	14	9
West Virginia	2	1	26.6%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	157	135	15.9%	138	118	18	17	8	7	129	110	NM	NM	NM	NM	11	11	NM	NM	NM	NM	0	0	7	5
Alabama	NM	45	NM	44	44	NM	NM	3	3	41	41	NM	NM	0	0	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	10	8	19.7%	4	4	5	4	4	4	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Mississippi	52	36	42.7%	50	35	2	1	0	0	50	35	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
Tennessee	49	46	7.8%	40	36	10	10	NM	NM	38	35	NM	NM	NM	NM	7	7	NM	NM	NM	NM	NM	NM	3	3
West South Central	924	559	65.3%	760	434	163	125	9	7	748	426	33	NM	3	NM	30	27	1	1	0	0	1	1	132	97
Arkansas	31	24	30.0%	25	20	6	3	NM	NM	22	20	4	1	2	0	2	1	0	0	0	0	0	0	3	2
Louisiana	NM	25	NM	NM	NM	26	25	NM	NM	0	0	1	2	0	0	1	2	0	0	0	0	0	0	25	23
Oklahoma	9	8	17.7%	7	6	3	2	7	6	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
Texas	857	502	70.7%	728	408	129	95	NM	NM	726	406	NM	NM	NM	NM	26	24	NM	0	0	0	NM	0	103	71
Mountain	2,351	1,931	21.8%	1,793	1,449	558	482	145	101	1,635	1,338	151	137	11	9	140	128	NM	7	NM	0	7	7	412	348
Arizona	837	702	19.2%	540	434	297	268	80	67	458	366	NM	NM	NM	NM	85	76	1	1	0	0	1	1	211	190
Colorado	243	185	30.9%	172	122	70	63	NM	NM	168	120	25	NM	3	NM	22	22	0	0	0	0	0	0	48	41
Idaho	71	62	14.5%	62	57	9	6	0	0	62	57	1	1	0	0	1	1	NM	0	NM	0	0	0	8	5
Montana	7	6	18.8%	4	3	3	3	0	0	4	3	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Nevada	646	528	22.3%	558	461	88	67	22	4	528	450	19	17	7	6	12	11	4	4	0	0	4	4	73	53
New Mexico	214	165	29.4%	179	137	35	29	42	29	138	108	9	8	0	0	9	8	0	0	0	0	0	0	26	20
Utah	311	262	18.6%	256	216	54	46	0	0	256	216	10	9	0	0	10	9	1	1	0	0	1	1	43	36
Wyoming	23	20	14.0%	21	19	1	1	0	0	21	19	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pacific Contiguous	5,104	4,241	20.3%	3,264	2,661	1,840	1,580	58	52	3,181	2,590	447	395	19	16	428	378	254	224	6	3	248	221	1,164	980
California	4,935	4,115	19.9%	3,152	2,588	1,783	1,527	57	51	3,070	2,518	432	378	19	16	413	361	252	222	6	3	246	219	1,124	946
Oregon	135	98	38.0%	107	69	29	29	NM	NM	106	68	11	14	0	0	11	14	2	2	0	0	2	2	16	14
Washington	33	28	17.0%	5	NM	28	24	0	0	5	NM	4	4	0	0	4	4	0	0	0	0	0	0	24	20
Pacific Noncontiguous	168	127	32.1%	53	23	115	104	8	4	45	19	44	41	0	0	44	41	0	0	0	0	0	0	71	63
Alaska	1	1	73.0%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Hawaii	167	127	32.0%	53	23	114	104	8	4	45	19	44	41	0	0	44	41	0	0	0	0	0	0	70	63
U.S. Total	13,541	10,414	30.0%	9,296	6,855	4,245	3,558	1,088	658	8,122	6,129	1,377	1,182	74	61	1,303	1,121	361	316	12	8	349	309	2,593	2,129

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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	2,366	1,934	22.3%	788	620	1,577	1,314	78	52	702	560	864	719	6	6	857	713	70	54	2	NM	68	52	652	549
Connecticut	396	306	29.7%	98	68	298	237	1	1	94	64	116	93	3	NM	113	89	17	12	NM	NM	17	12	168	136
Maine	41	34	17.9%	5	4	36	30	0	0	5	4	13	12	0	0	13	12	0	0	0	0	0	0	23	18
Massachusetts	1,540	1,327	16.0%	552	458	988	869	49	37	498	416	597	534	3	3	594	531	48	39	2	NM	46	37	348	302
New Hampshire	65	52	24.5%	0	0	65	52	0	0	0	0	22	16	0	0	22	16	4	3	0	0	4	3	39	33
Rhode Island	170	87	94.2%	50	24	120	63	0	0	50	24	89	41	0	0	89	41	0	0	0	0	0	0	32	23
Vermont	154	127	21.0%	84	65	71	62	28	14	56	51	27	23	0	0	27	23	1	1	0	0	1	1	42	38
Middle Atlantic	3,218	2,519	27.7%	1,027	707	2,191	1,813	31	29	918	607	1,086	862	68	61	1,018	801	127	101	10	9	117	92	1,056	919
New Jersey	1,597	1,337	19.4%	571	450	1,026	887	31	29	477	365	539	476	59	53	480	423	86	62	3	3	83	60	463	405
New York	1,329	958	38.8%	398	223	932	735	0	0	388	214	467	321	6	6	461	315	11	11	3	NM	7	7	464	413
Pennsylvania	291	224	29.9%	58	33	233	191	0	0	53	28	79	66	2	2	77	64	30	28	3	3	27	25	129	102
East North Central	786	550	43.0%	365	290	421	259	120	92	236	189	217	157	8	8	208	149	24	18	1	1	23	17	190	93
Illinois	175	84	107.1%	27	25	147	60	1	1	25	23	81	36	NM	NM	79	35	0	0	0	0	0	0	68	25
Indiana	226	177	27.3%	161	129	65	48	81	54	78	73	36	34	NM	NM	35	33	1	1	0	0	1	1	29	15
Michigan	128	104	22.7%	67	64	61	41	35	34	31	29	27	21	NM	NM	26	20	1	1	0	0	1	1	34	19
Ohio	172	130	32.4%	79	57	93	73	3	3	73	51	52	49	NM	NM	49	46	12	9	1	1	11	8	33	19
Wisconsin	86	54	59.5%	32	16	54	38	0	0	29	14	21	17	3	NM	18	15	9	7	0	0	9	7	27	16
West North Central	1,101	843	30.7%	806	614	295	228	10	8	796	606	132	108	0	1	132	108	12	9	0	0	12	9	151	112
Iowa	88	67	32.3%	9	5	79	61	3	3	6	NM	48	38	0	0	48	38	2	2	0	0	2	2	29	21
Kansas	37	21	76.8%	18	6	19	15	NM	NM	17	6	7	6	0	0	7	6	0	0	0	0	0	0	12	9
Minnesota	769	587	30.9%	723	549	46	39	NM	NM	722	548	10	13	0	0	10	13	6	4	0	0	6	4	30	22
Missouri	184	149	24.0%	42	41	142	107	2	2	40	39	64	49	0	1	64	49	3	2	0	0	3	2	75	57
Nebraska	22	18	20.3%	14	12	8	6	3	NM	11	10	3	2	0	0	3	2	0	0	0	0	0	0	5	3
North Dakota	0	0	16.2%	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	12.2%	NM	NM	1	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	10,095	7,230	39.6%	8,656	6,066	1,439	1,164	2,863	1,779	5,731	4,229	387	364	59	56	328	309	157	142	NM	NM	154	139	957	716
Delaware	77	70	8.8%	24	20	53	50	3	2	21	18	14	14	0	0	14	14	4	3	0	0	4	3	35	33
District of Columbia	54	38	41.3%	7	5	47	33	0	0	7	5	23	17	0	0	23	17	0	0	0	0	0	0	24	16
Florida	2,958	1,900	55.6%	2,532	1,634	426	266	2,276	1,418	251	210	67	59	5	5	63	55	7	6	NM	NM	6	5	357	207
Georgia	1,524	920	65.7%	1,388	792	136	127	128	122	1,259	669	20	18	NM	NM	19	17	106	102	0	0	106	102	10	8
Maryland	642	586	9.6%	238	193	404	393	3	3	225	183	113	113	9	7	104	106	14	15	0	0	14	15	286	272
North Carolina	3,528	2,925	20.6%	3,387	2,818	141	108	229	152	3,114	2,623	94	93	44	42	51	51	6	3	0	0	6	3	85	54
South Carolina	754	407	85.4%	602	273	152	134	4	NM	596	270	30	33	0	0	30	33	19	12	NM	NM	17	11	105	90
Virginia	553	379	45.8%	478	330	74	49	221	78	256	251	23	15	NM	NM	22	14	1	1	0	0	1	1	51	34
West Virginia	6	5	27.7%	0	0	6	5	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	4	3
East South Central	558	488	14.5%	487	423	72	64	28	27	454	392	46	45	NM	NM	45	43	4	4	2	2	1	1	26	20
Alabama	160	163	-1.5%	154	157	6	6	12	12	142	145	4	4	0	0	4	4	0	0	0	0	0	0	1	1
Kentucky	36	30	17.0%	15	15	20	15	15	15	NM	NM	9	9	0	0	9	9	1	1	0	0	1	1	10	6
Mississippi	186	133	39.4%	179	128	7	5	0	0	179	128	4	3	0	0	4	3	0	0	0	0	0	0	3	2
Tennessee	177	161	9.7%	138	123	39	38	NM	NM	132	118	29	29	NM	NM	28	27	2	2	2	2	0	0	11	11
West South Central	3,149	2,202	43.0%	2,503	1,709	646	493	34	28	2,460	1,680	132	110	10	NM	122	109	3	3	0	0	3	3	521	382
Arkansas	104	89	16.5%	82	76	22	13	NM	NM	74	75	15	4	8	0	7	4	2	1	0	0	2	1	13	8
Louisiana	104	99	5.4%	NM	NM	103	98	NM	NM	0	0	6	7	0	0	6	7	0	0	0	0	0	0	98	91
Oklahoma	35	31	12.5%	25	24	10	7	25	24	0	0	2	2	0	0	2	2	0	0	0	0	0	0	8	5
Texas	2,907	1,983	46.6%	2,396	1,609	511	374	8	3	2,386	1,604	109	98	NM	NM	107	96	1	1	0	0	1	1	403	277
Mountain	8,775	7,414	18.4%	6,555	5,527	2,220	1,887	484	386	6,028	5,104	619	557	41	35	578	522	32	28	3	1	29	28	1,613	1,338
Arizona	3,201	2,747	16.5%	1,998	1,697	1,203	1,050	282	262	1,711	1,430	361	317	5	5	356	312	6	6	0	0	6	6	841	732
Colorado	845	716	18.1%	573	463	272	253	3	2	559	455	101	96	11	6	90	90	1	1	0	0	1	1	181	162
Idaho	252	226	11.6%	221	206	31	20	0	0	219	206	3	2	0	0	3	2	3	1	NM	0	2	1	27	16
Montana	25	22	14.3%	13	13	12	9	0	0	13	13	3	3	0	0	3	3	0	0	0	0	0	0	8	6
Nevada	2,476	2,001	23.8%	2,134	1,745	342	256	49	15	2,059	1,704	72	68	25	24	47	44	17	16	1	1	16	16	279	196
New Mexico	772	637	21.2%	625	518	147	119	149	108	476	410	39	35	0	0	39	35	1	1	0	0	1	1	107	83
Utah	1,123	995	12.8%	914	818	209	177	0	0	914	818	39	34	0	0	39	34	4	4	0	0	4	4	166	139
Wyoming	81	70	15.8%	77	67	5	3	0	0	77	67	1	1	0	0	1	1	0	0	0	0	0	0	4	2
Pacific Contiguous	18,595	16,232	14.6%	11,591	10,209	7,003	6,023	206	198	11,303	9,935	1,732	1,545	67	64	1,665	1,481	969	856	16	12	953	844	4,384	3,698
California	18,015	15,792	14.1%	11,204	9,941	6,811	5,851	203	195	10,918	9,670	1,681	1,491	67	64	1,614	1,427	963	850	16	12	947	838	4,250	3,586
Oregon	467	345	35.1%	370	251	96	94	2	2	368	249	37	43	0	0	37	43	6	6	0	0	6	6	53	45
Washington	113	95	19.0%	17	16	96	78	0	0	17	16	14	11	0	0	14	11	0	0	0	0	0	0	81	67
Pacific Noncontiguous	687	541	26.9%	194	91	493	450	34	17	160	75	188	178	0	0	188	178	2	1	0	0	2	1	304	271
Alaska	3	2	72.0%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Hawaii	684	540	26.8%	194	91	491	448	34	17	160	75	187	177	0	0	187	177	2	1	0	0	2	1	302	270
U.S. Total	49,331	39,953	23.5%	32,973	26,256	16,358	13,697	3,887	2,616	28,788	23,377	5,402	4,647	262	233	5,140	4,413	1,399	1,215	36	29	1,363	1,186	9,855	8,098

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, May 2020 and 2019 (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	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
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	33	0	--	0	0	33	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	33	0	--	0	0	33	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	6	3	85.9%	6	3	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	6	3	85.9%	6	3	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	109	103	5.8%	0	0	109	103	0	0	0	0
Arizona	94	91	2.9%	0	0	94	91	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	16	12	28.0%	0	0	16	12	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	298	230	29.5%	0	0	298	230	0	0	0	0
California	298	230	29.5%	0	0	298	230	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	446	336	32.6%	6	3	440	333	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 May 2020 and 2019 (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	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 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	104	0	--	0	0	104	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	104	0	--	0	0	104	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	15	17	-14.8%	15	17	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	15	17	-14.8%	15	17	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	358	386	-7.3%	0	0	358	386	0	0	0	0
Arizona	320	298	7.3%	0	0	320	298	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	38	88	-56.6%	0	0	38	88	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	822	759	8.3%	0	0	822	759	0	0	0	0
California	822	759	8.3%	0	0	822	759	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	1,299	1,163	11.7%	15	17	1,284	1,146	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.

Chapter 2

Consumption of Fossil Fuels

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	663,911	484,389	176,643	95	2,783
2018	636,213	473,617	159,976	87	2,534
2019	538,465	398,671	137,460	78	2,257
Year 2018					
January	64,845	47,762	16,817	11	255
February	45,793	34,002	11,552	9	230
March	44,474	32,312	11,930	8	224
April	40,515	30,350	9,965	7	193
May	47,293	35,261	11,815	6	211
June	56,078	42,502	13,360	6	210
July	63,818	48,277	15,322	6	212
August	63,737	47,866	15,660	7	204
Sept	53,914	40,293	13,415	7	199
October	48,422	35,547	12,695	6	173
November	51,702	37,956	13,537	7	202
December	55,624	41,488	13,908	7	221
Year 2019					
January	55,831	41,298	14,305	10	218
February	45,056	33,365	11,484	8	198
March	44,038	31,673	12,185	9	172
April	33,432	24,481	8,781	6	165
May	40,061	30,220	9,654	6	181
June	44,274	33,482	10,611	4	176
July	56,062	42,233	13,617	6	205
August	52,512	39,619	12,686	5	202
Sept	47,418	35,347	11,876	6	189
October	37,435	26,979	10,273	6	177
November	41,918	30,311	11,414	6	188
December	40,429	29,663	10,574	7	184
Year 2020					
January	36,697	27,198	9,302	6	191
February	31,971	23,594	8,189	9	179
March	28,917	21,602	7,139	6	171
April	23,617	16,922	6,542	4	150
May	26,827	19,765	6,911	5	146
Year to Date					
2018	242,919	179,687	62,078	41	1,113
2019	218,418	161,036	56,409	38	935
2020	148,030	109,082	38,083	29	836
Rolling 12 Months Ending in May					
2019	611,712	454,966	154,306	84	2,356
2020	468,077	346,716	119,133	69	2,159

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	14,667	2,802	1,158	515	10,192
2018	13,813	2,268	1,356	490	9,700
2019	12,720	2,194	1,091	448	8,987
Year 2018					
January	1,434	237	144	65	987
February	1,285	216	126	51	892
March	1,254	202	119	49	885
April	1,095	188	100	40	767
May	1,081	173	106	33	769
June	1,081	184	107	30	759
July	1,078	189	105	34	750
August	1,064	181	103	35	745
Sept	1,061	183	97	38	743
October	984	159	72	35	718
November	1,167	173	141	40	813
December	1,229	182	135	40	872
Year 2019					
January	1,305	212	168	49	877
February	1,139	201	91	44	802
March	1,127	202	108	45	772
April	1,044	155	104	33	752
May	1,001	136	100	34	731
June	1,015	177	106	26	706
July	969	186	87	34	662
August	999	208	71	37	682
Sept	931	179	60	37	656
October	1,060	177	68	33	783
November	1,059	177	60	38	784
December	1,070	183	69	39	780
Year 2020					
January	1,047	164	53	35	795
February	1,002	150	51	40	761
March	926	135	40	34	716
April	813	104	41	26	642
May	797	112	50	27	607
Year to Date					
2018	6,149	1,017	596	237	4,299
2019	5,616	907	570	205	3,934
2020	4,585	665	235	163	3,521
Rolling 12 Months Ending in May					
2019	13,280	2,158	1,330	457	9,334
2020	11,688	1,952	756	406	8,574

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	678,578	487,192	177,801	610	12,975
2018	650,027	475,885	161,332	577	12,233
2019	551,185	400,864	138,550	526	11,244
Year 2018					
January	66,279	47,999	16,961	76	1,242
February	47,079	34,219	11,679	59	1,122
March	45,728	32,513	12,049	57	1,109
April	41,610	30,538	10,065	47	960
May	48,374	35,435	11,921	39	979
June	57,159	42,687	13,467	36	969
July	64,895	48,467	15,427	40	962
August	64,801	48,047	15,763	42	949
Sept	54,975	40,475	13,512	45	943
October	49,406	35,706	12,768	42	891
November	52,868	38,129	13,677	47	1,015
December	56,853	41,670	14,043	47	1,093
Year 2019					
January	57,136	41,510	14,472	58	1,095
February	46,195	33,567	11,575	52	1,000
March	45,165	31,874	12,292	54	944
April	34,476	24,636	8,884	39	918
May	41,062	30,356	9,754	40	912
June	45,289	33,659	10,717	31	882
July	57,031	42,419	13,704	40	867
August	53,511	39,827	12,757	42	885
Sept	48,349	35,525	11,936	42	845
October	38,495	27,156	10,341	38	960
November	42,977	30,488	11,473	44	971
December	41,499	29,846	10,642	46	964
Year 2020					
January	37,744	27,362	9,355	41	986
February	32,973	23,744	8,241	48	940
March	29,843	21,737	7,179	41	887
April	24,430	17,026	6,582	30	792
May	27,624	19,878	6,961	32	753
Year to Date					
2018	249,069	180,704	62,675	278	5,412
2019	224,034	161,943	56,979	243	4,869
2020	152,614	109,747	38,318	192	4,358
Rolling 12 Months Ending in May					
2019	624,992	457,124	155,636	541	11,690
2020	479,765	348,668	119,889	475	10,733

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	21,696	15,567	5,461	191	476
2018	28,614	18,345	9,467	269	534
2019	20,430	14,920	4,806	245	459
Year 2018					
January	9,468	4,469	4,861	66	72
February	1,451	1,118	270	14	49
March	1,497	1,096	348	12	42
April	1,601	1,169	383	15	34
May	1,863	1,340	463	18	43
June	1,895	1,378	464	18	35
July	1,753	1,216	454	27	56
August	1,870	1,295	516	24	35
Sept	1,863	1,401	411	18	33
October	1,814	1,368	390	16	40
November	1,799	1,281	452	22	45
December	1,740	1,216	455	20	49
Year 2019					
January	2,423	1,611	745	23	44
February	1,411	1,013	343	13	41
March	1,449	1,072	323	16	39
April	1,397	988	348	15	46
May	1,653	1,227	370	18	37
June	1,731	1,325	351	18	37
July	1,820	1,287	475	25	33
August	1,892	1,448	383	22	39
Sept	1,661	1,261	336	27	37
October	1,697	1,263	376	24	33
November	1,607	1,177	369	24	37
December	1,690	1,248	387	21	35
Year 2020					
January	1,711	1,385	269	21	34
February	1,396	1,115	233	12	35
March	1,330	947	335	17	32
April	1,149	872	236	12	29
May	1,260	961	247	20	33
Year to Date					
2018	15,880	9,190	6,325	125	240
2019	8,333	5,910	2,130	85	208
2020	6,846	5,280	1,321	82	163
Rolling 12 Months Ending in May					
2019	21,067	15,065	5,272	229	502
2020	18,944	14,289	3,997	243	414

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	2,012	72	220	238	1,482
2018	2,614	103	354	350	1,807
2019	2,285	70	250	405	1,559
Year 2018					
January	701	58	132	109	402
February	179	4	12	25	138
March	156	3	13	21	118
April	136	3	12	17	104
May	147	4	18	16	109
June	162	5	14	15	128
July	156	3	11	28	114
August	143	4	12	23	104
Sept	130	7	15	15	93
October	190	5	16	16	153
November	228	3	20	30	174
December	287	3	80	35	169
Year 2019					
January	375	20	45	45	266
February	186	8	21	27	130
March	172	4	22	29	118
April	160	3	19	17	120
May	267	6	18	120	124
June	143	4	18	13	108
July	120	4	14	25	76
August	151	6	14	23	108
Sept	157	4	21	28	104
October	139	4	21	21	93
November	261	4	19	32	206
December	154	4	18	25	107
Year 2020					
January	138	4	11	25	99
February	128	4	11	17	96
March	119	3	13	19	84
April	107	6	14	11	76
May	130	3	14	22	91
Year to Date					
2018	1,319	73	187	188	872
2019	1,160	41	124	238	757
2020	622	19	64	94	445
Rolling 12 Months Ending in May					
2019	2,455	71	291	401	1,692
2020	1,746	49	190	261	1,247

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	23,708	15,640	5,681	429	1,958
2018	31,228	18,448	9,820	619	2,341
2019	22,715	14,990	5,056	650	2,018
Year 2018					
January	10,169	4,527	4,993	175	474
February	1,630	1,122	282	39	187
March	1,653	1,099	361	33	160
April	1,738	1,172	395	32	138
May	2,010	1,343	480	34	152
June	2,057	1,383	478	33	164
July	1,909	1,219	465	55	170
August	2,012	1,298	528	46	140
Sept	1,993	1,407	426	34	127
October	2,003	1,373	406	31	193
November	2,027	1,284	472	52	219
December	2,027	1,220	534	55	218
Year 2019					
January	2,798	1,630	790	68	310
February	1,597	1,021	365	40	171
March	1,621	1,076	344	44	156
April	1,557	991	367	33	166
May	1,920	1,233	388	138	161
June	1,874	1,328	369	31	146
July	1,939	1,291	489	50	109
August	2,042	1,454	397	45	147
Sept	1,818	1,265	357	56	140
October	1,836	1,267	398	45	126
November	1,869	1,181	388	55	243
December	1,845	1,252	405	46	142
Year 2020					
January	1,849	1,389	281	46	133
February	1,524	1,119	244	29	132
March	1,449	949	348	36	116
April	1,256	878	251	23	104
May	1,390	964	261	42	123
Year to Date					
2018	17,199	9,263	6,512	313	1,111
2019	9,493	5,951	2,254	323	964
2020	7,468	5,299	1,385	176	608
Rolling 12 Months Ending in May					
2019	23,522	15,136	5,563	630	2,194
2020	20,690	14,338	4,187	503	1,661

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	3,490	2,731	542	3	214
2018	3,623	2,740	704	2	177
2019	2,806	2,067	556	1	182
Year 2018					
January	377	296	67	0	14
February	305	234	60	0	11
March	255	198	43	0	13
April	271	193	63	0	15
May	212	140	58	0	14
June	338	269	51	0	18
July	367	284	66	0	17
August	352	272	66	0	15
Sept	325	259	50	0	15
October	229	158	54	0	16
November	271	196	63	0	13
December	321	241	65	0	16
Year 2019					
January	329	258	56	0	14
February	283	222	50	0	11
March	266	193	60	0	13
April	182	107	60	0	15
May	298	219	63	0	15
June	218	151	53	0	14
July	314	227	61	0	25
August	278	203	59	0	15
Sept	259	183	59	0	17
October	82	64	3	0	14
November	130	101	15	0	14
December	167	137	16	0	15
Year 2020					
January	285	204	66	0	15
February	174	147	14	0	13
March	273	210	50	0	13
April	230	179	43	0	8
May	248	183	54	0	11
Year to Date					
2018	1,420	1,061	290	1	68
2019	1,358	1,001	289	1	67
2020	1,210	923	227	1	60
Rolling 12 Months Ending in May					
2019	3,561	2,680	703	2	176
2020	2,658	1,989	494	1	174

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	977	11	115	15	836
2018	929	12	93	10	814
2019	865	17	93	6	750
Year 2018					
January	88	1	9	2	76
February	78	1	8	2	67
March	72	1	9	1	61
April	83	1	10	1	71
May	70	1	6	0	63
June	75	1	1	0	73
July	81	1	9	0	71
August	77	1	9	0	66
Sept	74	1	7	1	65
October	77	0	9	1	67
November	71	1	8	2	61
December	83	1	8	2	72
Year 2019					
January	74	1	8	2	63
February	65	1	8	1	55
March	77	1	9	1	66
April	75	2	9	1	63
May	78	1	9	0	69
June	73	1	7	0	65
July	79	2	8	0	69
August	71	0	8	0	63
Sept	91	2	7	0	82
October	59	1	2	0	56
November	52	2	9	0	41
December	70	2	9	1	58
Year 2020					
January	78	1	9	2	65
February	48	1	9	1	36
March	41	1	9	0	31
April	33	3	8	0	23
May	63	3	8	0	52
Year to Date					
2018	391	5	42	5	338
2019	369	7	42	5	315
2020	263	10	43	3	207
Rolling 12 Months Ending in May					
2019	908	13	93	10	791
2020	760	20	94	4	642

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	4,467	2,742	657	17	1,050
2018	4,552	2,752	797	12	991
2019	3,671	2,083	649	7	932
Year 2018					
January	466	297	76	2	90
February	382	235	68	2	78
March	327	199	52	2	74
April	354	195	72	1	86
May	281	141	63	0	77
June	413	270	52	0	91
July	448	285	75	0	88
August	429	273	75	0	81
Sept	399	260	58	1	80
October	306	159	63	1	83
November	342	196	70	2	74
December	404	242	73	2	88
Year 2019					
January	402	260	64	2	77
February	348	224	58	1	66
March	343	194	68	2	79
April	257	110	69	1	78
May	376	220	72	0	84
June	291	152	60	0	79
July	393	230	69	0	95
August	349	203	68	0	78
Sept	350	185	67	0	98
October	141	65	5	0	70
November	182	102	24	0	56
December	237	139	25	1	73
Year 2020					
January	363	205	76	2	80
February	222	148	23	1	50
March	314	211	59	0	44
April	263	182	50	0	31
May	311	187	62	0	62
Year to Date					
2018	1,810	1,066	331	6	406
2019	1,727	1,007	331	7	383
2020	1,473	933	270	4	267
Rolling 12 Months Ending in May					
2019	4,469	2,693	796	12	968
2020	3,417	2,009	588	5	816

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	9,508,062	4,754,893	4,161,984	50,060	541,126
2018	10,833,043	5,551,181	4,663,935	52,650	565,276
2019	11,550,825	5,958,855	4,958,970	53,622	579,377
Year 2018					
January	805,929	425,891	327,351	4,145	48,542
February	706,517	363,824	296,296	3,886	42,511
March	772,448	395,826	329,151	4,071	43,400
April	722,667	372,401	303,383	3,616	43,268
May	868,518	459,568	359,038	4,201	45,712
June	973,956	520,305	402,054	4,633	46,963
July	1,245,648	639,299	549,546	5,518	51,285
August	1,208,900	605,610	546,123	5,593	51,575
Sept	1,051,922	530,570	468,776	4,838	47,737
October	909,338	457,374	400,338	4,290	47,335
November	784,673	395,480	337,321	3,760	48,112
December	782,527	385,034	344,559	4,098	48,836
Year 2019					
January	860,020	432,058	372,463	4,517	50,981
February	793,583	406,415	338,912	4,129	44,128
March	815,951	415,407	349,668	4,332	46,544
April	755,102	392,685	313,252	4,039	45,126
May	852,486	449,520	351,859	4,218	46,890
June	1,012,529	537,372	423,972	4,355	46,829
July	1,294,629	673,371	565,943	5,002	50,313
August	1,308,612	687,844	564,762	5,152	50,854
Sept	1,115,418	581,736	481,039	4,665	47,978
October	981,373	509,470	419,699	4,351	47,854
November	842,003	421,378	366,242	4,309	50,074
December	919,118	451,599	411,160	4,552	51,807
Year 2020					
January	952,082	484,401	410,175	4,610	52,896
February	902,594	471,058	379,128	4,138	48,271
March	899,962	475,282	371,903	4,021	48,756
April	780,120	416,058	317,179	3,526	43,357
May	849,293	457,548	343,154	3,743	44,847
Year to Date					
2018	3,876,079	2,017,509	1,615,219	19,919	223,433
2019	4,077,142	2,096,085	1,726,154	21,235	233,669
2020	4,384,051	2,304,347	1,821,538	20,038	238,127
Rolling 12 Months Ending in May					
2019	11,034,106	5,629,756	4,774,870	53,967	575,512
2020	11,857,734	6,167,118	5,054,355	52,425	583,836

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	1,168,544	38,740	309,949	104,324	715,532
2018	1,205,962	43,156	331,952	81,856	748,997
2019	1,239,527	46,793	342,807	80,544	769,383
Year 2018					
January	107,213	3,929	28,934	7,417	66,933
February	94,793	3,366	26,629	6,706	58,093
March	100,213	3,557	28,088	6,844	61,724
April	92,932	2,942	25,265	6,133	58,592
May	94,707	3,306	26,238	6,099	59,064
June	97,016	3,642	26,642	6,537	60,196
July	107,003	4,484	30,339	7,649	64,531
August	105,929	4,079	29,861	7,691	64,297
Sept	99,289	3,479	27,089	6,581	62,140
October	99,045	3,013	27,218	6,411	62,402
November	101,846	3,185	27,080	6,829	64,751
December	105,976	4,174	28,570	6,959	66,273
Year 2019					
January	113,278	3,993	32,023	7,638	69,624
February	100,217	3,790	27,223	6,884	62,320
March	104,850	3,703	29,358	6,896	64,893
April	97,156	3,166	26,595	6,151	61,245
May	98,314	3,375	26,480	6,008	62,449
June	99,519	4,099	27,809	6,327	61,285
July	104,637	4,806	29,104	6,792	63,934
August	106,122	4,697	30,997	6,667	63,761
Sept	99,954	4,233	27,779	6,336	61,606
October	99,767	3,232	27,473	6,369	62,694
November	104,425	3,738	28,110	6,983	65,595
December	111,289	3,963	29,855	7,494	69,977
Year 2020					
January	113,337	4,083	31,051	7,474	70,729
February	103,523	3,835	28,827	6,849	64,012
March	105,716	3,947	29,648	6,685	65,436
April	99,410	3,865	26,816	5,990	62,740
May	100,313	3,752	27,973	6,014	62,574
Year to Date					
2018	489,859	17,100	135,153	33,199	304,407
2019	513,814	18,027	141,679	33,578	320,531
2020	522,299	19,481	144,315	33,012	325,491
Rolling 12 Months Ending in May					
2019	1,229,918	44,083	338,478	82,235	765,122
2020	1,248,012	48,248	345,443	79,978	774,343

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	10,676,606	4,793,632	4,471,933	154,383	1,256,658
2018	12,039,005	5,594,338	4,995,888	134,507	1,314,273
2019	12,790,352	6,005,649	5,301,778	134,166	1,348,760
Year 2018					
January	913,142	429,820	356,285	11,562	115,475
February	801,310	367,190	322,924	10,592	100,604
March	872,661	399,383	357,239	10,914	105,124
April	815,600	375,343	328,647	9,750	101,860
May	963,226	462,873	385,276	10,300	104,776
June	1,070,972	523,947	428,696	11,170	107,159
July	1,352,652	643,783	579,885	13,167	115,816
August	1,314,829	609,689	575,984	13,285	115,872
Sept	1,151,210	534,049	495,866	11,419	109,877
October	1,008,383	460,387	427,556	10,702	109,738
November	886,519	398,665	364,401	10,589	112,863
December	888,503	389,208	373,128	11,058	115,109
Year 2019					
January	973,298	436,051	404,486	12,155	120,605
February	893,800	410,205	366,134	11,013	106,448
March	920,801	419,110	379,026	11,228	111,438
April	852,258	395,850	339,847	10,190	106,371
May	950,800	452,895	378,339	10,226	109,339
June	1,112,048	541,471	451,782	10,682	108,113
July	1,399,265	678,178	595,047	11,794	114,247
August	1,414,734	692,541	595,760	11,819	114,615
Sept	1,215,372	585,969	508,818	11,001	109,584
October	1,081,140	512,701	447,172	10,720	110,547
November	946,429	425,116	394,352	11,292	115,669
December	1,030,408	455,562	441,015	12,046	121,785
Year 2020					
January	1,065,419	488,484	441,227	12,084	123,625
February	1,006,117	474,894	407,955	10,987	112,283
March	1,005,678	479,229	401,550	10,706	114,193
April	879,530	419,923	343,995	9,516	106,097
May	949,606	461,300	371,127	9,758	107,422
Year to Date					
2018	4,365,938	2,034,609	1,750,372	53,118	527,840
2019	4,590,957	2,114,111	1,867,832	54,813	554,200
2020	4,906,351	2,323,828	1,965,853	53,050	563,619
Rolling 12 Months Ending in May					
2019	12,264,024	5,673,840	5,113,348	136,202	1,340,634
2020	13,105,746	6,215,366	5,399,799	132,403	1,358,178

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	278,112	25,074	229,050	20,121	3,866
2018	270,235	23,580	223,513	19,790	3,352
2019	241,156	19,107	204,005	15,145	2,898
Year 2018					
January	23,568	2,389	19,205	1,673	301
February	22,069	2,186	17,993	1,576	314
March	23,672	2,377	19,280	1,692	324
April	22,281	2,159	18,159	1,633	330
May	22,748	2,125	18,722	1,609	291
June	21,854	1,777	18,189	1,607	281
July	22,507	1,817	18,773	1,651	266
August	23,061	1,739	19,377	1,696	249
Sept	20,472	1,604	17,004	1,643	222
October	22,360	1,779	18,634	1,687	259
November	22,405	1,812	18,708	1,630	255
December	23,237	1,815	19,468	1,695	259
Year 2019					
January	20,524	1,599	17,016	1,651	259
February	18,832	1,462	15,686	1,448	237
March	21,461	1,750	17,858	1,578	275
April	19,036	1,540	16,347	902	247
May	19,116	1,596	16,802	503	214
June	19,846	1,544	17,003	1,084	216
July	20,607	1,593	17,528	1,277	209
August	20,901	1,621	17,778	1,280	223
Sept	19,765	1,592	16,684	1,266	224
October	20,270	1,605	17,015	1,386	264
November	19,995	1,576	16,752	1,408	258
December	20,803	1,629	17,537	1,364	273
Year 2020					
January	20,771	1,641	17,491	1,361	278
February	19,269	1,556	16,106	1,349	259
March	20,895	1,747	17,464	1,431	253
April	19,656	1,626	16,622	1,203	205
May	19,908	1,640	16,965	1,144	160
Year to Date					
2018	114,339	11,236	93,360	8,182	1,560
2019	98,968	7,947	83,708	6,081	1,232
2020	100,500	8,210	84,647	6,487	1,156
Rolling 12 Months Ending in May					
2019	254,864	20,290	213,861	17,689	3,024
2020	242,687	19,371	204,944	15,551	2,822

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	3,940	2	1,948	1,099	891
2018	3,621	0	1,867	911	843
2019	3,646	0	1,993	820	833
Year 2018					
January	321	0	176	68	77
February	320	0	165	79	77
March	340	0	175	82	83
April	335	0	164	85	86
May	285	0	140	71	74
June	259	0	146	46	68
July	278	0	139	76	64
August	302	0	157	82	63
Sept	290	0	150	82	58
October	334	0	170	95	69
November	276	0	134	73	68
December	280	0	152	71	57
Year 2019					
January	377	0	222	84	71
February	347	0	217	67	62
March	391	0	233	80	78
April	366	0	186	102	77
May	214	0	79	64	71
June	242	0	108	77	57
July	259	0	144	42	73
August	240	0	103	73	64
Sept	240	0	102	74	64
October	335	0	184	77	74
November	343	0	208	59	76
December	292	0	207	21	65
Year 2020					
January	351	0	237	36	78
February	373	0	233	65	74
March	305	0	161	73	71
April	194	0	60	70	64
May	214	0	107	54	53
Year to Date					
2018	1,601	0	820	386	396
2019	1,695	0	938	396	360
2020	1,437	0	798	298	341
Rolling 12 Months Ending in May					
2019	3,714	0	1,985	921	807
2020	3,388	0	1,853	721	814

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	282,051	25,076	230,998	21,220	4,757
2018	273,856	23,580	225,380	20,701	4,196
2019	244,801	19,107	205,998	15,965	3,731
Year 2018					
January	23,890	2,389	19,382	1,741	378
February	22,390	2,186	18,158	1,655	390
March	24,012	2,377	19,455	1,774	407
April	22,616	2,159	18,323	1,718	416
May	23,033	2,125	18,862	1,680	366
June	22,113	1,777	18,335	1,652	349
July	22,785	1,817	18,912	1,726	330
August	23,363	1,739	19,534	1,778	313
Sept	20,763	1,604	17,154	1,725	280
October	22,694	1,779	18,804	1,783	328
November	22,681	1,812	18,842	1,703	324
December	23,516	1,815	19,620	1,766	316
Year 2019					
January	20,901	1,599	17,238	1,734	330
February	19,180	1,462	15,903	1,515	299
March	21,852	1,750	18,091	1,658	353
April	19,401	1,540	16,533	1,004	324
May	19,329	1,596	16,881	567	285
June	20,089	1,544	17,112	1,161	272
July	20,866	1,593	17,672	1,319	282
August	21,141	1,621	17,881	1,353	287
Sept	20,005	1,592	16,786	1,340	288
October	20,604	1,605	17,198	1,463	337
November	20,338	1,576	16,961	1,467	334
December	21,095	1,629	17,744	1,384	338
Year 2020					
January	21,123	1,641	17,728	1,397	356
February	19,642	1,556	16,339	1,414	334
March	21,200	1,747	17,624	1,503	325
April	19,850	1,626	16,681	1,273	270
May	20,122	1,640	17,072	1,198	213
Year to Date					
2018	115,940	11,236	94,180	8,568	1,956
2019	100,663	7,947	84,646	6,478	1,592
2020	101,936	8,210	85,444	6,785	1,497
Rolling 12 Months Ending in May					
2019	258,578	20,290	215,846	18,611	3,831
2020	246,075	19,371	206,796	16,272	3,636

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	16,348	422	13,381	2,537	8
2018	16,783	467	13,859	2,448	9
2019	15,333	297	12,821	2,204	10
Year 2018					
January	1,370	28	1,147	195	0
February	1,297	26	1,090	180	1
March	1,398	40	1,153	204	1
April	1,356	38	1,117	200	1
May	1,419	43	1,158	217	1
June	1,476	42	1,218	214	1
July	1,479	48	1,224	207	1
August	1,483	47	1,220	215	1
Sept	1,334	36	1,097	199	1
October	1,387	43	1,140	205	0
November	1,369	39	1,127	202	0
December	1,416	37	1,169	210	0
Year 2019					
January	1,299	30	1,078	191	1
February	1,138	20	948	169	1
March	1,238	20	1,037	180	1
April	1,223	28	1,008	186	1
May	1,324	26	1,107	189	1
June	1,307	25	1,092	190	1
July	1,345	27	1,132	185	1
August	1,372	29	1,152	190	1
Sept	1,265	21	1,061	182	1
October	1,251	28	1,045	177	1
November	1,254	25	1,056	173	1
December	1,317	20	1,105	191	1
Year 2020					
January	1,287	19	1,079	188	1
February	1,183	14	1,002	166	1
March	1,309	26	1,096	186	1
April	1,227	25	1,049	152	1
May	1,279	24	1,071	183	1
Year to Date					
2018	6,839	174	5,665	996	4
2019	6,221	123	5,179	915	4
2020	6,285	109	5,296	875	5
Rolling 12 Months Ending in May					
2019	16,165	416	13,373	2,367	9
2020	15,397	283	12,939	2,164	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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	2,124	0	814	1,102	208
2018	2,050	0	752	1,109	189
2019	1,576	0	743	646	187
Year 2018					
January	182	0	64	102	17
February	163	0	60	91	12
March	169	0	64	93	12
April	160	0	54	90	16
May	176	0	59	101	16
June	177	0	65	95	18
July	180	0	65	98	17
August	183	0	66	95	21
Sept	144	0	58	68	17
October	160	0	61	83	16
November	173	0	66	93	14
December	182	0	70	100	13
Year 2019					
January	164	0	66	83	15
February	149	0	63	70	15
March	147	0	67	64	16
April	109	0	56	37	17
May	120	0	64	45	12
June	129	0	64	50	15
July	128	0	67	45	16
August	130	0	62	47	21
Sept	117	0	53	48	15
October	122	0	57	50	15
November	131	0	63	53	15
December	131	0	61	55	15
Year 2020					
January	139	0	73	53	13
February	133	0	69	47	16
March	131	0	62	54	15
April	131	0	61	54	16
May	140	0	67	57	16
Year to Date					
2018	850	0	301	476	73
2019	689	0	315	298	75
2020	674	0	333	265	77
Rolling 12 Months Ending in May					
2019	1,888	0	766	931	191
2020	1,562	0	760	613	189

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	18,473	422	14,195	3,639	216
2018	18,833	467	14,611	3,557	197
2019	16,909	297	13,564	2,850	197
Year 2018					
January	1,552	28	1,211	296	17
February	1,459	26	1,150	271	13
March	1,567	40	1,217	297	13
April	1,516	38	1,171	290	17
May	1,595	43	1,217	319	17
June	1,653	42	1,283	309	19
July	1,659	48	1,288	305	18
August	1,666	47	1,286	311	22
Sept	1,478	36	1,156	268	18
October	1,547	43	1,201	288	16
November	1,542	39	1,193	295	14
December	1,598	37	1,238	310	13
Year 2019					
January	1,463	30	1,144	273	16
February	1,286	20	1,011	239	16
March	1,385	20	1,105	244	17
April	1,332	28	1,063	223	18
May	1,444	26	1,171	234	13
June	1,436	25	1,156	241	15
July	1,473	27	1,199	229	17
August	1,503	29	1,215	238	22
Sept	1,382	21	1,114	230	16
October	1,373	28	1,101	227	16
November	1,385	25	1,119	226	15
December	1,448	20	1,166	246	16
Year 2020					
January	1,426	19	1,152	240	14
February	1,316	14	1,071	214	17
March	1,439	26	1,158	240	16
April	1,359	25	1,110	206	17
May	1,419	24	1,138	239	17
Year to Date					
2018	7,689	174	5,966	1,473	77
2019	6,910	123	5,494	1,213	79
2020	6,959	109	5,629	1,139	82
Rolling 12 Months Ending in May					
2019	18,054	416	14,140	3,298	200
2020	16,958	283	13,699	2,777	200

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	363,646	42,806	151,877	460	168,503
2018	361,703	45,856	143,288	520	172,039
2019	345,524	43,977	135,117	583	165,847
Year 2018					
January	33,136	4,713	13,790	63	14,571
February	28,906	3,689	12,141	42	13,033
March	31,435	4,501	12,243	36	14,655
April	26,860	2,966	10,597	16	13,280
May	29,530	3,196	11,683	32	14,619
June	31,205	3,909	12,733	53	14,509
July	33,490	4,670	13,260	59	15,501
August	32,186	4,427	12,624	69	15,067
Sept	28,704	3,340	11,278	52	14,034
October	27,972	3,376	10,642	27	13,927
November	28,539	3,741	10,733	20	14,044
December	29,741	3,326	11,563	51	14,801
Year 2019					
January	31,376	4,520	12,600	52	14,204
February	27,246	3,766	10,416	57	13,007
March	28,118	3,557	10,504	72	13,984
April	26,183	3,119	9,726	24	13,314
May	29,824	4,146	11,947	18	13,712
June	28,468	3,285	11,228	31	13,923
July	30,855	4,378	11,756	101	14,620
August	33,338	4,707	13,628	63	14,940
Sept	28,678	3,644	11,785	51	13,199
October	25,957	2,745	10,123	42	13,047
November	25,825	2,218	10,029	35	13,543
December	29,656	3,892	11,374	37	14,353
Year 2020					
January	28,475	3,424	10,667	48	14,337
February	27,208	3,194	10,869	41	13,104
March	27,129	2,818	10,317	32	13,963
April	24,640	2,310	9,052	8	13,270
May	26,343	2,470	10,477	29	13,366
Year to Date					
2018	149,867	19,066	60,455	189	70,157
2019	142,747	19,109	55,194	223	68,222
2020	133,796	14,216	51,382	158	68,039
Rolling 12 Months Ending in May					
2019	354,583	45,898	138,027	554	170,104
2020	336,573	39,085	131,306	517	165,665

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	939,633	11,656	22,986	4,522	900,469
2018	929,365	10,297	21,623	4,806	892,639
2019	970,743	10,663	21,629	4,969	933,482
Year 2018					
January	81,175	844	2,115	454	77,762
February	73,007	878	2,141	474	69,514
March	78,989	948	1,966	493	75,583
April	73,967	869	1,533	339	71,225
May	77,198	673	1,679	319	74,528
June	75,544	655	1,683	402	72,805
July	80,237	991	1,899	382	76,964
August	79,868	854	1,930	417	76,667
Sept	73,254	655	1,676	336	70,587
October	76,266	1,005	1,607	329	73,326
November	76,373	891	1,635	343	73,503
December	83,486	1,033	1,759	518	80,175
Year 2019					
January	88,362	1,038	1,789	544	84,991
February	79,866	874	1,544	478	76,970
March	81,029	961	1,656	436	77,976
April	79,775	906	1,927	344	76,597
May	80,246	997	1,870	356	77,023
June	78,568	874	1,970	342	75,382
July	80,830	865	1,949	403	77,613
August	83,650	900	1,946	398	80,406
Sept	77,203	914	1,882	394	74,013
October	77,961	743	1,535	423	75,260
November	80,344	756	1,650	442	77,497
December	82,909	834	1,912	410	79,754
Year 2020					
January	76,322	805	2,074	484	72,959
February	70,708	859	1,874	454	67,521
March	71,551	839	1,934	353	68,425
April	71,126	684	1,623	238	68,581
May	75,779	311	2,554	322	72,593
Year to Date					
2018	384,337	4,212	9,434	2,079	368,612
2019	409,278	4,777	8,786	2,157	393,558
2020	365,487	3,498	10,060	1,851	350,078
Rolling 12 Months Ending in May					
2019	954,306	10,862	20,974	4,885	917,585
2020	926,953	9,384	22,903	4,662	890,003

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-May 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	1,303,279	54,462	174,862	4,982	1,068,972
2018	1,291,068	56,153	164,911	5,326	1,064,678
2019	1,316,268	54,641	156,746	5,552	1,099,329
Year 2018					
January	114,312	5,557	15,905	517	92,333
February	101,913	4,567	14,282	516	82,547
March	110,425	5,449	14,209	528	90,238
April	100,826	3,835	12,131	356	84,505
May	106,728	3,869	13,362	351	89,146
June	106,749	4,564	14,416	455	87,314
July	113,727	5,661	15,160	441	92,465
August	112,054	5,281	14,554	486	91,733
Sept	101,958	3,995	12,954	388	84,621
October	104,238	4,381	12,248	356	87,253
November	104,912	4,633	12,368	363	87,548
December	113,227	4,360	13,322	569	94,976
Year 2019					
January	119,738	5,558	14,389	596	99,195
February	107,112	4,640	11,960	535	89,977
March	109,147	4,518	12,160	508	91,960
April	105,958	4,025	11,653	368	89,912
May	110,071	5,144	13,818	374	90,735
June	107,036	4,159	13,198	373	89,306
July	111,684	5,243	13,705	505	92,232
August	116,988	5,608	15,574	461	95,346
Sept	105,881	4,558	13,666	446	87,212
October	103,918	3,488	11,658	464	88,307
November	106,170	2,974	11,679	477	91,040
December	112,565	4,726	13,286	447	94,107
Year 2020					
January	104,797	4,229	12,741	532	87,295
February	97,917	4,053	12,744	495	80,625
March	98,681	3,657	12,251	385	82,388
April	95,766	2,994	10,675	246	81,851
May	102,122	2,781	13,032	351	85,958
Year to Date					
2018	534,203	23,278	69,889	2,268	438,769
2019	552,025	23,886	63,979	2,380	461,779
2020	499,283	17,715	61,443	2,008	418,117
Rolling 12 Months Ending in May					
2019	1,308,889	56,760	159,001	5,439	1,087,689
2020	1,263,526	48,470	154,209	5,179	1,055,668

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 2018 and prior years are final. Values for 2019 and 2020 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, May 2020 and May 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	1	1	-13.0%	0	0	1	1	0	0	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	-5.7%	0	0	1	1	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	-34.0%	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	947	1,308	-28.0%	0	0	946	1,305	0	0	1	3
New Jersey	31	33	-6.9%	0	0	31	33	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	916	1,275	-28.0%	0	0	915	1,272	0	0	1	3
East North Central	4,839	8,918	-46.0%	2,754	5,434	2,035	3,438	1	2	49	44
Illinois	1,053	2,051	-49.0%	64	164	949	1,853	1	1	39	34
Indiana	1,314	2,411	-45.0%	1,138	2,306	176	103	0	1	0	0
Michigan	731	1,591	-54.0%	715	1,571	15	19	0	0	NM	NM
Ohio	984	1,618	-39.0%	89	155	895	1,463	0	0	0	0
Wisconsin	756	1,247	-39.0%	747	1,238	0	0	0	0	9	9
West North Central	5,663	6,885	-18.0%	5,597	6,786	0	0	0	1	66	98
Iowa	343	823	-58.0%	303	776	0	0	0	1	39	46
Kansas	739	749	-1.3%	739	749	0	0	0	0	0	0
Minnesota	364	864	-58.0%	360	849	0	0	0	0	4	15
Missouri	2,006	2,531	-21.0%	2,006	2,531	0	0	0	0	0	0
Nebraska	872	604	44.0%	852	569	0	0	0	0	20	35
North Dakota	1,333	1,229	8.4%	1,330	1,227	0	0	0	0	3	2
South Dakota	6	86	-93.0%	6	86	0	0	0	0	0	0
South Atlantic	3,322	6,580	-50.0%	3,074	6,140	240	427	1	0	7	13
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	581	906	-36.0%	580	906	0	0	0	0	0	NM
Georgia	296	1,593	-81.0%	293	1,591	0	0	0	0	3	2
Maryland	58	194	-70.0%	0	0	58	193	0	0	0	1
North Carolina	291	1,066	-73.0%	286	1,060	3	3	1	0	2	2
South Carolina	348	572	-39.0%	345	572	3	0	0	0	0	0
Virginia	2	128	-99.0%	0	119	0	3	0	0	2	6
West Virginia	1,746	2,120	-18.0%	1,570	1,893	176	227	0	0	0	0
East South Central	2,591	4,208	-38.0%	2,290	3,900	295	300	0	0	7	9
Alabama	646	991	-35.0%	646	991	0	0	0	0	0	1
Kentucky	1,277	1,974	-35.0%	1,277	1,974	0	0	0	0	0	0
Mississippi	373	428	-13.0%	77	128	295	300	0	0	0	0
Tennessee	296	815	-64.0%	289	807	0	0	0	0	7	8
West South Central	5,153	7,325	-30.0%	2,157	3,633	2,991	3,689	0	0	4	2
Arkansas	484	1,030	-53.0%	327	874	157	156	0	0	0	0
Louisiana	216	528	-59.0%	197	364	19	164	0	0	0	0
Oklahoma	172	337	-49.0%	168	336	0	0	0	0	4	2
Texas	4,282	5,429	-21.0%	1,466	2,060	2,815	3,369	0	0	0	0
Mountain	4,203	4,743	-11.0%	3,859	4,309	336	427	0	0	8	7
Arizona	601	877	-31.0%	601	877	0	0	0	0	0	0
Colorado	711	999	-29.0%	711	999	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	231	347	-33.0%	21	12	210	335	0	0	NM	NM
Nevada	62	58	6.1%	13	45	49	14	0	0	0	0
New Mexico	448	502	-11.0%	448	502	0	0	0	0	0	0
Utah	700	793	-12.0%	667	754	33	39	0	0	0	0
Wyoming	1,448	1,167	24.0%	1,397	1,121	44	40	0	0	7	6
Pacific Contiguous	5	5	-0.2%	0	0	0	0	0	0	5	5
California	5	4	7.9%	0	0	0	0	0	0	5	4
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	1	-67.0%	0	0	0	0	0	0	0	1
Pacific Noncontiguous	104	87	20.0%	NM	NM	66	67	3	2	0	0
Alaska	49	30	63.0%	NM	NM	11	10	3	2	0	0
Hawaii	56	57	-2.6%	0	0	56	57	0	0	0	0
U.S. Total	26,827	40,061	-33.0%	19,765	30,220	6,911	9,654	5	6	146	181

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 May 2020 and May 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	29	130	-78.0%	22	76	5	52	0	0	NM	2
Connecticut	0	46	-100.0%	0	0	0	46	0	0	0	0
Maine	6	8	-23.0%	0	0	5	6	0	0	NM	2
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	22	76	-71.0%	22	76	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	5,704	9,336	-39.0%	0	0	5,699	9,320	0	0	5	16
New Jersey	168	187	-10.0%	0	0	168	187	0	0	0	0
New York	64	147	-57.0%	0	0	64	147	0	0	0	0
Pennsylvania	5,471	9,002	-39.0%	0	0	5,466	8,986	0	0	5	16
East North Central	30,122	50,836	-41.0%	17,911	30,246	11,941	20,306	4	9	265	276
Illinois	5,880	12,965	-55.0%	354	871	5,313	11,888	2	5	211	202
Indiana	8,095	13,794	-41.0%	7,184	13,038	910	752	2	4	0	0
Michigan	4,970	9,123	-46.0%	4,883	9,051	82	62	0	0	5	10
Ohio	6,332	8,519	-26.0%	695	915	5,636	7,604	0	0	0	0
Wisconsin	4,845	6,435	-25.0%	4,795	6,372	0	0	0	0	50	63
West North Central	32,989	41,967	-21.0%	32,613	41,535	0	0	5	9	371	423
Iowa	2,476	5,308	-53.0%	2,280	5,102	0	0	4	7	192	199
Kansas	3,615	4,386	-18.0%	3,615	4,386	0	0	0	0	0	0
Minnesota	2,561	4,418	-42.0%	2,541	4,341	0	0	0	0	20	77
Missouri	10,993	13,852	-21.0%	10,992	13,851	0	0	1	1	0	0
Nebraska	4,727	5,100	-7.3%	4,581	4,965	0	0	0	0	146	135
North Dakota	8,195	8,177	0.2%	8,182	8,164	0	0	0	0	13	13
South Dakota	423	726	-42.0%	423	726	0	0	0	0	0	0
South Atlantic	15,204	26,152	-42.0%	13,829	23,358	1,314	2,713	4	7	58	74
Delaware	0	25	-100.0%	0	0	0	25	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,104	3,411	-38.0%	2,101	3,405	0	0	0	0	3	6
Georgia	1,378	5,236	-74.0%	1,362	5,221	0	0	0	0	16	15
Maryland	246	892	-72.0%	0	0	246	884	0	0	0	8
North Carolina	1,846	3,819	-52.0%	1,816	3,774	14	27	4	6	11	11
South Carolina	1,656	2,408	-31.0%	1,652	2,407	3	0	0	0	1	1
Virginia	427	642	-34.0%	395	564	5	45	0	1	26	33
West Virginia	7,547	9,718	-22.0%	6,501	7,986	1,046	1,732	0	0	0	0
East South Central	14,545	20,778	-30.0%	13,199	19,499	1,307	1,232	0	0	39	46
Alabama	3,777	5,464	-31.0%	3,775	5,458	0	0	0	0	NM	6
Kentucky	7,543	10,232	-26.0%	7,543	10,232	0	0	0	0	0	0
Mississippi	1,559	1,735	-10.0%	253	502	1,307	1,232	0	0	0	0
Tennessee	1,666	3,347	-50.0%	1,629	3,306	0	0	0	0	37	41
West South Central	23,282	35,299	-34.0%	9,643	18,470	13,611	16,798	0	0	28	31
Arkansas	2,811	5,130	-45.0%	2,114	4,395	694	731	0	0	3	4
Louisiana	684	2,115	-68.0%	605	1,313	79	803	0	0	0	0
Oklahoma	549	2,481	-78.0%	453	2,415	72	39	0	0	25	27
Texas	19,238	25,572	-25.0%	6,471	10,347	12,766	15,225	0	0	0	0
Mountain	24,459	31,395	-22.0%	21,336	27,223	3,081	4,134	0	0	42	39
Arizona	2,480	5,077	-51.0%	2,480	5,077	0	0	0	0	0	0
Colorado	4,710	5,851	-20.0%	4,710	5,850	0	0	0	0	0	1
Idaho	2	2	-2.3%	0	0	0	0	0	0	2	2
Montana	2,634	3,639	-28.0%	94	115	2,538	3,523	0	0	2	1
Nevada	313	616	-49.0%	67	386	246	230	0	0	0	0
New Mexico	2,718	2,871	-5.3%	2,718	2,871	0	0	0	0	0	0
Utah	3,767	4,702	-20.0%	3,679	4,532	88	170	0	0	0	0
Wyoming	7,836	8,637	-9.3%	7,589	8,392	209	211	0	0	38	34
Pacific Contiguous	1,194	2,028	-41.0%	370	483	797	1,517	0	0	27	28
California	24	25	-4.3%	0	0	0	0	0	0	24	25
Oregon	370	483	-23.0%	370	483	0	0	0	0	0	0
Washington	800	1,521	-47.0%	0	0	797	1,517	0	0	3	3
Pacific Noncontiguous	502	498	0.8%	158	148	328	337	16	13	0	0
Alaska	232	214	8.4%	158	148	58	53	16	13	0	0
Hawaii	270	284	-5.0%	0	0	270	284	0	0	0	0
U.S. Total	148,030	218,418	-32.0%	109,082	161,036	38,083	56,409	29	38	836	935

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, May 2020 and May 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	21	22	-5.3%	NM	NM	15	NM	1	2	0	0
Connecticut	NM	NM	NM	1	1	NM	NM	NM	NM	0	0
Maine	1	1	-34.0%	0	0	0	0	0	1	0	0
Massachusetts	NM	NM	NM	NM	NM	NM	NM	NM	1	0	0
New Hampshire	2	1	65.0%	2	0	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	33	70	-53.0%	NM	8	24	57	NM	NM	3	3
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	12	25	-52.0%	NM	8	NM	15	NM	NM	1	1
Pennsylvania	17	40	-58.0%	0	0	15	37	0	1	2	2
East North Central	63	77	-18.0%	46	58	17	18	0	0	0	NM
Illinois	6	8	-30.0%	1	1	5	7	NM	NM	0	0
Indiana	14	19	-25.0%	14	19	0	0	0	0	0	0
Michigan	19	13	44.0%	19	13	0	0	NM	0	0	NM
Ohio	17	30	-44.0%	4	18	12	11	0	0	0	0
Wisconsin	8	NM	NM	8	NM	0	0	0	NM	0	0
West North Central	50	65	-23.0%	49	64	NM	NM	0	0	0	0
Iowa	7	12	-44.0%	6	11	NM	1	0	0	0	0
Kansas	14	16	-9.5%	14	16	0	0	0	0	0	0
Minnesota	9	NM	NM	8	NM	NM	NM	0	0	0	0
Missouri	10	14	-32.0%	10	14	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	7	5	37.0%	7	5	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	128	188	-32.0%	89	149	16	21	17	11	6	7
Delaware	NM	NM	NM	0	0	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	32	64	-51.0%	27	63	4	0	0	0	1	1
Georgia	8	14	-44.0%	4	8	NM	NM	0	0	3	5
Maryland	6	9	-42.0%	NM	NM	5	9	NM	0	0	0
North Carolina	31	37	-18.0%	29	36	NM	NM	NM	NM	1	NM
South Carolina	10	16	-37.0%	9	15	0	0	0	NM	1	1
Virginia	27	26	1.8%	NM	9	3	7	16	10	1	NM
West Virginia	12	17	-28.0%	12	17	0	0	0	0	0	0
East South Central	34	52	-35.0%	34	51	NM	NM	0	0	NM	1
Alabama	NM	4	NM	0	3	NM	NM	0	0	NM	1
Kentucky	13	16	-17.0%	13	16	0	0	0	0	0	0
Mississippi	3	3	-1.4%	2	2	0	0	0	0	0	0
Tennessee	18	30	-40.0%	18	30	0	0	0	0	0	0
West South Central	27	35	-22.0%	24	24	3	9	0	0	0	1
Arkansas	6	11	-41.0%	6	7	1	4	0	0	0	0
Louisiana	4	5	-23.0%	4	5	0	0	0	0	0	0
Oklahoma	7	5	25.0%	6	5	0	0	0	0	0	0
Texas	10	14	-25.0%	8	8	2	6	0	0	0	0
Mountain	24	43	-43.0%	20	39	5	NM	NM	NM	0	0
Arizona	6	13	-55.0%	6	13	0	0	NM	NM	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	3	NM	NM	NM	NM	3	NM	0	0	0	0
Nevada	1	2	-16.0%	1	1	0	1	0	0	0	0
New Mexico	3	11	-71.0%	3	11	0	0	0	0	0	0
Utah	6	7	-12.0%	5	7	1	0	0	0	0	0
Wyoming	4	6	-39.0%	4	6	0	0	0	0	0	0
Pacific Contiguous	7	NM	NM	4	NM	1	1	NM	NM	2	NM
California	6	6	-2.6%	4	NM	0	1	0	0	1	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM
Pacific Noncontiguous	874	1,093	-20.0%	687	826	165	242	1	2	20	24
Alaska	114	133	-14.0%	111	128	0	0	NM	0	4	5
Hawaii	759	960	-21.0%	576	698	165	242	1	1	17	19
U.S. Total	1,260	1,653	-24.0%	961	1,227	247	370	20	18	33	37

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 May 2020 and May 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	138	243	-43.0%	16	29	109	191	10	18	3	6
Connecticut	62	90	-32.0%	3	3	58	82	NM	3	0	2
Maine	13	14	-4.3%	0	0	9	7	2	3	3	4
Massachusetts	39	97	-59.0%	NM	NM	31	82	NM	4	0	1
New Hampshire	11	22	-51.0%	5	13	NM	NM	6	7	0	0
Rhode Island	NM	19	NM	0	0	NM	NM	0	1	NM	NM
Vermont	1	NM	NM	1	NM	0	0	0	0	0	0
Middle Atlantic	321	930	-65.0%	62	289	242	612	NM	NM	11	20
New Jersey	43	84	-49.0%	0	3	42	81	0	0	0	0
New York	175	589	-70.0%	62	286	107	286	NM	NM	3	10
Pennsylvania	103	258	-60.0%	0	0	93	245	NM	4	8	9
East North Central	305	391	-22.0%	208	233	95	150	1	2	2	6
Illinois	22	37	-39.0%	4	5	18	32	NM	NM	0	0
Indiana	85	99	-14.0%	84	96	0	0	0	0	1	3
Michigan	72	70	3.1%	71	68	0	0	0	1	0	1
Ohio	87	144	-40.0%	12	30	74	113	0	0	1	2
Wisconsin	NM	41	NM	NM	35	3	5	0	1	0	0
West North Central	248	314	-21.0%	243	302	NM	NM	0	1	0	1
Iowa	41	56	-27.0%	39	54	2	3	0	0	0	0
Kansas	78	51	52.0%	78	51	0	0	0	0	0	0
Minnesota	27	40	-31.0%	NM	31	NM	NM	0	1	0	1
Missouri	50	100	-50.0%	50	100	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	30	38	-20.0%	30	38	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	610	991	-38.0%	442	707	87	205	52	40	28	38
Delaware	NM	41	NM	0	0	NM	41	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	116	192	-40.0%	105	183	6	2	0	0	5	6
Georgia	44	85	-48.0%	28	53	NM	10	1	1	13	21
Maryland	41	89	-54.0%	1	2	40	86	NM	0	0	1
North Carolina	110	216	-49.0%	103	204	3	7	NM	NM	4	4
South Carolina	53	79	-33.0%	50	72	1	2	0	NM	2	4
Virginia	113	211	-46.0%	40	114	17	56	51	38	5	2
West Virginia	116	78	48.0%	115	78	0	1	0	0	0	0
East South Central	143	237	-40.0%	140	230	1	2	0	0	3	6
Alabama	4	16	-77.0%	2	11	1	2	0	0	1	3
Kentucky	54	73	-27.0%	54	73	0	0	0	0	0	0
Mississippi	7	14	-47.0%	7	13	0	0	0	0	1	1
Tennessee	78	134	-42.0%	77	132	0	0	0	0	1	2
West South Central	90	115	-21.0%	68	81	21	29	0	0	1	4
Arkansas	34	38	-11.0%	28	24	6	12	0	0	0	1
Louisiana	6	10	-36.0%	6	10	0	0	0	0	0	0
Oklahoma	11	18	-40.0%	10	17	0	0	0	0	0	1
Texas	40	49	-19.0%	24	31	15	16	0	0	1	2
Mountain	135	180	-25.0%	127	168	8	12	NM	NM	0	0
Arizona	28	57	-50.0%	28	57	0	0	NM	NM	0	0
Colorado	NM	14	NM	NM	14	0	0	0	0	0	0
Idaho	0	0	0.0%	0	0	0	0	0	0	0	0
Montana	NM	12	NM	NM	NM	6	9	0	0	0	0
Nevada	5	9	-42.0%	4	7	1	2	0	0	0	0
New Mexico	29	34	-14.0%	29	34	0	0	0	0	0	0
Utah	28	30	-5.9%	27	29	2	1	0	0	0	0
Wyoming	31	24	26.0%	31	24	0	0	0	0	0	0
Pacific Contiguous	48	52	-7.4%	31	29	10	8	NM	NM	6	14
California	33	41	-19.0%	25	26	5	3	0	0	3	10
Oregon	NM	NM	NM	2	2	0	0	NM	NM	0	0
Washington	13	9	45.0%	NM	NM	5	4	0	0	4	4
Pacific Noncontiguous	4,806	4,879	-1.5%	3,944	3,843	742	912	13	11	108	112
Alaska	736	647	14.0%	708	618	0	0	3	4	25	24
Hawaii	4,070	4,232	-3.8%	3,236	3,225	742	912	10	7	83	88
U.S. Total	6,846	8,333	-18.0%	5,280	5,910	1,321	2,130	82	85	163	208

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.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, May 2020 and May 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
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	2	-100.0%	0	0	0	0	0	0	0	2
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	0	NM	NM	0	0	0	0	0	0	0	NM
East North Central	89	97	-8.0%	45	45	39	48	0	0	5	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	48	47	0.3%	43	44	0	0	0	0	5	4
Ohio	39	48	-17.0%	0	0	39	48	0	0	0	0
Wisconsin	2	2	27.0%	2	2	0	0	0	0	0	0
West North Central	1	0	--	0	0	0	0	0	0	1	0
Iowa	1	0	--	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	47	-34.0%	30	45	0	0	0	0	2	3
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	30	45	-33.0%	30	45	0	0	0	0	0	0
Georgia	2	3	-48.0%	0	0	0	0	0	0	2	3
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	112	136	-17.0%	109	130	0	0	0	0	3	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	109	130	-16.0%	109	130	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	6	-46.0%	0	0	0	0	0	0	3	6
Mountain	15	16	-6.6%	0	0	15	16	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	15	16	-6.6%	0	0	15	16	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	248	298	-17.0%	183	219	54	63	0	0	11	15

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 May 2020 and May 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 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	2	8	-77.0%	0	0	0	0	0	0	2	8
New Jersey	2	3	-40.0%	0	0	0	0	0	0	2	3
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	5	-100.0%	0	0	0	0	0	0	0	5
East North Central	341	428	-20.0%	162	193	154	214	0	0	25	21
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	173	201	-14.0%	148	180	0	0	0	0	25	21
Ohio	154	214	-28.0%	0	0	154	214	0	0	0	0
Wisconsin	15	14	5.0%	15	14	0	0	0	0	0	0
West North Central	4	1	238.0%	0	0	0	0	1	1	3	0
Iowa	4	1	238.0%	0	0	0	0	1	1	3	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	221	220	0.4%	208	207	0	0	0	0	12	13
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	208	207	0.9%	208	207	0	0	0	0	0	0
Georgia	12	13	-7.5%	0	0	0	0	0	0	12	13
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	570	626	-9.0%	552	601	0	0	0	0	18	25
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	552	602	-8.3%	552	601	0	0	0	0	0	1
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	18	24	-27.0%	0	0	0	0	0	0	18	24
Mountain	72	75	-3.6%	0	0	72	75	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	72	75	-3.6%	0	0	72	75	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	1,210	1,358	-11.0%	923	1,001	227	289	1	1	60	67

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, May 2020 and May 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	20,731	23,068	-10.0%	NM	NM	19,628	21,911	409	382	607	704
Connecticut	10,723	10,793	-0.6%	28	25	10,260	10,329	158	127	277	312
Maine	989	746	33.0%	0	0	836	585	12	11	142	150
Massachusetts	3,614	6,239	-42.0%	NM	NM	3,275	5,859	216	223	69	117
New Hampshire	1,136	290	292.0%	1	5	1,120	267	2	2	13	16
Rhode Island	4,265	4,999	-15.0%	0	0	4,138	4,872	21	20	NM	107
Vermont	3	0	NM	2	0	0	0	0	0	0	0
Middle Atlantic	87,451	91,034	-3.9%	4,582	5,540	81,367	83,900	504	589	997	1,005
New Jersey	11,934	19,699	-39.0%	NM	NM	11,656	19,404	NM	75	158	156
New York	22,790	23,055	-1.2%	4,501	5,475	17,614	16,898	427	466	247	216
Pennsylvania	52,727	48,280	9.2%	3	0	52,097	47,599	36	48	592	633
East North Central	82,306	76,751	7.2%	31,013	24,000	48,341	49,894	574	631	2,378	2,226
Illinois	9,304	8,495	9.5%	302	598	8,550	7,385	136	152	315	360
Indiana	17,731	16,070	10.0%	9,177	6,199	7,160	8,552	79	86	1,314	1,233
Michigan	18,554	17,284	7.3%	6,392	4,496	11,643	12,293	228	268	290	228
Ohio	25,914	25,775	0.5%	5,427	4,623	20,322	20,993	73	86	91	73
Wisconsin	10,803	9,126	18.0%	9,714	8,085	665	672	57	38	367	331
West North Central	14,009	16,605	-16.0%	11,960	13,691	1,728	2,580	129	150	192	184
Iowa	3,927	2,901	35.0%	3,808	2,789	NM	NM	30	43	89	63
Kansas	1,063	3,281	-68.0%	1,042	3,215	0	0	0	0	20	66
Minnesota	4,202	3,966	5.9%	3,526	3,383	592	509	39	34	46	40
Missouri	2,861	4,991	-43.0%	1,659	2,852	1,136	2,065	56	67	10	7
Nebraska	NM	591	NM	NM	585	0	0	4	6	0	0
North Dakota	716	541	32.0%	689	532	0	0	0	0	26	8
South Dakota	NM	NM	NM	NM	NM	0	0	0	0	0	0
South Atlantic	231,284	236,197	-2.1%	189,712	196,320	38,137	36,350	864	985	2,571	2,542
Delaware	2,332	2,445	-4.6%	8	10	1,889	1,946	0	0	435	489
District of Columbia	0	18	-98.0%	0	0	0	0	0	18	0	0
Florida	110,694	124,811	-11.0%	105,296	118,560	4,712	5,532	10	8	677	711
Georgia	35,345	34,272	3.1%	26,246	25,694	8,780	8,248	0	1	319	329
Maryland	6,424	8,647	-26.0%	630	1,576	5,005	6,153	771	885	18	33
North Carolina	22,163	23,163	-4.3%	17,671	17,634	4,344	5,401	NM	NM	70	55
South Carolina	15,825	15,783	0.3%	15,454	15,369	271	365	0	0	100	49
Virginia	36,312	26,080	39.0%	24,356	17,447	11,229	8,004	4	2	723	627
West Virginia	2,189	979	124.0%	50	30	1,908	701	0	0	231	249
East South Central	80,422	85,872	-6.3%	59,889	61,773	19,230	22,851	83	59	1,220	1,189
Alabama	30,286	36,192	-16.0%	10,905	15,395	18,795	20,204	0	0	585	593
Kentucky	8,826	7,868	12.0%	8,317	7,777	427	11	0	0	82	80
Mississippi	34,374	30,893	11.0%	34,189	28,088	2	2,625	0	0	183	180
Tennessee	6,937	10,919	-36.0%	6,478	10,512	6	12	83	59	370	336
West South Central	222,357	228,113	-2.5%	87,678	86,498	104,082	108,577	312	428	30,286	32,611
Arkansas	7,791	11,513	-32.0%	7,088	10,911	582	437	NM	NM	89	133
Louisiana	42,741	44,503	-4.0%	27,669	27,591	3,206	3,485	69	47	11,797	13,380
Oklahoma	27,952	20,809	34.0%	18,036	12,944	9,587	7,618	0	0	329	247
Texas	143,873	151,288	-4.9%	34,885	35,053	90,706	97,037	210	348	18,072	18,851
Mountain	70,143	60,273	16.0%	56,569	49,314	12,518	9,923	131	183	924	854
Arizona	32,593	23,567	38.0%	25,699	17,472	6,847	6,045	48	50	0	0
Colorado	9,189	9,310	-1.3%	8,058	8,143	1,103	1,139	0	0	28	27
Idaho	1,149	875	31.0%	NM	NM	666	674	14	14	35	37
Montana	285	255	12.0%	270	253	NM	NM	0	0	NM	NM
Nevada	14,524	12,435	17.0%	13,028	10,953	1,345	1,350	19	23	132	109
New Mexico	7,518	7,811	-3.7%	4,975	7,095	2,502	667	41	42	0	7
Utah	4,325	5,509	-21.0%	3,958	5,045	42	43	10	54	315	368
Wyoming	559	512	9.2%	NM	203	0	4	0	0	412	306
Pacific Contiguous	38,974	33,063	18.0%	14,469	10,830	18,122	15,872	738	811	5,645	5,549
California	32,604	27,096	20.0%	9,895	7,636	16,820	13,202	714	793	5,176	5,465
Oregon	3,132	3,158	-0.8%	2,032	1,633	1,015	1,475	17	18	67	32
Washington	3,238	2,809	15.0%	2,542	1,562	NM	1,195	7	1	403	52
Pacific Noncontiguous	1,617	1,509	7.1%	1,591	1,483	0	0	0	0	26	26
Alaska	1,617	1,509	7.1%	1,591	1,483	0	0	0	0	26	26
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	849,293	852,486	-0.4%	457,548	449,520	343,154	351,859	3,743	4,218	44,847	46,890

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 May 2020 and May 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	127,243	128,444	-0.9%	NM	NM	121,040	122,611	2,187	2,124	3,677	3,353
Connecticut	61,232	54,476	12.0%	115	140	58,717	52,094	846	816	1,554	1,426
Maine	3,514	4,046	-13.0%	0	0	2,598	3,288	63	59	852	699
Massachusetts	32,756	43,826	-25.0%	NM	NM	30,732	41,893	1,179	1,151	631	583
New Hampshire	7,646	5,650	35.0%	4	12	7,559	5,542	13	19	70	77
Rhode Island	22,087	20,438	8.1%	0	0	21,434	19,793	84	76	569	568
Vermont	8	8	7.5%	6	5	0	0	2	3	0	0
Middle Atlantic	506,915	466,685	8.6%	30,144	31,398	468,304	426,548	2,833	3,031	5,635	5,709
New Jersey	75,619	102,225	-26.0%	NM	NM	74,042	100,657	281	325	881	823
New York	133,603	129,195	3.4%	29,724	30,965	99,943	94,246	2,328	2,413	1,608	1,570
Pennsylvania	297,692	235,265	27.0%	4	12	294,320	231,645	224	293	3,146	3,316
East North Central	476,766	420,248	13.0%	178,417	145,362	283,383	260,304	3,093	3,156	11,873	11,426
Illinois	58,208	47,027	24.0%	7,546	2,606	48,266	42,028	814	774	1,582	1,619
Indiana	93,381	85,126	9.7%	42,286	35,560	44,788	43,139	359	366	5,947	6,061
Michigan	108,475	91,431	19.0%	40,286	29,082	65,289	59,544	1,295	1,371	1,605	1,434
Ohio	149,322	141,999	5.2%	26,851	28,521	121,598	112,603	371	408	502	467
Wisconsin	67,380	54,665	23.0%	61,447	49,593	3,441	2,991	254	237	2,237	1,844
West North Central	84,333	77,883	8.3%	69,845	66,337	12,037	9,395	670	703	1,781	1,448
Iowa	18,106	16,775	7.9%	17,061	15,744	NM	NM	192	202	853	803
Kansas	8,349	8,684	-3.9%	7,846	8,410	0	0	0	0	503	273
Minnesota	25,423	24,594	3.4%	21,362	21,492	3,616	2,599	192	231	252	272
Missouri	19,414	19,397	0.1%	10,658	12,319	8,421	6,769	270	257	66	51
Nebraska	3,570	2,399	49.0%	3,553	2,386	0	0	16	13	0	0
North Dakota	5,255	3,607	46.0%	5,148	3,559	0	0	0	0	107	49
South Dakota	4,217	2,427	74.0%	4,217	2,427	0	0	0	0	0	0
South Atlantic	1,122,387	1,042,934	7.6%	925,890	865,997	179,148	160,122	4,292	4,797	13,057	12,019
Delaware	10,569	10,844	-2.5%	12	17	8,127	8,535	0	0	2,430	2,292
District of Columbia	148	228	-35.0%	0	0	0	0	148	228	0	0
Florida	523,358	498,170	5.1%	497,652	476,973	22,165	17,781	52	48	3,489	3,368
Georgia	158,534	148,614	6.7%	119,506	114,270	37,244	32,820	0	1	1,784	1,524
Maryland	40,980	43,918	-6.7%	8,492	12,065	28,779	27,575	3,622	4,100	87	178
North Carolina	123,406	120,636	2.3%	100,179	97,442	22,419	22,483	426	386	382	325
South Carolina	73,787	64,153	15.0%	71,954	61,203	1,353	2,625	0	0	481	325
Virginia	185,346	153,019	21.0%	128,009	103,429	53,868	46,444	43	35	3,426	3,111
West Virginia	6,258	3,352	87.0%	86	598	5,194	1,859	0	0	978	896
East South Central	373,635	366,133	2.0%	273,730	252,618	93,310	107,094	454	392	6,141	6,030
Alabama	139,998	150,379	-6.9%	48,367	56,108	88,661	91,248	0	0	2,971	3,022
Kentucky	35,782	39,098	-8.5%	34,597	37,472	759	1,225	0	0	426	402
Mississippi	154,664	130,707	18.0%	149,902	115,207	3,831	14,561	0	0	931	938
Tennessee	43,191	45,950	-6.0%	40,864	43,831	60	60	454	392	1,813	1,668
West South Central	1,044,718	977,475	6.9%	418,675	369,683	461,016	444,377	1,816	2,010	163,211	161,405
Arkansas	44,704	52,037	-14.0%	41,042	48,225	3,025	2,952	NM	NM	469	693
Louisiana	205,360	195,506	5.0%	132,467	116,541	10,129	11,902	345	291	62,418	66,772
Oklahoma	134,257	109,355	23.0%	87,245	70,837	45,452	37,216	0	0	1,560	1,302
Texas	660,397	620,577	6.4%	157,922	134,080	402,409	392,307	1,302	1,552	98,764	92,638
Mountain	340,031	306,483	11.0%	271,950	243,671	62,075	56,772	862	943	5,145	5,098
Arizona	131,837	113,788	16.0%	101,109	88,026	30,491	25,513	237	249	0	0
Colorado	54,931	48,005	14.0%	46,626	39,921	8,126	7,935	27	7	152	142
Idaho	11,495	9,198	25.0%	5,904	3,850	5,257	5,047	73	69	262	232
Montana	1,668	2,012	-17.0%	1,488	1,376	168	627	0	0	12	10
Nevada	72,304	64,996	11.0%	65,308	57,986	6,043	6,018	95	112	858	880
New Mexico	39,826	37,435	6.4%	27,744	25,810	11,768	11,403	193	212	121	10
Utah	24,384	28,439	-14.0%	22,342	25,771	215	219	236	294	1,592	2,155
Wyoming	3,585	2,609	37.0%	1,430	931	9	10	0	0	2,147	1,669
Pacific Contiguous	295,858	279,932	5.7%	123,302	109,866	141,226	138,931	3,833	4,081	27,497	27,053
California	203,825	201,858	1.0%	68,471	68,828	105,407	102,433	3,711	3,961	26,236	26,637
Oregon	54,931	50,592	8.6%	27,795	24,002	26,711	26,302	98	91	327	197
Washington	37,102	27,482	35.0%	27,036	17,037	9,109	10,196	23	29	933	220
Pacific Noncontiguous	12,165	10,925	11.0%	12,054	10,797	0	0	0	0	111	128
Alaska	12,165	10,925	11.0%	12,054	10,797	0	0	0	0	111	128
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,384,051	4,077,142	7.5%	2,304,347	2,096,085	1,821,538	1,726,154	20,038	21,235	238,127	233,669

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, May 2020 and May 2019 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	866	717	21.0%	0	0	855	701	11	16	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	50	48	3.7%	0	0	50	48	0	0	0	0
Massachusetts	303	292	3.7%	0	0	303	292	0	0	0	0
New Hampshire	77	83	-7.6%	0	0	66	67	11	16	0	0
Rhode Island	404	258	57.0%	0	0	404	258	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	3,605	3,798	-5.1%	0	0	3,544	3,679	0	NM	61	86
New Jersey	465	493	-5.8%	0	0	465	483	0	NM	0	0
New York	1,238	1,252	-1.1%	0	0	1,238	1,252	0	0	0	0
Pennsylvania	1,902	2,053	-7.4%	0	0	1,842	1,944	0	NM	61	86
East North Central	4,775	4,958	-3.7%	745	753	3,992	4,142	19	41	19	22
Illinois	837	846	-1.0%	201	200	637	646	0	0	0	0
Indiana	648	646	0.3%	544	553	104	93	0	0	0	0
Michigan	1,610	1,667	-3.4%	0	0	1,610	1,667	0	0	0	0
Ohio	917	937	-2.2%	0	0	917	937	0	0	0	0
Wisconsin	762	862	-12.0%	0	0	725	798	19	41	19	22
West North Central	764	722	5.8%	237	234	527	488	0	0	0	0
Iowa	221	194	14.0%	0	0	221	194	0	0	0	0
Kansas	120	116	3.8%	0	0	120	116	0	0	0	0
Minnesota	163	158	3.7%	NM	48	114	110	0	0	0	0
Missouri	130	125	3.5%	58	56	72	69	0	0	0	0
Nebraska	130	130	0.1%	130	130	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	3,885	3,936	-1.3%	356	319	3,419	3,438	NM	NM	NM	106
Delaware	87	82	5.5%	0	0	78	75	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	805	781	3.1%	171	138	634	643	0	0	0	0
Georgia	510	606	-16.0%	0	0	510	588	0	0	0	18
Maryland	147	172	-15.0%	0	0	126	121	NM	NM	0	0
North Carolina	858	826	3.9%	0	0	857	815	NM	NM	0	0
South Carolina	280	282	-0.9%	181	175	NM	NM	0	0	NM	NM
Virginia	1,198	1,187	0.9%	4	6	1,187	1,169	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	409	387	5.7%	170	164	239	223	0	0	0	0
Alabama	63	61	3.7%	0	0	63	61	0	0	0	0
Kentucky	189	175	8.1%	170	164	19	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	137	132	3.8%	0	0	137	132	0	0	0	0
West South Central	882	905	-2.6%	0	0	882	905	0	0	0	0
Arkansas	90	86	3.7%	0	0	90	86	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	755	783	-3.6%	0	0	755	783	0	0	0	0
Mountain	446	432	3.4%	NM	NM	377	390	48	20	0	0
Arizona	72	69	3.8%	0	0	72	69	0	0	0	0
Colorado	81	78	3.8%	0	0	81	78	0	0	0	0
Idaho	46	48	-5.7%	NM	NM	NM	NM	18	20	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	120	115	3.7%	0	0	120	115	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	120	113	6.6%	0	0	90	113	30	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,208	3,202	31.0%	110	105	3,129	2,836	969	261	0	0
California	3,676	2,685	37.0%	NM	NM	2,718	2,440	951	239	0	0
Oregon	439	427	3.0%	102	99	319	306	NM	NM	0	0
Washington	93	90	3.7%	0	0	93	90	0	0	0	0
Pacific Noncontiguous	68	59	15.0%	0	0	0	0	68	59	0	0
Alaska	68	59	15.0%	0	0	0	0	68	59	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	19,908	19,116	4.1%	1,640	1,596	16,965	16,802	1,144	503	160	214

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 May 2020 and May 2019 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	4,324	3,869	12.0%	0	0	4,250	3,764	73	104	0	0
Connecticut	80	93	-14.0%	0	0	80	93	0	0	0	0
Maine	251	242	3.8%	0	0	251	242	0	0	0	0
Massachusetts	1,518	1,452	4.5%	0	0	1,518	1,452	0	0	0	0
New Hampshire	407	432	-5.7%	0	0	334	327	73	104	0	0
Rhode Island	1,974	1,559	27.0%	0	0	1,974	1,559	0	0	0	0
Vermont	94	89	4.8%	0	0	94	89	0	0	0	0
Middle Atlantic	18,666	19,159	-2.6%	0	0	18,123	18,475	138	231	405	453
New Jersey	2,164	2,757	-22.0%	0	0	2,119	2,688	NM	NM	0	0
New York	6,274	6,134	2.3%	0	0	6,274	6,134	0	0	0	0
Pennsylvania	10,228	10,268	-0.4%	0	0	9,729	9,653	NM	162	405	453
East North Central	23,960	24,249	-1.2%	3,733	3,677	19,982	20,285	138	176	108	112
Illinois	4,197	4,078	2.9%	1,005	978	3,192	3,100	0	0	0	0
Indiana	3,208	3,160	1.5%	2,727	2,699	481	462	0	0	0	0
Michigan	8,171	8,197	-0.3%	0	0	8,171	8,197	0	0	0	0
Ohio	4,246	4,642	-8.5%	0	0	4,246	4,642	0	0	0	0
Wisconsin	4,138	4,172	-0.8%	0	0	3,892	3,884	138	176	108	112
West North Central	3,763	3,582	5.0%	1,197	1,211	2,566	2,371	0	0	0	0
Iowa	1,043	920	13.0%	0	0	1,043	920	0	0	0	0
Kansas	597	568	5.0%	0	0	597	568	0	0	0	0
Minnesota	828	799	3.7%	261	259	567	539	0	0	0	0
Missouri	671	655	2.4%	312	312	359	343	0	0	0	0
Nebraska	623	639	-2.5%	623	639	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	19,772	19,469	1.6%	1,726	1,622	17,103	16,668	301	512	642	667
Delaware	438	422	3.7%	0	0	393	379	0	0	NM	44
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,953	3,802	4.0%	764	678	3,189	3,124	0	0	0	0
Georgia	2,607	2,741	-4.9%	0	0	2,552	2,687	0	0	55	54
Maryland	812	969	-16.0%	0	0	633	608	178	361	0	0
North Carolina	4,257	4,106	3.7%	0	0	4,207	4,034	NM	NM	0	0
South Carolina	1,620	1,619	0.0%	938	916	140	134	0	0	542	569
Virginia	6,085	5,809	4.8%	24	29	5,989	5,702	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,043	1,957	4.4%	856	825	1,187	1,132	0	0	0	0
Alabama	316	303	4.4%	0	0	316	303	0	0	0	0
Kentucky	940	903	4.1%	856	825	84	78	0	0	0	0
Mississippi	99	94	4.9%	0	0	99	94	0	0	0	0
Tennessee	687	657	4.6%	0	0	687	657	0	0	0	0
West South Central	4,357	4,688	-7.1%	0	0	4,357	4,499	0	189	0	0
Arkansas	449	430	4.5%	0	0	449	430	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	185	177	4.8%	0	0	185	177	0	0	0	0
Texas	3,722	4,081	-8.8%	0	0	3,722	3,892	0	189	0	0
Mountain	2,235	2,274	-1.7%	107	105	1,911	2,017	217	153	0	0
Arizona	357	341	4.8%	0	0	357	341	0	0	0	0
Colorado	404	385	4.9%	0	0	404	385	0	0	0	0
Idaho	219	203	7.5%	107	105	NM	NM	75	61	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	606	583	3.8%	0	0	606	583	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	605	716	-16.0%	0	0	463	624	142	92	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	21,059	19,432	8.4%	591	507	15,169	14,498	5,299	4,427	0	0
California	18,369	16,893	8.7%	88	NM	13,126	12,582	5,156	4,278	0	0
Oregon	2,224	2,093	6.3%	504	474	1,577	1,469	144	149	0	0
Washington	466	447	4.4%	0	0	466	447	0	0	0	0
Pacific Noncontiguous	321	290	11.0%	0	0	0	0	321	290	0	0
Alaska	321	290	11.0%	0	0	0	0	321	290	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	100,500	98,968	1.5%	8,210	7,947	84,647	83,708	6,487	6,081	1,156	1,232

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, May 2020 and May 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	288	275	4.8%	0	0	278	264	10	11	0	0
Connecticut	107	108	-1.3%	0	0	107	108	0	0	0	0
Maine	19	20	-5.1%	0	0	9	9	10	11	0	0
Massachusetts	154	139	11.0%	0	0	154	139	0	0	0	0
New Hampshire	8	8	3.8%	0	0	8	8	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	435	429	1.5%	0	0	345	345	90	84	0	0
New Jersey	109	107	1.8%	0	0	83	82	26	25	0	0
New York	165	160	3.5%	0	0	125	116	40	43	0	0
Pennsylvania	161	162	-0.6%	0	0	137	146	24	16	0	0
East North Central	15	16	-2.9%	3	3	0	0	12	12	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	2	21.0%	0	0	0	0	2	2	0	0
Michigan	10	11	-5.2%	0	0	0	0	10	11	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-6.4%	3	3	0	0	0	0	0	0
West North Central	36	44	-18.0%	21	23	15	21	NM	NM	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	36	44	-18.0%	21	23	15	21	NM	NM	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	434	468	-7.3%	0	0	397	427	37	42	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	291	310	-6.2%	0	0	291	310	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	47	55	-13.0%	0	0	47	55	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	96	104	-7.4%	0	0	59	62	37	42	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	1	49.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	49.0%	0	0	0	0	0	0	1	1
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	36	51	-29.0%	0	0	36	51	0	0	0	0
California	24	32	-24.0%	0	0	24	32	0	0	0	0
Oregon	0	10	-100.0%	0	0	0	10	0	0	0	0
Washington	12	9	28.0%	0	0	12	9	0	0	0	0
Pacific Noncontiguous	34	40	-17.0%	0	0	0	0	34	40	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	34	40	-17.0%	0	0	0	0	34	40	0	0
U.S. Total	1,279	1,324	-3.3%	24	26	1,071	1,107	183	189	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.
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 May 2020 and May 2019 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	1,359	1,342	1.3%	0	0	1,307	1,278	52	63	0	0
Connecticut	472	462	2.0%	0	0	472	462	0	0	0	0
Maine	96	108	-11.0%	0	0	44	44	52	63	0	0
Massachusetts	745	724	3.0%	0	0	745	724	0	0	0	0
New Hampshire	46	48	-2.8%	0	0	46	48	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,079	2,013	3.3%	0	0	1,660	1,594	418	419	0	0
New Jersey	539	520	3.7%	0	0	400	387	139	133	0	0
New York	773	721	7.2%	0	0	582	531	190	190	0	0
Pennsylvania	767	772	-0.7%	0	0	678	676	89	96	0	0
East North Central	69	81	-14.0%	14	14	0	0	56	66	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	9	7	21.0%	0	0	0	0	9	7	0	0
Michigan	47	59	-21.0%	0	0	0	0	47	59	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	14	14	-2.1%	14	14	0	0	0	0	0	0
West North Central	187	184	1.3%	95	109	92	75	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	187	184	1.3%	95	109	92	75	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,147	2,139	0.4%	0	0	1,974	1,960	172	179	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	1,478	1,420	4.1%	0	0	1,478	1,420	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	195	246	-21.0%	0	0	195	246	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	474	473	0.2%	0	0	302	294	172	179	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	5	4	15.0%	0	0	0	0	0	0	5	4
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	5	4	15.0%	0	0	0	0	0	0	5	4
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	263	272	-3.3%	0	0	263	272	0	0	0	0
California	163	163	-0.2%	0	0	163	163	0	0	0	0
Oregon	38	48	-20.0%	0	0	38	48	0	0	0	0
Washington	61	61	1.4%	0	0	61	61	0	0	0	0
Pacific Noncontiguous	177	187	-5.5%	0	0	0	0	177	187	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	177	187	-5.5%	0	0	0	0	177	187	0	0
U.S. Total	6,285	6,221	1.0%	109	123	5,296	5,179	875	915	5	4

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, May 2020 and May 2019 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	3,000	4,316	-30.0%	354	655	2,205	3,213	0	1	442	446
Connecticut	208	281	-26.0%	0	0	208	281	0	0	0	0
Maine	1,157	1,668	-31.0%	0	0	715	1,223	0	0	442	446
Massachusetts	NM	200	NM	0	0	NM	200	0	0	0	0
New Hampshire	1,095	1,768	-38.0%	128	476	967	1,292	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	393	398	-1.3%	226	180	NM	218	0	1	0	0
Middle Atlantic	731	747	-2.1%	0	0	501	504	0	0	230	244
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	551	550	0.2%	0	0	501	504	0	0	NM	46
Pennsylvania	180	197	-8.7%	0	0	0	0	0	0	180	197
East North Central	1,667	1,985	-16.0%	298	341	779	1,069	0	0	591	576
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,055	1,336	-21.0%	0	0	772	1,060	0	0	283	275
Ohio	93	82	13.0%	0	0	7	8	0	0	86	74
Wisconsin	520	568	-8.4%	298	341	0	0	0	0	222	227
West North Central	308	442	-30.0%	55	98	NM	118	16	4	120	222
Iowa	5	4	35.0%	0	0	0	0	5	4	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	292	439	-33.0%	55	98	NM	118	0	0	120	222
Missouri	11	0	--	0	0	0	0	11	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	10,186	10,982	-7.2%	1,408	2,586	3,574	2,938	13	13	5,191	5,444
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	1,397	1,796	-22.0%	496	838	NM	179	0	0	762	780
Georgia	4,228	3,110	36.0%	0	0	2,070	1,010	0	0	2,159	2,100
Maryland	13	60	-78.0%	0	0	0	0	13	13	0	47
North Carolina	1,076	1,500	-28.0%	0	0	505	937	0	0	571	564
South Carolina	1,349	1,435	-6.0%	0	149	609	476	0	0	740	810
Virginia	2,122	3,081	-31.0%	913	1,599	251	338	0	0	959	1,144
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,921	2,965	-1.5%	0	0	0	126	0	0	2,921	2,839
Alabama	1,950	1,968	-0.9%	0	0	0	126	0	0	1,950	1,842
Kentucky	131	128	2.0%	0	0	0	0	0	0	131	128
Mississippi	575	505	14.0%	0	0	0	0	0	0	575	505
Tennessee	266	364	-27.0%	0	0	0	0	0	0	266	364
West South Central	1,823	2,019	-9.7%	0	0	0	0	0	0	1,823	2,019
Arkansas	361	560	-36.0%	0	0	0	0	0	0	361	560
Louisiana	973	932	4.3%	0	0	0	0	0	0	973	932
Oklahoma	135	162	-17.0%	0	0	0	0	0	0	135	162
Texas	355	364	-2.5%	0	0	0	0	0	0	355	364
Mountain	510	589	-13.0%	0	0	344	417	0	0	165	172
Arizona	228	295	-23.0%	0	0	228	295	0	0	0	0
Colorado	88	90	-2.7%	0	0	88	90	0	0	0	0
Idaho	172	190	-9.6%	0	0	28	32	0	0	144	159
Montana	22	13	66.0%	0	0	0	0	0	0	22	13
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	5,196	5,779	-10.0%	356	465	2,958	3,562	0	0	1,882	1,752
California	3,612	4,061	-11.0%	0	0	2,760	3,295	0	0	852	766
Oregon	584	623	-6.3%	0	0	198	267	0	0	386	357
Washington	1,000	1,095	-8.7%	356	465	0	0	0	0	644	630
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	26,343	29,824	-12.0%	2,470	4,146	10,477	11,947	29	18	13,366	13,712

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 May 2020 and May 2019 (Billion Btus)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	15,489	20,445	-24.0%	1,630	3,209	11,585	15,003	4	4	2,269	2,229
Connecticut	1,082	1,311	-17.0%	0	0	1,082	1,311	0	0	0	0
Maine	6,040	8,102	-25.0%	0	0	3,770	5,873	0	0	2,269	2,229
Massachusetts	802	878	-8.7%	0	0	802	878	0	0	0	0
New Hampshire	5,435	7,809	-30.0%	388	1,846	5,048	5,963	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,131	2,346	-9.2%	1,243	1,362	884	979	4	4	0	0
Middle Atlantic	3,656	3,583	2.0%	0	0	2,345	2,229	0	0	1,311	1,354
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	2,695	2,599	3.7%	0	0	2,345	2,229	0	0	350	370
Pennsylvania	961	984	-2.3%	0	0	0	0	0	0	961	984
East North Central	8,423	9,831	-14.0%	1,464	1,779	4,043	5,039	0	0	2,916	3,012
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	5,359	6,495	-17.0%	0	0	4,010	4,983	0	0	1,348	1,512
Ohio	507	450	13.0%	0	0	33	56	0	0	474	394
Wisconsin	2,557	2,886	-11.0%	1,464	1,779	0	0	0	0	1,093	1,107
West North Central	2,141	2,334	-8.2%	341	435	592	583	97	163	1,112	1,152
Iowa	21	26	-19.0%	0	0	0	0	21	26	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	2,045	2,218	-7.8%	341	435	592	583	0	47	1,112	1,152
Missouri	76	90	-16.0%	0	0	0	0	76	90	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	50,691	50,581	0.2%	8,910	11,577	15,115	12,517	57	55	26,609	26,432
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	7,030	8,454	-17.0%	2,603	3,579	741	1,235	0	0	3,687	3,641
Georgia	17,856	14,092	27.0%	0	0	7,173	3,708	0	0	10,684	10,384
Maryland	57	312	-82.0%	0	0	0	0	57	55	0	257
North Carolina	6,186	6,194	-0.1%	0	0	3,380	3,554	0	0	2,806	2,640
South Carolina	6,887	7,186	-4.2%	494	805	2,517	2,452	0	0	3,875	3,929
Virginia	12,675	14,343	-12.0%	5,813	7,193	1,304	1,568	0	0	5,557	5,581
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	14,870	14,627	1.7%	0	0	0	624	0	0	14,870	14,004
Alabama	9,759	9,699	0.6%	0	0	0	624	0	0	9,759	9,075
Kentucky	678	620	9.4%	0	0	0	0	0	0	678	620
Mississippi	2,741	2,511	9.2%	0	0	0	0	0	0	2,741	2,511
Tennessee	1,693	1,798	-5.9%	0	0	0	0	0	0	1,693	1,798
West South Central	9,472	11,026	-14.0%	0	0	194	295	0	0	9,278	10,732
Arkansas	1,902	2,885	-34.0%	0	0	0	0	0	0	1,902	2,885
Louisiana	4,825	5,344	-9.7%	0	0	0	0	0	0	4,825	5,344
Oklahoma	759	688	10.0%	0	0	0	0	0	0	759	688
Texas	1,987	2,109	-5.8%	0	0	194	295	0	0	1,793	1,815
Mountain	2,682	2,708	-0.9%	0	0	1,870	1,944	0	0	812	763
Arizona	1,206	1,322	-8.7%	0	0	1,206	1,322	0	0	0	0
Colorado	540	505	6.9%	0	0	540	505	0	0	0	0
Idaho	831	788	5.5%	0	0	124	118	0	0	707	670
Montana	105	93	12.0%	0	0	0	0	0	0	105	93
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	26,370	27,611	-4.5%	1,871	2,108	15,638	16,959	0	0	8,861	8,544
California	18,214	19,279	-5.5%	0	0	14,609	15,718	0	0	3,605	3,561
Oregon	3,051	3,049	0.1%	0	0	1,029	1,241	0	0	2,023	1,808
Washington	5,105	5,283	-3.4%	1,871	2,108	0	0	0	0	3,234	3,175
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	133,796	142,747	-6.3%	14,216	19,109	51,382	55,194	158	223	68,039	68,222

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.

Chapter 3

Fossil-Fuel Stocks for Electricity Generation

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2010 - May 2020

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2010	174,917	34,841	1,019	143,744	23,934	850	31,173	10,908	168
2011	172,387	33,742	508	142,103	24,544	404	30,284	9,198	104
2012	185,116	30,862	495	150,942	22,513	414	34,174	8,349	81
2013	147,884	30,387	390	120,792	21,208	303	27,092	9,179	86
2014	151,548	32,322	827	116,684	21,304	686	34,864	11,018	142
2015	195,548	31,694	1,340	153,226	20,253	1,163	42,322	11,441	177
2016	162,009	30,593	845	130,885	19,767	603	31,124	10,827	241
2017	137,687	28,089	864	114,782	19,047	692	22,905	9,041	171
2018	102,793	25,977	539	84,728	16,553	521	18,065	9,423	19
2019	128,497	25,976	443	104,344	16,642	429	24,153	9,333	14
Year 2018, End of Month Stocks									
January	123,235	25,853	720	103,761	17,653	579	19,474	8,200	141
February	120,526	26,831	692	101,532	18,213	561	18,994	8,618	131
March	126,008	26,763	736	106,377	18,301	612	19,631	8,462	124
April	128,571	26,608	731	107,870	18,236	647	20,701	8,372	84
May	127,982	26,794	709	107,176	18,315	648	20,806	8,479	61
June	121,041	26,494	591	101,498	17,964	526	19,544	8,530	65
July	110,348	25,912	668	93,099	17,412	614	17,249	8,500	53
August	103,744	24,815	625	87,944	16,602	580	15,800	8,213	45
Sept	100,384	24,595	608	84,696	16,378	557	15,688	8,217	51
October	104,855	24,591	541	87,394	16,183	511	17,461	8,409	30
November	104,075	24,720	557	86,252	16,114	540	17,823	8,606	16
December	102,793	25,977	539	84,728	16,553	521	18,065	9,423	19
Year 2019, End of Month Stocks									
January	99,378	26,026	528	81,756	16,685	518	17,622	9,341	9
February	98,835	26,270	506	81,339	16,923	495	17,497	9,347	11
March	97,102	26,266	498	79,627	17,016	482	17,475	9,250	16
April	108,852	26,382	510	88,960	17,155	501	19,891	9,227	10
May	115,888	26,453	445	93,643	17,229	435	22,245	9,224	10
June	117,710	26,217	389	94,364	17,016	382	23,346	9,202	7
July	110,933	25,850	355	89,638	16,750	348	21,295	9,100	8
August	110,560	25,160	381	89,229	16,231	373	21,331	8,929	8
Sept	110,952	25,374	293	89,877	16,438	282	21,075	8,935	11
October	119,045	25,294	283	96,515	16,414	277	22,530	8,881	6
November	123,033	25,550	425	99,827	16,490	408	23,207	9,060	17
December	128,497	25,976	443	104,344	16,642	429	24,153	9,333	14
Year 2020, End of Month Stocks									
January	134,402	25,340	521	108,369	16,375	518	26,033	8,965	2
February	139,558	25,203	615	112,442	16,308	599	27,116	8,895	16
March	145,451	25,392	537	116,736	16,402	523	28,715	8,990	14
April	151,998	25,350	537	122,308	16,301	521	29,690	9,049	17
May	154,340	25,760	525	124,071	16,522	514	30,269	9,238	11

Notes: See Glossary for definitions. Values for 2018 and prior years are final. Values for 2019 and 2020 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, May 2020 and 2019

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	May 2020	May 2019	Percentage Change	May 2020	May 2019	Percentage Change	May 2020	May 2019	Percentage Change
New England	W	507	W	3,484	3,413	2.1%	0	0	--
Connecticut	W	W	W	1,235	1,202	2.7%	0	0	--
Maine	0	0	--	207	283	-27.0%	0	0	--
Massachusetts	0	W	W	1,432	1,331	7.6%	0	0	--
New Hampshire	W	W	W	383	360	6.5%	0	0	--
Rhode Island	0	0	--	204	196	4.0%	0	0	--
Vermont	0	0	--	24	41	-42.2%	0	0	--
Middle Atlantic	3,970	4,491	-11.6%	5,011	5,213	-3.9%	0	0	--
New Jersey	W	W	W	673	650	3.6%	0	0	--
New York	0	W	W	3,031	3,231	-6.2%	0	0	--
Pennsylvania	W	4,306	W	1,306	1,332	-1.9%	0	0	--
East North Central	34,610	22,900	51.1%	1,078	1,081	-0.3%	W	89	W
Illinois	7,133	5,548	28.6%	69	74	-7.7%	0	0	--
Indiana	11,414	6,848	66.7%	132	86	53.6%	0	W	W
Michigan	4,796	3,276	46.4%	259	283	-8.2%	W	W	W
Ohio	7,665	4,200	82.5%	448	443	1.2%	0	0	--
Wisconsin	3,602	3,029	18.9%	169	195	-13.1%	W	W	W
West North Central	27,796	20,052	38.6%	NM	825	NM	0	0	--
Iowa	7,461	3,311	125.3%	89	123	-27.2%	0	0	--
Kansas	3,549	3,508	1.2%	NM	116	NM	0	0	--
Minnesota	3,684	3,272	12.6%	73	93	-21.7%	0	0	--
Missouri	8,402	6,060	38.6%	324	334	-3.0%	0	0	--
Nebraska	2,981	2,391	24.7%	68	96	-29.3%	0	0	--
North Dakota	W	W	W	37	26	44.4%	0	0	--
South Dakota	W	W	W	42	37	13.1%	0	0	--
South Atlantic	26,728	22,387	19.4%	NM	11,002	NM	W	W	W
Delaware	W	W	W	652	575	13.4%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,179	3,462	-8.2%	NM	4,078	NM	W	W	W
Georgia	6,350	4,305	47.5%	NM	857	NM	0	0	--
Maryland	1,943	1,875	3.6%	714	681	4.8%	0	0	--
North Carolina	5,179	4,373	18.4%	NM	1,275	NM	0	0	--
South Carolina	2,909	2,417	20.4%	NM	759	NM	0	0	--
Virginia	W	1,118	W	NM	2,620	NM	0	0	--
West Virginia	5,870	W	W	149	155	-4.1%	0	W	W
East South Central	14,049	11,215	25.3%	NM	1,261	NM	0	0	--
Alabama	3,315	W	W	NM	210	NM	0	0	--
Kentucky	7,095	6,037	17.5%	224	234	-4.4%	0	0	--
Mississippi	W	W	W	NM	37	NM	0	0	--
Tennessee	W	2,630	W	636	779	-18.4%	0	0	--
West South Central	24,936	15,732	58.5%	NM	1,414	NM	W	W	W
Arkansas	4,690	3,141	49.3%	NM	174	NM	0	0	--
Louisiana	3,593	2,578	39.3%	NM	229	NM	W	W	W
Oklahoma	3,203	2,563	25.0%	NM	98	NM	0	0	--
Texas	13,450	7,450	80.6%	NM	914	NM	0	0	--
Mountain	19,813	17,021	16.4%	NM	362	NM	W	W	W
Arizona	3,959	3,617	9.4%	NM	148	NM	0	0	--
Colorado	3,989	4,063	-1.8%	NM	121	NM	0	0	--
Idaho	0	0	--	0	0	-44.8%	0	0	--
Montana	W	W	W	15	15	-1.4%	W	W	W
Nevada	W	W	W	3	4	-30.8%	0	0	--
New Mexico	W	W	W	NM	NM	NM	0	0	--
Utah	4,212	2,830	48.8%	NM	30	NM	0	0	--
Wyoming	5,462	3,952	38.2%	51	28	78.9%	0	0	--
Pacific Contiguous	W	W	W	NM	359	NM	0	0	--
California	0	0	--	NM	179	NM	0	0	--
Oregon	W	W	W	72	78	-7.7%	0	0	--
Washington	W	W	W	94	103	-8.0%	0	0	--
Pacific Noncontiguous	W	W	W	992	1,522	-34.8%	0	0	--
Alaska	0	0	--	51	133	-61.8%	0	0	--
Hawaii	W	W	W	941	1,389	-32.2%	0	0	--
U.S. Total	154,340	115,888	33.2%	NM	26,453	NM	525	445	18.1%

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.
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, May 2020 and 2019

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019
Coal (Thousand Tons)							
New England	W	507	W	W	W	W	W
Middle Atlantic	3,970	4,491	-11.6%	W	0	W	4,491
East North Central	34,610	22,900	51.1%	21,282	14,389	13,328	8,511
West North Central	27,796	20,052	38.6%	27,796	20,052	0	0
South Atlantic	26,728	22,387	19.4%	23,948	19,436	2,779	2,951
East South Central	14,049	11,215	25.3%	14,049	11,215	0	0
West South Central	24,936	15,732	58.5%	16,922	11,678	8,014	4,054
Mountain	19,813	17,021	16.4%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	0	W	W
U.S. Total	**154,340**	**115,888**	**33.2%**	**124,071**	**93,643**	**30,269**	**22,245**
Petroleum Liquids (Thousand Barrels)							
New England	3,484	3,413	2.1%	505	501	2,979	2,913
Middle Atlantic	5,011	5,213	-3.9%	2,017	2,055	2,994	3,158
East North Central	1,078	1,081	-0.3%	712	710	366	372
West North Central	NM	825	NM	NM	800	22	26
South Atlantic	NM	11,002	NM	NM	8,823	NM	2,178
East South Central	NM	1,261	NM	NM	1,170	92	91
West South Central	NM	1,414	NM	NM	1,072	NM	343
Mountain	NM	362	NM	NM	333	29	29
Pacific Contiguous	NM	359	NM	NM	275	NM	84
Pacific Noncontiguous	992	1,522	-34.8%	957	1,491	36	32
U.S. Total	**NM**	**26,453**	**NM**	**NM**	**17,229**	**NM**	**9,224**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	89	W	W	89	0	0
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	W	0	W
East South Central	0	0	--	0	0	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	**525**	**445**	**18.1%**	**514**	**435**	**11**	**10**

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, 2010 - May 2020
(Thousand Tons)

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
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	56,140	77,875	3,672	137,687
2018	41,507	58,247	3,039	102,793
2019	55,103	69,988	3,124	128,497
Year 2018, End of Month Stocks				
January	47,910	72,251	3,074	123,235
February	47,658	69,960	2,909	120,526
March	49,027	73,768	3,213	126,008
April	50,499	74,747	3,324	128,571
May	51,393	73,377	3,212	127,982
June	48,411	69,439	3,191	121,041
July	44,487	63,014	2,847	110,348
August	42,359	58,570	2,816	103,744
Sept	40,384	57,155	2,845	100,384
October	42,588	59,252	3,016	104,855
November	42,392	58,575	3,108	104,075
December	41,507	58,247	3,039	102,793
Year 2019, End of Month Stocks				
January	40,184	56,311	2,883	99,378
February	41,501	54,596	2,738	98,835
March	44,493	49,383	3,054	97,102
April	49,163	56,333	3,344	108,852
May	52,191	60,281	3,023	115,888
June	54,298	60,523	2,551	117,710
July	50,265	57,646	2,670	110,933
August	49,818	58,009	2,409	110,560
Sept	49,070	59,148	2,395	110,952
October	51,780	64,308	2,590	119,045
November	52,799	66,935	2,959	123,033
December	55,103	69,988	3,124	128,497
Year 2020, End of Month Stocks				
January	56,268	74,560	3,307	134,402
February	57,374	78,705	3,235	139,558
March	59,838	81,734	3,624	145,451
April	61,845	85,920	3,947	151,998
May	61,513	88,352	4,117	154,340

Notes: See Glossary for definitions.
Values for 2018 and prior years are final. Values for 2019 and 2020 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.

Chapter 4

Receipts and Cost of Fossil Fuels

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2010 - May 2020

	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												
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	12,261,029	642,364	2.06	39.27	1.28	94.7	96,977	16,127	11.86	71.35	0.49	68.0
2018	11,371,117	596,215	2.06	39.25	1.31	91.7	134,069	22,290	14.42	86.80	0.42	71.4
2019	10,668,588	555,022	2.02	38.86	1.32	100.7	86,383	14,319	13.58	81.95	0.49	63.0
Year 2018												
January	955,176	50,541	2.06	39.01	1.24	76.3	35,958	6,008	14.02	84.17	0.47	59.1
February	852,358	44,837	2.07	39.27	1.27	95.2	12,093	1,993	12.79	77.72	0.47	122.2
March	941,236	48,946	2.04	39.20	1.34	107.0	7,979	1,331	13.56	81.30	0.42	80.5
April	816,396	42,555	2.07	39.66	1.33	102.3	6,902	1,141	13.90	84.04	0.41	65.7
May	892,542	46,186	2.04	39.50	1.38	95.5	9,619	1,591	14.40	87.12	0.34	79.2
June	930,650	48,563	2.04	39.14	1.36	85.0	9,287	1,546	14.96	89.81	0.33	75.2
July	989,524	52,065	2.05	38.98	1.29	80.2	7,532	1,244	14.74	89.24	0.33	65.2
August	1,076,062	56,499	2.06	39.16	1.31	87.2	7,016	1,163	15.41	92.94	0.38	57.8
Sept	943,820	49,892	2.05	38.76	1.25	90.8	7,903	1,316	15.42	92.57	0.38	66.0
October	1,000,010	52,357	2.04	39.05	1.36	106.0	9,389	1,556	15.77	95.13	0.42	77.7
November	954,234	50,315	2.06	39.02	1.32	95.2	8,917	1,494	15.87	94.65	0.46	73.7
December	1,019,110	53,461	2.11	40.25	1.30	94.0	11,474	1,908	13.96	83.90	0.47	94.1
Year 2019												
January	1,002,966	52,325	2.10	40.31	1.32	91.6	8,613	1,426	12.40	74.90	0.46	51.0
February	847,217	44,418	2.07	39.54	1.28	96.2	8,708	1,430	13.16	80.17	0.48	89.5
March	820,727	41,993	2.08	40.68	1.51	93.0	7,501	1,243	14.41	86.95	0.47	76.7
April	869,217	44,771	2.07	40.19	1.37	129.9	6,948	1,152	14.85	89.57	0.52	74.0
May	890,175	45,861	2.06	39.91	1.39	111.7	6,587	1,095	14.47	87.01	0.50	57.1
June	867,346	44,942	2.03	39.18	1.35	99.2	6,735	1,120	13.68	82.28	0.49	59.8
July	938,466	49,099	2.02	38.68	1.28	86.1	5,853	977	13.78	82.54	0.48	50.4
August	979,476	51,055	2.00	38.44	1.27	95.4	5,115	860	14.24	84.72	0.51	42.1
Sept	889,676	46,432	1.96	37.59	1.27	96.0	8,156	1,344	12.62	76.57	0.48	73.9
October	868,407	45,266	1.96	37.64	1.28	117.6	6,655	1,103	13.69	82.56	0.50	60.1
November	845,303	44,419	1.97	37.43	1.26	103.4	7,794	1,281	12.97	78.88	0.49	68.6
December	849,611	44,441	1.92	36.66	1.25	107.1	7,721	1,288	13.56	81.34	0.49	69.8
Year 2020												
January	815,873	43,036	1.94	36.84	1.25	114.0	5,340	895	13.87	82.79	0.53	48.4
February	692,242	36,724	1.91	35.98	1.27	111.4	6,581	1,090	13.06	78.84	0.49	71.6
March	659,206	34,712	1.94	36.78	1.33	116.3	6,734	1,115	10.48	63.27	0.51	77.0
April	562,898	30,023	1.93	36.18	1.25	122.9	4,196	709	8.50	50.35	0.52	56.4
May	536,562	28,899	1.90	35.23	1.15	104.6	6,466	1,090	6.57	38.96	0.50	78.4
Year to Date												
2018	4,457,707	233,065	2.06	39.32	1.31	93.6	72,551	12,063	13.80	83.15	0.44	70.1
2019	4,430,303	229,368	2.08	40.13	1.37	102.4	38,356	6,346	13.77	83.21	0.48	66.9
2020	3,266,781	173,395	1.92	36.26	1.25	113.6	29,317	4,899	10.54	63.07	0.51	65.6
Rolling 12 Months Ending in May												
2019	11,343,713	592,519	2.07	39.56	1.34	94.8	99,873	16,573	14.59	87.93	0.43	70.5
2020	9,505,067	499,049	1.96	37.37	1.27	104.0	77,344	12,871	12.34	74.13	0.50	62.2

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 2018 and prior years are final. Values for 2019 and 2020 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), 2010 - May 2020 (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												
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	2.13	59.90	5.56	74.1	9,951,815	9,628,733	3.37	3.49	90.2	2.65
2018	85,122	3,010	2.54	71.76	5.74	66.1	11,244,158	10,885,764	3.55	3.67	90.4	2.83
2019	56,294	1,969	1.91	54.59	5.51	53.6	11,149,544	10,786,472	2.89	2.99	84.3	2.49
Year 2018												
January	7,009	248	2.38	67.41	5.31	53.2	836,690	809,817	5.06	5.23	88.7	3.59
February	7,769	277	2.43	68.09	5.49	72.4	734,114	711,064	3.61	3.73	88.7	2.82
March	7,841	281	2.54	70.89	5.54	86.2	805,795	779,565	3.18	3.29	89.3	2.59
April	6,564	232	2.56	72.38	6.09	65.5	758,992	735,470	3.14	3.24	90.2	2.61
May	4,344	152	2.41	68.58	6.09	54.2	894,444	866,280	3.06	3.16	89.9	2.59
June	7,382	260	2.73	77.61	5.97	62.9	1,014,537	982,204	3.13	3.23	91.7	2.64
July	8,307	293	2.71	76.81	5.73	65.3	1,272,002	1,231,687	3.23	3.34	91.1	2.73
August	8,443	298	2.79	78.94	5.67	69.4	1,243,191	1,203,931	3.28	3.38	91.6	2.72
Sept	8,158	288	2.94	83.35	5.63	72.2	1,093,336	1,057,918	3.12	3.22	91.9	2.65
October	5,892	208	2.48	70.32	5.77	68.1	951,711	921,416	3.43	3.55	91.4	2.76
November	6,696	235	2.21	63.10	5.87	68.6	817,552	791,716	4.18	4.31	89.3	3.05
December	6,718	238	2.03	57.24	5.90	59.0	821,793	794,697	4.72	4.89	89.4	3.29
Year 2019												
January	5,447	192	2.08	59.13	5.93	47.6	861,144	833,540	4.01	4.14	85.6	2.99
February	4,486	155	2.27	65.75	5.78	44.6	786,847	759,097	3.64	3.77	84.9	2.85
March	3,725	130	2.43	69.63	6.15	37.9	805,916	780,542	3.45	3.56	84.8	2.79
April	3,159	111	2.71	76.93	5.65	43.2	735,837	713,039	2.89	2.99	83.7	2.49
May	4,631	162	2.24	63.78	5.41	43.2	841,017	815,717	2.77	2.85	85.8	2.43
June	3,740	130	2.18	62.61	5.15	44.7	972,337	942,226	2.59	2.67	84.7	2.36
July	5,766	201	2.01	57.67	5.22	51.0	1,201,858	1,162,227	2.53	2.62	83.1	2.33
August	7,308	258	1.72	48.66	5.20	74.0	1,219,083	1,177,729	2.41	2.50	83.3	2.25
Sept	3,777	131	1.67	48.38	5.58	37.3	1,053,061	1,018,596	2.59	2.68	83.8	2.33
October	2,365	83	1.57	44.65	5.64	58.9	930,821	900,234	2.49	2.58	83.3	2.27
November	6,654	232	1.46	41.78	5.38	128.0	828,647	801,068	2.96	3.06	84.6	2.48
December	5,236	183	1.14	32.50	5.44	77.3	912,977	882,456	2.92	3.02	85.6	2.46
Year 2020												
January	8,421	295	1.53	43.68	5.34	81.3	935,177	903,553	2.62	2.72	84.8	2.33
February	6,913	244	1.47	41.75	4.99	109.8	887,032	857,646	2.40	2.48	85.2	2.22
March	4,942	174	1.36	38.61	5.46	55.4	875,795	846,496	2.14	2.22	84.2	2.09
April	5,150	180	1.38	39.50	5.35	68.3	773,646	746,039	2.10	2.18	84.8	2.04
May	5,495	195	1.61	45.35	5.30	62.5	835,885	810,417	2.17	2.24	85.3	2.08
Year to Date												
2018	33,527	1,190	2.47	69.51	5.66	65.8	4,030,035	3,902,196	3.62	3.73	89.4	2.85
2019	21,449	750	2.31	65.96	5.78	43.5	4,030,761	3,901,935	3.36	3.47	85.0	2.71
2020	30,921	1,087	1.48	42.04	5.27	73.8	4,307,534	4,164,152	2.30	2.38	84.9	2.16
Rolling 12 Months Ending in May												
2019	73,044	2,570	2.50	71.11	5.78	57.5	11,244,884	10,885,503	3.46	3.57	88.8	2.78
2020	65,767	2,306	1.58	44.97	5.31	67.5	11,426,317	11,048,689	2.50	2.59	84.3	2.28

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010 - May 2020

	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												
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	9,011,629	467,595	2.12	40.81	1.16	96.0	70,422	11,640	11.60	70.19	0.47	74.4
2018	8,351,036	435,964	2.11	40.35	1.18	91.6	84,050	13,896	14.39	87.09	0.37	75.3
2019	7,919,245	410,810	2.08	40.13	1.18	102.5	65,388	10,768	13.37	81.21	0.46	71.8
Year 2018												
January	689,121	36,230	2.08	39.57	1.11	75.5	16,449	2,762	14.38	85.73	0.43	61.0
February	637,294	33,294	2.10	40.18	1.17	97.3	8,657	1,413	12.58	77.10	0.46	126.0
March	696,264	36,224	2.09	40.20	1.18	111.4	5,472	906	13.38	80.86	0.36	82.4
April	600,033	31,096	2.12	40.93	1.23	101.8	5,321	875	13.78	83.81	0.36	74.7
May	654,477	33,757	2.09	40.57	1.24	95.3	6,739	1,108	14.37	87.44	0.29	82.5
June	689,040	35,857	2.10	40.33	1.21	84.0	6,566	1,085	14.63	88.49	0.28	78.5
July	738,864	38,675	2.10	40.13	1.15	79.8	5,620	920	14.34	87.60	0.27	75.5
August	802,045	41,889	2.11	40.43	1.19	87.2	5,016	826	15.26	92.68	0.34	63.6
Sept	695,648	36,530	2.12	40.31	1.15	90.3	5,665	940	15.53	93.63	0.35	66.8
October	713,410	37,228	2.10	40.20	1.21	104.3	6,170	1,011	15.78	96.34	0.39	73.6
November	691,145	36,346	2.10	39.90	1.17	95.3	5,383	896	15.89	95.50	0.41	69.8
December	743,694	38,838	2.17	41.48	1.17	93.2	6,991	1,155	13.83	83.69	0.44	94.7
Year 2019												
January	735,203	38,213	2.16	41.64	1.18	92.1	6,100	1,008	12.56	76.05	0.42	61.8
February	628,506	32,866	2.14	40.93	1.15	97.9	6,630	1,082	13.01	79.70	0.46	106.0
March	585,096	29,813	2.14	42.07	1.37	93.5	6,135	1,012	14.34	86.90	0.42	94.1
April	643,745	33,151	2.13	41.45	1.21	134.6	5,352	882	14.71	89.24	0.47	89.0
May	661,447	34,035	2.12	41.24	1.22	112.1	4,914	810	14.11	85.55	0.48	65.7
June	645,744	33,285	2.11	40.91	1.20	98.9	5,128	848	13.29	80.35	0.47	63.9
July	718,111	37,394	2.09	40.05	1.16	88.2	4,389	728	13.28	79.99	0.46	56.4
August	741,452	38,602	2.07	39.71	1.14	96.9	3,843	643	13.64	81.54	0.48	44.2
Sept	671,570	34,833	2.02	38.89	1.17	98.1	6,701	1,097	12.38	75.64	0.45	86.7
October	638,658	33,211	2.01	38.71	1.14	122.3	4,848	796	13.25	80.69	0.47	62.8
November	619,671	32,460	2.02	38.53	1.14	106.5	6,088	992	12.79	78.49	0.48	84.0
December	630,043	32,948	1.96	37.44	1.13	110.4	5,261	868	13.61	82.47	0.47	69.4
Year 2020												
January	601,630	31,626	1.98	37.67	1.12	115.6	4,454	744	13.67	81.86	0.48	53.5
February	511,753	27,042	1.95	36.81	1.12	113.9	5,670	937	12.88	77.92	0.46	83.7
March	490,792	25,781	1.97	37.47	1.14	118.6	5,191	855	10.36	62.92	0.47	90.0
April	430,845	22,438	1.98	37.97	1.18	131.8	2,574	432	8.46	50.40	0.47	49.2
May	400,318	21,157	1.93	36.48	1.08	106.4	4,012	671	6.76	40.39	0.48	69.7
Year to Date												
2018	3,277,189	170,601	2.10	40.27	1.18	94.4	42,639	7,064	13.81	83.39	0.39	76.3
2019	3,253,997	168,078	2.14	41.46	1.22	103.8	29,131	4,795	13.69	83.20	0.45	80.6
2020	2,435,337	128,044	1.96	37.30	1.13	116.7	21,901	3,639	10.80	65.01	0.47	68.7
Rolling 12 Months Ending in May												
2019	8,327,843	433,440	2.12	40.81	1.20	94.8	70,542	11,628	14.45	87.70	0.39	76.8
2020	7,100,585	370,776	2.01	38.55	1.15	106.3	58,159	9,611	12.24	74.08	0.47	67.0

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010 - May 2020 (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												
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	4,794,383	4,640,827	3.62	3.74	96.8	2.68
2018	83,211	2,940	2.56	72.34	5.74	106.8	5,553,558	5,379,459	3.68	3.80	96.2	2.80
2019	54,266	1,896	1.92	54.88	5.50	91.0	5,436,200	5,262,798	3.06	3.16	87.6	2.53
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	423,606	410,310	5.20	5.37	95.5	3.41
February	7,769	277	2.43	68.09	5.49	117.9	359,760	348,729	3.81	3.93	95.0	2.79
March	7,841	281	2.54	70.89	5.54	141.5	397,572	384,900	3.46	3.57	96.4	2.64
April	6,564	232	2.56	72.38	6.09	119.0	377,302	365,948	3.30	3.40	97.5	2.63
May	4,344	152	2.41	68.58	6.09	108.3	452,870	438,567	3.24	3.35	94.8	2.63
June	7,382	260	2.73	77.61	5.97	96.2	525,751	509,192	3.28	3.39	97.2	2.67
July	8,147	287	2.73	77.48	5.73	100.4	632,132	612,044	3.27	3.38	95.1	2.69
August	8,183	288	2.82	80.03	5.67	105.4	607,246	588,293	3.33	3.44	96.5	2.68
Sept	7,493	263	3.05	86.74	5.59	101.2	535,618	518,216	3.28	3.39	97.0	2.68
October	5,415	191	2.55	72.24	5.80	120.4	464,777	450,302	3.57	3.68	97.8	2.74
November	6,524	229	2.23	63.55	5.88	116.4	390,167	378,446	4.26	4.39	94.9	2.93
December	6,541	232	2.04	57.52	5.91	96.0	386,756	374,513	4.92	5.08	96.2	3.16
Year 2019												
January	5,447	192	2.08	59.13	5.93	73.8	406,718	394,288	4.19	4.32	90.4	2.93
February	4,486	155	2.27	65.75	5.78	69.4	379,192	364,901	3.79	3.94	89.0	2.82
March	3,725	130	2.43	69.63	6.15	66.9	386,643	374,986	3.66	3.77	89.5	2.81
April	3,159	111	2.71	76.93	5.65	101.5	359,063	348,044	3.09	3.18	87.9	2.54
May	4,631	162	2.24	63.78	5.41	73.8	422,966	410,771	2.94	3.03	90.7	2.49
June	3,740	130	2.18	62.61	5.15	85.7	491,914	476,866	2.76	2.84	88.1	2.44
July	5,723	199	2.01	57.76	5.22	86.8	592,859	573,479	2.65	2.74	84.6	2.38
August	6,693	235	1.72	48.82	5.15	115.7	604,271	584,200	2.55	2.64	84.4	2.31
Sept	3,034	105	1.68	48.71	5.58	56.6	519,620	503,066	2.77	2.86	85.9	2.40
October	1,738	60	1.51	43.76	5.45	92.3	456,258	441,488	2.71	2.80	86.1	2.35
November	6,654	232	1.46	41.78	5.38	227.7	392,163	379,687	3.16	3.26	89.3	2.51
December	5,236	183	1.14	32.50	5.44	132.2	424,532	411,022	3.16	3.27	90.2	2.49
Year 2020												
January	8,421	295	1.53	43.68	5.34	144.1	445,637	431,393	2.87	2.97	88.3	2.40
February	6,913	244	1.47	41.75	4.99	164.5	436,651	422,625	2.66	2.74	89.0	2.33
March	4,942	174	1.36	38.61	5.46	82.4	439,598	425,006	2.36	2.44	88.7	2.19
April	5,150	180	1.38	39.50	5.35	98.8	388,483	374,198	2.34	2.43	89.1	2.17
May	5,495	195	1.61	45.35	5.30	104.2	425,641	412,855	2.43	2.51	89.5	2.21
Year to Date												
2018	33,527	1,190	2.47	69.51	5.66	111.6	2,011,110	1,948,454	3.81	3.93	95.8	2.83
2019	21,449	750	2.31	65.96	5.78	74.5	1,954,583	1,892,990	3.53	3.65	89.5	2.72
2020	30,921	1,087	1.48	42.04	5.27	116.6	2,136,009	2,066,076	2.54	2.62	88.9	2.27
Rolling 12 Months Ending in May												
2019	71,133	2,500	2.52	71.78	5.79	92.8	5,497,031	5,323,995	3.58	3.70	93.8	2.76
2020	63,739	2,233	1.57	44.91	5.29	111.1	5,617,627	5,435,883	2.70	2.79	87.5	2.36

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010 - May 2020

	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												
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	3,056,215	165,567	1.85	34.19	1.64	93.1	24,704	4,190	12.67	74.73	0.46	73.8
2018	2,849,062	152,015	1.89	35.41	1.70	94.2	47,699	8,022	14.52	86.39	0.44	81.7
2019	2,601,613	137,047	1.81	34.33	1.74	98.9	19,311	3,276	14.33	84.50	0.50	64.8
Year 2018												
January	250,209	13,549	1.99	36.82	1.60	79.9	19,101	3,180	13.71	82.73	0.46	63.7
February	200,760	10,859	1.93	35.69	1.58	93.0	3,249	550	13.53	79.99	0.43	195.1
March	229,355	11,974	1.84	35.33	1.83	99.4	2,273	388	14.17	82.79	0.43	107.3
April	202,887	10,815	1.88	35.20	1.61	107.5	1,427	242	14.45	84.93	0.44	61.3
May	223,521	11,725	1.87	35.68	1.78	98.4	2,731	459	14.46	86.28	0.46	95.4
June	227,121	12,009	1.84	34.83	1.84	89.2	2,614	444	15.89	93.43	0.40	92.9
July	235,760	12,666	1.87	34.83	1.73	82.1	1,775	301	16.08	94.43	0.45	64.8
August	260,087	13,942	1.86	34.73	1.68	88.4	1,864	315	15.92	93.84	0.42	59.8
Sept	235,579	12,761	1.82	33.63	1.56	94.5	2,082	351	15.17	89.90	0.39	82.5
October	274,139	14,529	1.89	35.60	1.72	113.8	3,039	517	15.83	92.93	0.41	127.4
November	248,768	13,265	1.92	35.95	1.73	97.0	3,328	566	15.95	93.64	0.42	119.9
December	260,878	13,920	1.94	36.42	1.68	99.1	4,215	709	14.20	84.15	0.46	132.8
Year 2019												
January	255,058	13,482	1.90	36.07	1.76	93.2	2,359	393	11.93	71.58	0.50	49.8
February	205,832	10,934	1.83	34.49	1.67	94.5	1,879	314	13.63	81.50	0.46	86.2
March	222,160	11,549	1.88	36.18	1.88	94.0	1,239	210	14.88	87.69	0.54	61.1
April	212,491	10,991	1.84	35.58	1.89	123.7	1,373	233	15.69	92.33	0.51	63.5
May	216,008	11,203	1.83	35.24	1.92	114.9	1,581	270	15.62	91.40	0.49	69.6
June	209,895	11,090	1.76	33.36	1.83	103.5	1,476	250	15.09	89.05	0.48	67.8
July	208,969	11,154	1.79	33.51	1.69	81.4	1,384	236	15.49	90.86	0.48	48.3
August	227,149	11,923	1.78	33.87	1.68	93.5	1,160	199	16.40	95.66	0.49	50.1
Sept	206,975	11,060	1.75	32.81	1.58	92.7	1,301	222	13.76	80.79	0.57	62.1
October	217,837	11,469	1.78	33.77	1.69	110.9	1,671	285	15.02	88.05	0.52	71.7
November	212,346	11,312	1.78	33.36	1.61	98.6	1,569	267	13.59	79.96	0.50	68.7
December	206,894	10,881	1.75	33.26	1.66	102.2	2,319	396	13.47	78.85	0.50	97.8
Year 2020												
January	201,589	10,795	1.80	33.57	1.64	115.4	725	124	15.12	88.14	0.56	44.3
February	169,190	9,124	1.76	32.72	1.74	110.7	722	123	14.71	86.54	0.57	50.3
March	155,393	8,311	1.78	33.26	1.92	115.8	1,351	229	10.89	64.15	0.52	65.9
April	122,399	7,115	1.71	29.49	1.46	108.1	1,507	258	8.39	49.06	0.53	102.9
May	126,481	7,262	1.76	30.61	1.37	104.3	2,325	398	6.16	36.02	0.50	152.5
Year to Date												
2018	1,106,731	58,923	1.90	35.79	1.68	94.0	28,781	4,818	13.84	82.92	0.45	74.0
2019	1,111,549	58,159	1.86	35.55	1.82	102.1	8,431	1,421	14.05	83.35	0.50	63.1
2020	775,052	42,607	1.77	32.14	1.64	111.2	6,629	1,132	9.56	55.99	0.53	81.8
Rolling 12 Months Ending in May												
2019	2,853,880	151,251	1.87	35.31	1.75	97.2	27,349	4,625	15.02	88.70	0.45	83.1
2020	2,265,115	121,496	1.77	32.98	1.66	101.3	17,509	2,987	12.65	74.19	0.51	71.3

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010 - May 2020 (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												
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	3.52
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	2.57
2016	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	2.29
2017	0	0	--	--	--	0.0	4,346,156	4,201,573	3.08	3.19	94.0	2.54
2018	0	0	--	--	--	0.0	4,889,212	4,727,692	3.40	3.52	94.6	2.84
2019	0	0	--	--	--	0.0	4,907,917	4,742,079	2.68	2.77	89.4	2.37
Year 2018												
January	0	0	--	--	--	0.0	343,077	331,644	5.21	5.39	93.1	3.99
February	0	0	--	--	--	0.0	312,835	302,657	3.38	3.49	93.7	2.80
March	0	0	--	--	--	0.0	346,290	334,497	2.87	2.97	93.6	2.46
April	0	0	--	--	--	0.0	319,774	309,352	2.96	3.06	94.1	2.51
May	0	0	--	--	--	0.0	377,388	365,397	2.79	2.89	94.8	2.46
June	0	0	--	--	--	0.0	422,237	408,330	2.89	2.98	95.3	2.53
July	0	0	--	--	--	0.0	570,783	552,360	3.21	3.32	95.3	2.79
August	0	0	--	--	--	0.0	565,773	547,533	3.22	3.33	95.1	2.76
Sept	0	0	--	--	--	0.0	489,149	472,958	2.90	3.00	95.4	2.54
October	0	0	--	--	--	0.0	419,722	405,657	3.20	3.31	94.9	2.68
November	0	0	--	--	--	0.0	355,192	343,013	4.12	4.27	94.1	3.19
December	0	0	--	--	--	0.0	366,993	354,294	4.49	4.65	95.0	3.39
Year 2019												
January	0	0	--	--	--	0.0	381,402	368,347	3.83	3.97	91.1	3.01
February	0	0	--	--	--	0.0	342,971	331,583	3.47	3.60	90.6	2.83
March	0	0	--	--	--	0.0	352,850	341,038	3.25	3.37	90.0	2.70
April	0	0	--	--	--	0.0	312,158	302,172	2.63	2.72	88.9	2.31
May	0	0	--	--	--	0.0	351,935	340,689	2.51	2.60	90.1	2.26
June	0	0	--	--	--	0.0	416,432	403,183	2.33	2.41	89.2	2.15
July	0	0	--	--	--	0.0	540,331	522,062	2.37	2.46	87.7	2.21
August	0	0	--	--	--	0.0	545,846	526,699	2.23	2.31	88.4	2.10
Sept	0	0	--	--	--	0.0	468,552	452,716	2.36	2.44	89.0	2.17
October	0	0	--	--	--	0.0	410,406	396,499	2.20	2.28	88.7	2.07
November	0	0	--	--	--	0.0	368,029	354,954	2.74	2.85	90.0	2.38
December	0	0	--	--	--	0.0	417,005	402,138	2.68	2.78	91.2	2.38
Year 2020												
January	0	0	--	--	--	0.0	417,189	402,001	2.36	2.45	91.1	2.17
February	0	0	--	--	--	0.0	384,463	371,044	2.09	2.17	91.0	2.00
March	0	0	--	--	--	0.0	369,642	356,790	1.87	1.93	88.9	1.86
April	0	0	--	--	--	0.0	322,578	311,096	1.79	1.86	90.4	1.79
May	0	0	--	--	--	0.0	345,359	334,474	1.80	1.87	90.1	1.81
Year to Date												
2018	0	0	--	--	--	0.0	1,699,363	1,643,547	3.44	3.56	93.9	2.87
2019	0	0	--	--	--	0.0	1,741,315	1,683,829	3.17	3.28	90.2	2.64
2020	0	0	--	--	--	0.0	1,839,230	1,775,405	2.00	2.08	90.3	1.94
Rolling 12 Months Ending in May												
2019	0	0	--	--	--	0.0	4,931,164	4,767,974	3.30	3.41	93.2	2.75
2020	0	0	--	--	--	0.0	5,005,832	4,833,655	2.25	2.34	89.5	2.11

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010 - May 2020

	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												
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	3.12	70.30	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	2.85	63.90	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	2.69	60.89	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	2.78	63.31	2.99	3.9	0	0	--	--	--	0.0
2018	290	13	2.94	66.52	3.04	2.2	0	0	--	--	--	0.0
2019	193	8	2.92	66.55	3.01	1.6	0	0	--	--	--	0.0
Year 2018												
January	95	4	2.92	66.58	3.11	5.5	0	0	--	--	--	0.0
February	31	1	2.92	66.05	3.19	2.3	0	0	--	--	--	0.0
March	5	0	2.92	66.20	3.16	0.4	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	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	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	52	2	2.94	66.53	2.87	5.5	0	0	--	--	--	0.0
November	62	3	2.94	66.44	2.99	5.8	0	0	--	--	--	0.0
December	46	2	2.97	66.83	3.05	4.4	0	0	--	--	--	0.0
Year 2019												
January	27	1	2.90	65.89	3.00	2.1	0	0	--	--	--	0.0
February	37	2	2.90	65.51	2.95	3.2	0	0	--	--	--	0.0
March	48	2	2.90	65.86	2.94	3.9	0	0	--	--	--	0.0
April	2	0	2.90	65.28	2.90	0.3	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	2	0	2.90	66.38	3.02	0.4	0	0	--	--	--	0.0
July	1	0	2.97	67.69	2.94	0.1	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	23	1	2.96	67.99	3.17	2.7	0	0	--	--	--	0.0
November	31	1	2.96	67.99	3.17	3.0	0	0	--	--	--	0.0
December	21	1	2.96	67.34	2.91	2.0	0	0	--	--	--	0.0
Year 2020												
January	26	1	2.96	67.40	2.94	2.8	0	0	--	--	--	0.0
February	58	3	2.96	67.58	2.96	5.2	0	0	--	--	--	0.0
March	0	0	--	--	--	0.0	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2018	130	6	2.92	66.44	3.13	2.1	0	0	--	--	--	0.0
2019	115	5	2.90	65.74	2.96	2.1	0	0	--	--	--	0.0
2020	84	4	2.96	67.52	2.95	1.9	0	0	--	--	--	0.0
Rolling 12 Months Ending in May												
2019	275	12	2.93	66.23	2.96	2.2	0	0	--	--	--	0.0
2020	162	7	2.96	67.64	3.02	1.5	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 2018 and prior years are final. Values for 2019 and 2020 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: Commerical Sector, 2010 - May 2020 (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												
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	5.42	5.47	4.9	4.47
2015	0	0	--	--	--	0.0	6,499	6,371	4.11	4.19	5.5	3.76
2016	0	0	--	--	--	0.0	8,005	7,766	3.85	3.97	6.1	3.69
2017	0	0	--	--	--	0.0	7,841	7,593	3.82	3.95	4.9	3.75
2018	0	0	--	--	--	0.0	9,090	8,823	3.49	3.59	6.6	3.47
2019	0	0	--	--	--	0.0	9,429	9,087	3.26	3.39	6.8	3.26
Year 2018												
January	0	0	--	--	--	0.0	844	818	3.63	3.74	7.1	3.56
February	0	0	--	--	--	0.0	709	688	3.72	3.84	6.5	3.69
March	0	0	--	--	--	0.0	768	746	3.59	3.69	6.8	3.58
April	0	0	--	--	--	0.0	732	713	3.49	3.58	7.3	3.49
May	0	0	--	--	--	0.0	776	758	3.47	3.55	7.4	3.47
June	0	0	--	--	--	0.0	670	650	3.57	3.67	5.8	3.57
July	0	0	--	--	--	0.0	790	760	3.39	3.52	5.8	3.39
August	0	0	--	--	--	0.0	786	764	3.42	3.52	5.8	3.42
Sept	0	0	--	--	--	0.0	744	723	3.38	3.48	6.3	3.38
October	0	0	--	--	--	0.0	792	770	3.36	3.45	7.2	3.33
November	0	0	--	--	--	0.0	723	701	3.41	3.52	6.6	3.37
December	0	0	--	--	--	0.0	756	732	3.41	3.52	6.6	3.39
Year 2019												
January	0	0	--	--	--	0.0	778	751	3.40	3.52	6.2	3.38
February	0	0	--	--	--	0.0	772	745	3.37	3.50	6.8	3.35
March	0	0	--	--	--	0.0	839	812	3.36	3.47	7.2	3.33
April	0	0	--	--	--	0.0	775	748	3.30	3.41	7.3	3.29
May	0	0	--	--	--	0.0	811	782	3.26	3.38	7.7	3.26
June	0	0	--	--	--	0.0	807	776	3.23	3.36	7.3	3.22
July	0	0	--	--	--	0.0	721	701	3.17	3.26	5.9	3.17
August	0	0	--	--	--	0.0	838	808	3.13	3.25	6.8	3.13
Sept	0	0	--	--	--	0.0	747	717	3.15	3.28	6.5	3.15
October	0	0	--	--	--	0.0	766	734	3.24	3.38	6.8	3.23
November	0	0	--	--	--	0.0	743	713	3.30	3.43	6.3	3.28
December	0	0	--	--	--	0.0	832	801	3.26	3.39	6.7	3.25
Year 2020												
January	0	0	--	--	--	0.0	795	763	3.09	3.22	6.3	3.09
February	0	0	--	--	--	0.0	693	663	3.12	3.26	6.0	3.11
March	0	0	--	--	--	0.0	751	722	3.10	3.22	6.7	3.10
April	0	0	--	--	--	0.0	661	638	3.09	3.20	6.7	3.09
May	0	0	--	--	--	0.0	657	631	3.09	3.22	6.5	3.09
Year to Date												
2018	0	0	--	--	--	0.0	3,829	3,723	3.58	3.68	7.0	3.56
2019	0	0	--	--	--	0.0	3,974	3,837	3.34	3.45	7.0	3.32
2020	0	0	--	--	--	0.0	3,555	3,417	3.10	3.22	6.4	3.09
Rolling 12 Months Ending in May												
2019	0	0	--	--	--	0.0	9,235	8,937	3.38	3.49	6.6	3.37
2020	0	0	--	--	--	0.0	9,010	8,666	3.17	3.29	6.5	3.16

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010 - May 2020

	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												
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	2.97	64.15	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	2.72	59.17	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	2.67	57.01	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	192,637	9,178	2.49	52.29	1.35	70.7	1,850	297	11.18	69.57	1.42	15.2
2018	170,730	8,224	2.47	51.38	1.30	67.2	2,319	372	13.46	83.97	1.35	15.9
2019	147,537	7,156	2.55	52.62	1.18	63.6	1,684	275	13.19	80.82	1.47	13.6
Year 2018												
January	15,751	758	2.46	51.13	1.18	61.0	408	65	12.64	79.32	1.32	13.7
February	14,274	683	2.48	51.82	1.32	60.9	187	30	11.38	71.32	1.20	15.9
March	15,612	747	2.51	52.40	1.31	67.4	234	38	12.59	78.52	1.32	23.5
April	13,476	643	2.52	52.79	1.35	67.0	153	24	13.24	83.77	1.23	17.6
May	14,544	704	2.51	51.92	1.24	71.9	149	24	14.33	87.27	1.47	16.1
June	14,489	697	2.49	51.65	1.28	71.9	107	17	13.54	84.39	1.48	10.5
July	14,900	724	2.41	49.69	1.32	75.3	138	22	14.64	89.87	1.42	13.2
August	13,930	668	2.48	51.76	1.31	70.4	135	22	14.45	89.97	1.39	15.5
Sept	12,593	600	2.53	53.10	1.35	63.7	155	25	14.38	89.73	1.12	19.7
October	12,410	598	2.47	51.18	1.38	67.1	180	29	14.50	91.01	1.37	14.9
November	14,259	701	2.50	50.92	1.15	69.1	206	33	14.01	87.74	1.58	15.0
December	14,492	701	2.35	48.52	1.47	64.1	268	43	13.75	85.58	1.46	19.7
Year 2019												
January	12,678	629	2.49	50.14	1.13	57.4	154	25	12.98	80.23	1.24	8.0
February	12,842	617	2.61	54.43	1.16	61.6	199	33	13.77	82.99	1.45	19.3
March	13,424	629	2.68	57.20	1.49	66.7	126	21	13.43	82.27	1.63	13.2
April	12,978	629	2.63	54.29	1.15	68.6	223	36	12.89	79.74	1.54	21.8
May	12,720	623	2.51	51.21	0.97	68.3	92	15	14.12	86.68	1.48	9.4
June	11,705	567	2.49	51.38	1.22	64.3	131	21	13.04	79.96	1.55	14.7
July	11,385	551	2.45	50.57	1.32	63.5	80	13	11.99	74.33	1.41	11.8
August	10,876	530	2.39	49.14	1.23	59.9	112	18	12.56	77.49	1.66	12.4
Sept	11,131	539	2.48	51.28	1.24	63.8	154	25	13.15	80.17	1.58	18.0
October	11,889	586	2.59	52.47	1.21	61.0	136	22	13.01	79.34	1.42	17.6
November	13,255	645	2.59	53.19	1.05	66.4	137	22	13.67	83.44	1.46	9.2
December	12,654	612	2.67	55.16	1.07	63.4	141	23	13.33	81.47	1.25	16.2
Year 2020												
January	12,628	614	2.51	51.68	1.13	62.3	162	27	13.84	83.92	1.71	20.1
February	11,241	555	2.42	48.89	1.12	59.1	188	31	12.36	76.04	0.93	23.3
March	13,022	621	2.63	55.19	1.27	70.0	192	31	10.77	66.35	1.35	26.9
April	9,654	471	2.53	51.78	1.21	59.5	115	19	10.75	65.79	1.36	18.0
May	9,763	480	2.46	50.12	1.15	63.7	129	21	7.84	48.89	0.84	16.8
Year to Date												
2018	73,657	3,535	2.50	51.99	1.28	65.3	1,131	181	12.73	79.50	1.30	16.3
2019	64,641	3,126	2.59	53.45	1.18	64.2	794	130	13.36	81.87	1.47	13.4
2020	56,309	2,740	2.51	51.65	1.18	62.9	787	128	11.30	69.43	1.20	21.1
Rolling 12 Months Ending in May												
2019	161,714	7,815	2.51	51.93	1.26	66.9	1,983	320	13.83	85.64	1.43	14.6
2020	139,205	6,770	2.52	51.85	1.18	63.1	1,676	273	12.22	74.98	1.37	16.5

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010 - May 2020 (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												
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	2.56	69.67	5.83	23.2	742,347	718,360	4.54	4.69	62.7	4.12
2015	8,189	304	1.73	46.72	5.50	24.1	765,964	740,975	2.83	2.93	60.6	2.82
2016	3,664	135	2.00	54.12	5.84	11.2	744,034	721,358	2.65	2.74	59.6	2.68
2017	2,356	85	1.59	44.08	5.84	8.1	803,435	778,741	3.18	3.28	62.0	3.06
2018	1,911	71	1.75	47.47	5.74	7.1	792,297	769,790	3.39	3.49	58.6	3.25
2019	2,028	73	1.69	46.99	5.81	7.8	795,998	772,508	2.83	2.91	57.3	2.80
Year 2018												
January	0	0	--	--	--	0.0	69,164	67,045	3.59	3.70	58.1	3.42
February	0	0	--	--	--	0.0	60,810	58,990	3.41	3.52	58.6	3.26
March	0	0	--	--	--	0.0	61,164	59,423	2.85	2.94	56.5	2.81
April	0	0	--	--	--	0.0	61,184	59,457	2.92	3.01	58.4	2.87
May	0	0	--	--	--	0.0	63,410	61,557	2.99	3.08	58.8	2.92
June	0	0	--	--	--	0.0	65,879	64,032	3.14	3.23	59.8	3.03
July	160	6	1.70	45.10	5.83	6.8	68,296	66,523	3.03	3.11	57.4	2.93
August	260	10	1.78	46.99	5.55	12.2	69,386	67,341	3.12	3.21	58.1	3.03
Sept	664	25	1.78	47.54	6.02	31.0	67,825	66,022	3.12	3.20	60.1	3.04
October	477	17	1.76	48.96	5.45	20.6	66,419	64,687	3.75	3.85	59.0	3.56
November	172	6	1.69	46.62	5.85	8.4	71,469	69,556	3.97	4.08	61.6	3.75
December	178	6	1.70	47.00	5.53	7.3	67,289	65,157	4.70	4.85	56.6	4.31
Year 2019												
January	0	0	--	--	--	0.0	72,247	70,154	3.77	3.88	58.2	3.59
February	0	0	--	--	--	0.0	63,912	61,868	3.45	3.56	58.1	3.34
March	0	0	--	--	--	0.0	65,584	63,706	3.13	3.22	57.2	3.07
April	0	0	--	--	--	0.0	63,841	62,075	2.85	2.93	58.4	2.84
May	0	0	--	--	--	0.0	65,305	63,475	2.75	2.83	58.1	2.73
June	0	0	--	--	--	0.0	63,184	61,402	2.63	2.71	56.8	2.63
July	43	2	1.71	46.96	5.81	1.6	67,946	65,986	2.49	2.57	57.8	2.49
August	615	23	1.75	46.99	5.75	29.3	68,127	66,022	2.38	2.45	57.6	2.39
Sept	743	26	1.63	47.00	5.56	26.1	64,141	62,097	2.56	2.65	56.7	2.56
October	627	23	1.72	47.00	6.17	32.6	63,390	61,514	2.46	2.54	55.6	2.49
November	0	0	--	--	--	0.0	67,713	65,714	2.77	2.86	56.8	2.76
December	0	0	--	--	--	0.0	70,607	68,496	2.62	2.70	56.2	2.65
Year 2020												
January	0	0	--	--	--	0.0	71,557	69,397	2.36	2.44	56.1	2.41
February	0	0	--	--	--	0.0	65,225	63,315	2.12	2.19	56.4	2.19
March	0	0	--	--	--	0.0	65,805	63,979	2.00	2.05	56.0	2.12
April	0	0	--	--	--	0.0	61,924	60,107	1.87	1.92	56.7	1.97
May	0	0	--	--	--	0.0	64,228	62,457	1.97	2.02	58.1	2.04
Year to Date												
2018	0	0	--	--	--	0.0	315,733	306,471	3.16	3.26	58.1	3.06
2019	0	0	--	--	--	0.0	330,889	321,278	3.20	3.30	58.0	3.12
2020	0	0	--	--	--	0.0	328,739	319,255	2.07	2.13	56.6	2.15
Rolling 12 Months Ending in May												
2019	1,911	71	1.75	47.47	5.74	7.3	807,454	784,597	3.41	3.50	58.5	3.28
2020	2,028	73	1.70	47.00	5.82	9.0	793,848	770,485	2.36	2.43	56.7	2.40

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 2018 and prior years are final. Values for 2019 and 2020 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 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, May 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	19	52	-63.0%	16	49	3	3	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	3	-11.0%	0	0	3	3	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	16	49	-66.0%	16	49	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	276	1,639	-83.0%	0	0	265	1,628	0	0	11	11
New Jersey	35	56	-37.0%	0	0	35	56	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	241	1,583	-85.0%	0	0	230	1,572	0	0	11	11
East North Central	5,856	11,924	-51.0%	3,339	7,189	2,397	4,561	0	0	121	174
Illinois	1,775	3,268	-46.0%	364	773	1,291	2,348	0	0	121	146
Indiana	1,476	2,336	-37.0%	1,265	2,177	211	159	0	0	0	0
Michigan	708	2,436	-71.0%	669	2,387	39	49	0	0	0	0
Ohio	996	2,152	-54.0%	140	148	856	2,004	0	0	0	0
Wisconsin	901	1,731	-48.0%	901	1,704	0	0	0	0	0	28
West North Central	6,597	8,533	-23.0%	6,369	8,266	0	0	0	0	227	267
Iowa	990	1,458	-32.0%	827	1,266	0	0	0	0	164	191
Kansas	653	1,040	-37.0%	653	1,040	0	0	0	0	0	0
Minnesota	353	1,291	-73.0%	353	1,291	0	0	0	0	0	0
Missouri	1,994	2,328	-14.0%	1,994	2,328	0	0	0	0	0	0
Nebraska	997	915	9.0%	933	839	0	0	0	0	64	76
North Dakota	1,581	1,376	15.0%	1,581	1,376	0	0	0	0	0	0
South Dakota	28	125	-77.0%	28	125	0	0	0	0	0	0
South Atlantic	2,632	6,607	-60.0%	2,447	5,933	149	607	0	0	37	67
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	451	808	-44.0%	451	808	0	0	0	0	0	0
Georgia	339	1,294	-74.0%	329	1,285	0	0	0	0	10	10
Maryland	72	197	-63.0%	0	0	72	180	0	0	0	17
North Carolina	261	1,092	-76.0%	242	1,069	2	2	0	0	17	21
South Carolina	312	625	-50.0%	295	625	17	0	0	0	0	0
Virginia	25	268	-91.0%	16	226	0	23	0	0	9	20
West Virginia	1,171	2,323	-50.0%	1,114	1,920	57	402	0	0	0	0
East South Central	2,598	4,844	-46.0%	2,267	4,500	295	300	0	0	36	44
Alabama	788	1,029	-23.0%	788	1,029	0	0	0	0	0	0
Kentucky	1,205	2,613	-54.0%	1,205	2,613	0	0	0	0	0	0
Mississippi	359	461	-22.0%	63	161	295	300	0	0	0	0
Tennessee	247	741	-67.0%	211	697	0	0	0	0	36	44
West South Central	6,048	6,195	-2.4%	2,408	2,897	3,635	3,294	0	0	5	4
Arkansas	705	469	50.0%	486	300	215	165	0	0	5	4
Louisiana	297	555	-46.0%	215	393	82	162	0	0	0	0
Oklahoma	326	158	106.0%	326	158	0	0	0	0	0	0
Texas	4,719	5,013	-5.9%	1,381	2,046	3,338	2,968	0	0	0	0
Mountain	4,587	5,473	-16.0%	4,278	5,062	309	411	0	0	0	0
Arizona	380	959	-60.0%	380	959	0	0	0	0	0	0
Colorado	904	1,074	-16.0%	904	1,074	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	192	329	-42.0%	20	12	172	317	0	0	0	0
Nevada	171	148	15.0%	110	133	61	15	0	0	0	0
New Mexico	427	677	-37.0%	427	677	0	0	0	0	0	0
Utah	1,053	838	26.0%	1,020	799	33	39	0	0	0	0
Wyoming	1,460	1,449	0.8%	1,416	1,409	44	40	0	0	0	0
Pacific Contiguous	191	517	-63.0%	0	125	148	336	0	0	43	55
California	43	55	-21.0%	0	0	0	0	0	0	43	55
Oregon	0	125	-100.0%	0	125	0	0	0	0	0	0
Washington	148	336	-56.0%	0	0	148	336	0	0	0	0
Pacific Noncontiguous	93	77	21.0%	33	15	61	62	0	0	0	0
Alaska	33	15	116.0%	33	15	0	0	0	0	0	0
Hawaii	61	62	-2.0%	0	0	61	62	0	0	0	0
U.S. Total	28,899	45,861	-37.0%	21,157	34,035	7,262	11,203	0	0	480	623

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) May 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	98	82	21.0%	72	49	26	33	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	26	33	-21.0%	0	0	26	33	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	72	49	49.0%	72	49	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	3,959	8,640	-54.0%	37	0	3,890	8,608	0	0	32	32
New Jersey	171	245	-30.0%	0	0	171	245	0	0	0	0
New York	0	69	-100.0%	0	0	0	69	0	0	0	0
Pennsylvania	3,788	8,326	-55.0%	37	0	3,719	8,293	0	0	32	32
East North Central	35,935	52,475	-32.0%	20,096	30,250	15,061	21,459	0	0	778	766
Illinois	10,418	15,706	-34.0%	1,801	3,095	7,853	11,874	0	0	764	738
Indiana	9,238	12,753	-28.0%	8,182	11,882	1,056	870	0	0	0	0
Michigan	4,444	7,777	-43.0%	4,379	7,714	65	62	0	0	0	0
Ohio	6,886	9,722	-29.0%	798	1,069	6,088	8,653	0	0	0	0
Wisconsin	4,950	6,517	-24.0%	4,936	6,489	0	0	0	0	13	28
West North Central	39,247	41,214	-4.8%	38,078	39,913	0	0	4	5	1,165	1,296
Iowa	6,207	5,901	5.2%	5,362	4,996	0	0	0	0	845	905
Kansas	3,941	4,439	-11.0%	3,941	4,439	0	0	0	0	0	0
Minnesota	2,611	4,941	-47.0%	2,611	4,873	0	0	0	0	0	68
Missouri	12,328	11,625	6.0%	12,324	11,620	0	0	4	5	0	0
Nebraska	5,117	4,971	2.9%	4,797	4,649	0	0	0	0	320	322
North Dakota	8,613	8,658	-0.5%	8,613	8,658	0	0	0	0	0	0
South Dakota	430	680	-37.0%	430	680	0	0	0	0	0	0
South Atlantic	18,541	32,239	-42.0%	16,897	28,561	1,416	3,307	0	0	229	371
Delaware	0	71	-100.0%	0	0	0	71	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,399	3,802	-37.0%	2,388	3,779	0	0	0	0	11	23
Georgia	2,609	6,341	-59.0%	2,576	6,279	0	0	0	0	33	61
Maryland	503	1,327	-62.0%	0	0	503	1,235	0	0	0	92
North Carolina	3,244	5,180	-37.0%	3,126	5,080	21	19	0	0	97	81
South Carolina	2,232	3,538	-37.0%	2,212	3,530	17	0	0	0	3	8
Virginia	538	1,214	-56.0%	454	963	0	146	0	0	84	106
West Virginia	7,016	10,765	-35.0%	6,142	8,930	874	1,836	0	0	0	0
East South Central	16,283	22,425	-27.0%	14,739	20,932	1,307	1,231	0	0	237	261
Alabama	4,262	5,431	-22.0%	4,262	5,431	0	0	0	0	0	0
Kentucky	8,755	12,766	-31.0%	8,755	12,766	0	0	0	0	0	0
Mississippi	1,581	1,834	-14.0%	274	603	1,307	1,231	0	0	0	0
Tennessee	1,685	2,394	-30.0%	1,447	2,133	0	0	0	0	237	261
West South Central	29,835	37,215	-20.0%	13,498	19,746	16,285	17,364	0	0	51	105
Arkansas	4,092	5,537	-26.0%	3,131	4,589	940	918	0	0	21	30
Louisiana	1,671	2,668	-37.0%	1,294	1,999	377	669	0	0	0	0
Oklahoma	956	2,141	-55.0%	863	2,052	63	14	0	0	30	75
Texas	23,115	26,870	-14.0%	8,210	11,106	14,905	15,764	0	0	0	0
Mountain	26,901	31,815	-15.0%	23,953	27,884	2,949	3,930	0	0	0	0
Arizona	3,113	6,038	-48.0%	3,113	6,038	0	0	0	0	0	0
Colorado	5,107	5,949	-14.0%	5,107	5,949	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,489	3,427	-27.0%	93	113	2,396	3,313	0	0	0	0
Nevada	510	753	-32.0%	254	517	256	236	0	0	0	0
New Mexico	2,788	3,181	-12.0%	2,788	3,181	0	0	0	0	0	0
Utah	5,069	4,267	19.0%	4,981	4,097	88	170	0	0	0	0
Wyoming	7,826	8,200	-4.6%	7,617	7,990	209	211	0	0	0	0
Pacific Contiguous	2,147	2,832	-24.0%	525	612	1,374	1,925	0	0	248	295
California	248	295	-16.0%	0	0	0	0	0	0	248	295
Oregon	525	612	-14.0%	525	612	0	0	0	0	0	0
Washington	1,374	1,925	-29.0%	0	0	1,374	1,925	0	0	0	0
Pacific Noncontiguous	447	431	3.7%	148	130	299	301	0	0	0	0
Alaska	148	130	13.0%	148	130	0	0	0	0	0	0
Hawaii	299	301	-0.5%	0	0	299	301	0	0	0	0
U.S. Total	173,395	229,368	-24.0%	128,044	168,078	42,607	58,159	4	5	2,740	3,126

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, May 2020 and 2019
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	136	1	NM	5	1	131	0	0	0	0	0
Connecticut	35	0	--	0	0	35	0	0	0	0	0
Maine	2	0	264.0%	0	0	2	0	0	0	0	0
Massachusetts	99	0	--	5	0	94	0	0	0	0	0
New Hampshire	0	1	-100.0%	0	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	51	32	57.0%	15	0	30	27	0	0	6	6
New Jersey	0	0	0.0%	0	0	0	0	0	0	0	0
New York	15	0	NM	15	0	0	0	0	0	0	0
Pennsylvania	35	32	11.0%	0	0	29	26	0	0	6	6
East North Central	62	77	-20.0%	44	41	16	35	0	0	2	1
Illinois	4	10	-63.0%	0	1	4	9	0	0	0	0
Indiana	26	17	50.0%	26	17	0	0	0	0	0	0
Michigan	13	7	79.0%	12	7	0	0	0	0	1	0
Ohio	15	40	-63.0%	2	13	12	26	0	0	1	1
Wisconsin	4	3	47.0%	4	3	0	0	0	0	0	0
West North Central	48	48	-0.1%	48	48	0	0	0	0	0	0
Iowa	7	4	71.0%	7	4	0	0	0	0	0	0
Kansas	9	15	-38.0%	9	15	0	0	0	0	0	0
Minnesota	5	4	16.0%	5	4	0	0	0	0	0	0
Missouri	24	16	50.0%	24	16	0	0	0	0	0	0
Nebraska	0	3	-100.0%	0	3	0	0	0	0	0	0
North Dakota	3	6	-56.0%	3	6	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	180	92	95.0%	93	75	75	9	0	0	13	8
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	49	11	347.0%	48	9	0	0	0	0	1	2
Georgia	7	15	-54.0%	6	11	0	0	0	0	1	4
Maryland	64	8	734.0%	0	0	64	8	0	0	0	0
North Carolina	19	32	-42.0%	17	31	0	0	0	0	2	1
South Carolina	13	6	121.0%	9	6	0	0	0	0	4	0
Virginia	14	7	109.0%	0	4	10	1	0	0	4	2
West Virginia	14	14	-1.0%	14	14	0	0	0	0	0	0
East South Central	13	36	-66.0%	12	36	0	0	0	0	0	0
Alabama	1	2	-66.0%	1	2	0	0	0	0	0	0
Kentucky	9	17	-48.0%	9	17	0	0	0	0	0	0
Mississippi	0	2	-100.0%	0	2	0	0	0	0	0	0
Tennessee	3	15	-80.0%	3	15	0	0	0	0	0	0
West South Central	40	33	20.0%	37	22	3	11	0	0	0	0
Arkansas	6	3	84.0%	5	0	1	3	0	0	0	0
Louisiana	3	5	-38.0%	3	5	0	0	0	0	0	0
Oklahoma	23	7	213.0%	23	7	0	0	0	0	0	0
Texas	8	18	-56.0%	6	10	2	8	0	0	0	0
Mountain	29	41	-30.0%	24	35	5	6	0	0	0	0
Arizona	8	20	-60.0%	8	20	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	4	0.3%	0	0	4	4	0	0	0	0
Nevada	0	2	-90.0%	0	1	0	2	0	0	0	0
New Mexico	5	5	-4.7%	5	5	0	0	0	0	0	0
Utah	4	2	89.0%	3	2	1	0	0	0	0	0
Wyoming	8	8	1.7%	8	8	0	0	0	0	0	0
Pacific Contiguous	0	1	-100.0%	0	0	0	1	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	1	-100.0%	0	0	0	1	0	0	0	0
Pacific Noncontiguous	532	732	-27.0%	393	551	139	181	0	0	0	0
Alaska	3	3	6.7%	3	3	0	0	0	0	0	0
Hawaii	529	729	-27.0%	390	549	139	181	0	0	0	0
U.S. Total	1,090	1,095	-0.5%	671	810	398	270	0	0	21	15

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) May 2020 and 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	178	190	-6.3%	7	7	171	182	0	0	0	0
Connecticut	55	6	822.0%	0	0	55	6	0	0	0	0
Maine	19	126	-85.0%	0	0	19	126	0	0	0	0
Massachusetts	102	51	101.0%	5	0	97	51	0	0	0	0
New Hampshire	2	7	-74.0%	2	7	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	161	662	-76.0%	15	345	115	288	0	0	30	30
New Jersey	37	22	67.0%	0	0	37	22	0	0	0	0
New York	21	427	-95.0%	15	345	6	82	0	0	0	0
Pennsylvania	103	213	-52.0%	0	0	73	184	0	0	30	30
East North Central	361	403	-10.0%	230	220	124	165	0	0	7	18
Illinois	20	42	-53.0%	1	1	19	40	0	0	0	0
Indiana	137	86	60.0%	137	86	0	0	0	0	0	0
Michigan	73	54	36.0%	70	48	0	0	0	0	4	6
Ohio	109	201	-46.0%	7	72	97	117	0	0	4	12
Wisconsin	22	20	9.9%	15	13	7	8	0	0	0	0
West North Central	241	215	12.0%	241	215	0	0	0	0	0	0
Iowa	36	44	-19.0%	36	44	0	0	0	0	0	0
Kansas	66	40	63.0%	66	40	0	0	0	0	0	0
Minnesota	10	16	-38.0%	10	16	0	0	0	0	0	0
Missouri	68	67	1.5%	68	67	0	0	0	0	0	0
Nebraska	1	9	-94.0%	1	9	0	0	0	0	0	0
North Dakota	55	39	42.0%	55	39	0	0	0	0	0	0
South Dakota	5	0	--	5	0	0	0	0	0	0	0
South Atlantic	544	699	-22.0%	364	572	96	48	0	0	83	79
Delaware	16	1	NM	0	0	16	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	90	195	-54.0%	77	176	0	0	0	0	13	19
Georgia	81	98	-17.0%	62	58	1	1	0	0	19	39
Maryland	68	34	101.0%	0	0	68	34	0	0	0	0
North Carolina	96	131	-27.0%	75	122	0	0	0	0	21	8
South Carolina	51	41	24.0%	36	37	0	0	0	0	15	4
Virginia	37	102	-64.0%	10	83	11	11	0	0	16	8
West Virginia	105	97	8.8%	105	97	0	0	0	0	0	0
East South Central	93	141	-34.0%	86	130	0	8	0	0	7	3
Alabama	2	17	-86.0%	2	8	0	8	0	0	0	0
Kentucky	55	71	-22.0%	55	71	0	0	0	0	0	0
Mississippi	4	13	-71.0%	4	13	0	0	0	0	0	0
Tennessee	33	42	-22.0%	25	39	0	0	0	0	7	3
West South Central	128	111	16.0%	103	78	25	32	0	0	0	0
Arkansas	38	33	16.0%	30	20	8	13	0	0	0	0
Louisiana	6	5	39.0%	6	5	0	0	0	0	0	0
Oklahoma	44	19	133.0%	44	19	0	0	0	0	0	0
Texas	40	54	-27.0%	22	35	17	19	0	0	0	0
Mountain	190	170	11.0%	180	157	9	13	0	0	0	0
Arizona	48	70	-32.0%	48	70	0	0	0	0	0	0
Colorado	2	2	-27.0%	2	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	7	11	-36.0%	0	0	7	11	0	0	0	0
Nevada	6	11	-48.0%	5	8	1	3	0	0	0	0
New Mexico	23	21	9.8%	23	21	0	0	0	0	0	0
Utah	55	34	60.0%	53	34	2	0	0	0	0	0
Wyoming	50	21	136.0%	50	21	0	0	0	0	0	0
Pacific Contiguous	4	10	-59.0%	0	6	4	4	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	4	10	-59.0%	0	6	4	4	0	0	0	0
Pacific Noncontiguous	2,999	3,745	-20.0%	2,413	3,064	587	681	0	0	0	0
Alaska	13	8	76.0%	13	8	0	0	0	0	0	0
Hawaii	2,986	3,737	-20.0%	2,399	3,057	587	681	0	0	0	0
U.S. Total	4,899	6,346	-23.0%	3,639	4,795	1,132	1,421	0	0	128	130

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, May 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
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	22	50	-55.0%	22	50	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	19	48	-60.0%	19	48	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	2	42.0%	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	74	38	93.0%	74	38	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	74	38	93.0%	74	38	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	98	74	32.0%	98	74	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	98	74	32.0%	98	74	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	195	162	20.0%	195	162	0	0	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:
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 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) May 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 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	170	95	79.0%	170	95	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	143	77	86.0%	143	77	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	27	18	49.0%	27	18	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	262	191	37.0%	262	191	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	262	191	37.0%	262	191	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	655	464	41.0%	655	464	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	655	464	41.0%	655	464	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	1,087	750	45.0%	1,087	750	0	0	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:
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 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, May 2020 and 2019
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	17,365	19,374	-10.0%	19	10	17,346	19,364	0	0	0	0
Connecticut	9,988	10,039	-0.5%	0	0	9,988	10,039	0	0	0	0
Maine	728	471	55.0%	0	0	728	471	0	0	0	0
Massachusetts	2,873	5,308	-46.0%	18	5	2,856	5,303	0	0	0	0
New Hampshire	1,122	273	311.0%	1	5	1,120	268	0	0	0	0
Rhode Island	2,653	3,284	-19.0%	0	0	2,653	3,284	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	83,522	86,846	-3.8%	4,621	5,409	78,088	80,656	0	0	813	780
New Jersey	11,604	19,348	-40.0%	0	0	11,604	19,348	0	0	0	0
New York	20,923	20,525	1.9%	4,621	5,409	15,776	14,577	0	0	525	539
Pennsylvania	50,996	46,972	8.6%	0	0	50,708	46,731	0	0	288	241
East North Central	73,772	69,480	6.2%	26,403	20,779	45,706	47,036	450	568	1,212	1,098
Illinois	5,515	4,435	24.0%	263	557	5,250	3,875	0	0	2	3
Indiana	15,534	13,659	14.0%	7,932	4,990	7,602	8,670	0	0	0	0
Michigan	18,746	18,542	1.1%	4,872	3,765	12,934	13,786	450	568	489	423
Ohio	24,440	24,221	0.9%	4,776	3,820	19,181	19,915	0	0	482	487
Wisconsin	9,537	8,623	11.0%	8,560	7,648	738	789	0	0	239	185
West North Central	10,490	14,965	-30.0%	9,036	12,820	1,071	1,869	181	215	202	62
Iowa	4,663	4,737	-1.6%	4,461	4,677	0	0	0	0	202	60
Kansas	575	2,301	-75.0%	575	2,301	0	0	0	0	0	0
Minnesota	2,388	2,908	-18.0%	2,285	2,794	102	112	1	0	0	1
Missouri	2,513	4,451	-44.0%	1,363	2,479	969	1,757	180	214	0	0
Nebraska	106	388	-73.0%	106	388	0	0	0	0	0	0
North Dakota	246	181	36.0%	246	181	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	218,409	220,872	-1.1%	180,452	186,149	34,604	31,678	0	0	3,352	3,045
Delaware	1,750	1,786	-2.0%	0	0	1,750	1,786	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	106,133	119,640	-11.0%	102,318	115,124	3,465	4,126	0	0	349	389
Georgia	31,190	29,704	5.0%	23,024	22,516	7,472	6,526	0	0	695	662
Maryland	5,430	7,776	-30.0%	652	1,586	4,777	5,989	0	0	0	202
North Carolina	21,243	21,701	-2.1%	16,886	16,672	4,055	4,789	0	0	302	240
South Carolina	15,656	15,454	1.3%	15,377	15,219	73	162	0	0	206	73
Virginia	34,526	23,506	47.0%	22,144	15,002	11,161	7,677	0	0	1,220	827
West Virginia	2,481	1,304	90.0%	50	30	1,851	623	0	0	580	651
East South Central	76,345	86,125	-11.0%	56,543	60,730	17,598	23,231	0	0	2,204	2,165
Alabama	26,457	34,430	-23.0%	9,292	13,841	17,164	20,589	0	0	0	0
Kentucky	8,445	7,808	8.2%	8,018	7,797	427	11	0	0	0	0
Mississippi	33,435	31,936	4.7%	33,428	29,305	7	2,631	0	0	0	0
Tennessee	8,008	11,951	-33.0%	5,805	9,787	0	0	0	0	2,204	2,165
West South Central	234,035	235,964	-0.8%	69,525	68,229	112,275	113,688	0	0	52,235	54,046
Arkansas	6,106	9,340	-35.0%	4,773	8,275	1,120	813	0	0	214	251
Louisiana	44,892	46,716	-3.9%	24,707	24,338	3,568	3,751	0	0	16,617	18,628
Oklahoma	24,748	18,371	35.0%	14,513	10,552	9,680	7,465	0	0	555	353
Texas	158,290	161,537	-2.0%	25,533	25,064	97,907	101,659	0	0	34,850	34,814
Mountain	64,906	55,586	17.0%	54,751	48,048	10,112	7,521	0	0	43	17
Arizona	32,256	23,249	39.0%	25,416	17,242	6,840	6,007	0	0	0	0
Colorado	8,775	9,007	-2.6%	7,915	8,081	860	926	0	0	0	0
Idaho	118	11	992.0%	118	11	0	0	0	0	0	0
Montana	186	200	-7.2%	186	200	0	0	0	0	0	0
Nevada	12,998	11,024	18.0%	12,998	11,024	0	0	0	0	0	0
New Mexico	6,756	6,971	-3.1%	4,344	6,386	2,412	585	0	0	0	0
Utah	3,705	4,925	-25.0%	3,661	4,908	0	0	0	0	43	17
Wyoming	112	199	-44.0%	112	196	0	4	0	0	0	0
Pacific Contiguous	31,525	26,500	19.0%	11,456	8,591	17,673	15,646	0	0	2,396	2,263
California	28,720	23,521	22.0%	9,631	7,840	16,692	13,418	0	0	2,396	2,263
Oregon	1,503	1,769	-15.0%	523	273	980	1,496	0	0	0	0
Washington	1,303	1,209	7.7%	1,302	477	1	732	0	0	0	0
Pacific Noncontiguous	49	5	827.0%	49	5	0	0	0	0	0	0
Alaska	49	5	827.0%	49	5	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	810,417	815,717	-0.6%	412,855	410,771	334,474	340,689	631	782	62,457	63,475

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 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) May 2020 and 2019
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	109,317	110,410	-1.0%	22	41	109,295	110,369	0	0	0	0
Connecticut	58,017	51,008	14.0%	0	0	58,017	51,008	0	0	0	0
Maine	2,157	2,776	-22.0%	0	0	2,157	2,776	0	0	0	0
Massachusetts	28,524	39,712	-28.0%	18	29	28,506	39,684	0	0	0	0
New Hampshire	7,575	5,572	36.0%	4	12	7,571	5,560	0	0	0	0
Rhode Island	13,044	11,342	15.0%	0	0	13,044	11,342	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	480,847	445,777	7.9%	30,503	30,941	445,890	410,620	0	0	4,454	4,216
New Jersey	73,222	100,752	-27.0%	0	0	73,222	100,752	0	0	0	0
New York	119,624	118,777	0.7%	30,503	30,941	86,033	84,691	0	0	3,087	3,145
Pennsylvania	288,002	226,248	27.0%	0	0	286,635	225,178	0	0	1,367	1,071
East North Central	427,477	378,529	13.0%	149,649	124,509	268,941	244,615	2,515	2,982	6,373	6,423
Illinois	37,827	26,307	44.0%	7,471	2,427	30,346	23,869	0	0	10	11
Indiana	82,944	73,314	13.0%	36,300	29,203	46,644	44,111	0	0	0	0
Michigan	106,390	92,503	15.0%	28,902	20,856	72,389	65,872	2,515	2,982	2,585	2,793
Ohio	141,224	134,460	5.0%	22,965	24,634	115,736	107,199	0	0	2,523	2,627
Wisconsin	59,091	51,945	14.0%	54,011	47,389	3,826	3,565	0	0	1,255	991
West North Central	59,498	65,537	-9.2%	48,773	56,870	7,860	6,019	902	855	1,963	1,793
Iowa	19,804	22,501	-12.0%	17,841	20,743	0	0	0	0	1,963	1,758
Kansas	6,101	6,514	-6.3%	6,101	6,514	0	0	0	0	0	0
Minnesota	14,313	17,489	-18.0%	13,786	17,250	525	201	2	2	0	35
Missouri	17,253	17,281	-0.2%	9,018	10,611	7,335	5,817	900	853	0	0
Nebraska	589	1,012	-42.0%	589	1,012	0	0	0	0	0	0
North Dakota	1,438	740	94.0%	1,438	740	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,064,707	983,315	8.3%	884,519	824,597	164,572	143,868	0	0	15,616	14,850
Delaware	7,328	7,910	-7.4%	0	0	7,328	7,910	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	502,328	471,037	6.6%	484,793	457,665	15,930	11,583	0	0	1,606	1,789
Georgia	139,981	134,938	3.7%	103,903	102,826	32,391	28,625	0	0	3,687	3,486
Maryland	36,336	39,946	-9.0%	8,489	12,113	27,847	26,682	0	0	0	1,151
North Carolina	119,424	116,289	2.7%	97,122	94,772	20,879	20,537	0	0	1,422	980
South Carolina	73,599	64,082	15.0%	72,498	62,094	327	1,535	0	0	774	453
Virginia	177,645	144,361	23.0%	117,627	94,536	54,890	45,479	0	0	5,128	4,347
West Virginia	8,066	4,754	70.0%	87	592	4,981	1,518	0	0	2,998	2,644
East South Central	360,238	357,882	0.7%	255,257	238,486	93,067	108,126	0	0	11,913	11,269
Alabama	130,493	140,676	-7.2%	42,039	48,366	88,454	92,309	0	0	0	0
Kentucky	33,172	36,796	-9.8%	32,413	35,571	759	1,225	0	0	0	0
Mississippi	147,757	129,006	15.0%	143,903	114,414	3,854	14,592	0	0	0	0
Tennessee	48,815	51,404	-5.0%	36,902	40,135	0	0	0	0	11,913	11,269
West South Central	1,110,239	1,055,516	5.2%	342,066	300,246	501,529	483,946	0	0	266,644	271,324
Arkansas	37,965	45,629	-17.0%	31,024	38,800	5,798	5,608	0	0	1,143	1,221
Louisiana	216,358	207,518	4.3%	119,596	101,884	11,784	13,660	0	0	84,977	91,973
Oklahoma	121,514	100,173	21.0%	74,012	61,428	45,131	36,831	0	0	2,372	1,914
Texas	734,402	702,196	4.6%	117,434	98,133	438,816	427,847	0	0	178,153	176,216
Mountain	307,272	276,622	11.0%	258,998	234,076	48,071	42,507	0	0	203	39
Arizona	130,196	111,388	17.0%	99,974	86,137	30,223	25,252	0	0	0	0
Colorado	50,434	45,958	9.7%	43,870	39,641	6,565	6,317	0	0	0	0
Idaho	3,751	2,918	29.0%	3,751	2,918	0	0	0	0	0	0
Montana	935	1,015	-7.9%	935	1,015	0	0	0	0	0	0
Nevada	65,028	57,959	12.0%	65,028	57,959	0	0	0	0	0	0
New Mexico	34,753	31,969	8.7%	23,479	21,040	11,275	10,928	0	0	0	0
Utah	20,873	24,487	-15.0%	20,670	24,448	0	0	0	0	203	39
Wyoming	1,301	928	40.0%	1,292	919	9	10	0	0	0	0
Pacific Contiguous	244,405	228,105	7.1%	96,137	82,984	136,179	133,758	0	0	12,089	11,363
California	178,665	171,181	4.4%	63,152	59,237	103,424	100,580	0	0	12,089	11,363
Oregon	43,031	40,771	5.5%	16,467	14,437	26,564	26,335	0	0	0	0
Washington	22,709	16,153	41.0%	16,518	9,310	6,191	6,843	0	0	0	0
Pacific Noncontiguous	151	241	-37.0%	151	241	0	0	0	0	0	0
Alaska	151	241	-37.0%	151	241	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,164,152	3,901,935	6.7%	2,066,076	1,892,990	1,775,405	1,683,829	3,417	3,837	319,255	321,278

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, May 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019
New England	W	W	W	3.10	3.54	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.10	3.54	-12.0%	3.10	3.54	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.29	1.92	19.0%	--	--	2.29	1.92
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	--	--	W	W
East North Central	1.88	1.99	-5.5%	1.99	2.11	1.74	1.81
Illinois	W	W	W	1.67	1.96	W	W
Indiana	W	W	W	2.06	2.13	W	W
Michigan	W	W	W	2.04	2.07	W	W
Ohio	1.83	1.75	4.6%	1.93	1.79	1.82	1.75
Wisconsin	1.97	2.24	-12.0%	1.97	2.24	--	--
West North Central	1.58	1.64	-3.7%	1.58	1.64	--	--
Iowa	1.56	1.54	1.3%	1.56	1.54	--	--
Kansas	1.66	1.60	3.8%	1.66	1.60	--	--
Minnesota	1.95	1.99	-2.0%	1.95	1.99	--	--
Missouri	1.55	1.66	-6.6%	1.55	1.66	--	--
Nebraska	1.24	1.24	0.0%	1.24	1.24	--	--
North Dakota	1.75	1.60	9.4%	1.75	1.60	--	--
South Dakota	1.72	1.80	-4.4%	1.72	1.80	--	--
South Atlantic	2.45	2.55	-3.9%	2.46	2.58	2.29	2.34
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.57	2.86	-10.0%	2.57	2.86	--	--
Georgia	2.73	2.72	0.4%	2.73	2.72	--	--
Maryland	W	2.63	W	--	--	W	2.63
North Carolina	W	W	W	2.52	2.72	W	W
South Carolina	W	3.25	W	3.22	3.25	W	--
Virginia	2.24	W	W	2.24	2.68	--	W
West Virginia	W	W	W	2.16	2.08	W	W
East South Central	W	W	W	1.97	2.10	W	W
Alabama	2.03	2.39	-15.0%	2.03	2.39	--	--
Kentucky	1.95	1.93	1.0%	1.95	1.93	--	--
Mississippi	W	W	W	2.56	3.04	W	W
Tennessee	1.78	2.16	-18.0%	1.78	2.16	--	--
West South Central	1.73	1.88	-8.0%	1.92	2.27	1.60	1.53
Arkansas	W	W	W	1.93	2.08	W	W
Louisiana	W	W	W	2.11	3.71	W	W
Oklahoma	1.55	1.84	-16.0%	1.55	1.84	--	--
Texas	W	W	W	1.98	2.06	W	W
Mountain	1.88	W	W	1.90	2.11	1.63	W
Arizona	2.24	2.96	-24.0%	2.24	2.96	--	--
Colorado	1.62	1.64	-1.2%	1.62	1.64	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.18	2.20	W	W
Nevada	W	W	W	2.32	2.76	W	W
New Mexico	2.54	2.44	4.1%	2.54	2.44	--	--
Utah	2.07	2.00	3.5%	2.07	2.00	--	--
Wyoming	W	W	W	1.59	1.69	W	W
Pacific Contiguous	W	W	W	--	2.19	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.19	--	--	2.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.53	3.44	W	W
Alaska	3.53	3.44	2.6%	3.53	3.44	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.89	2.05	-7.8%	1.93	2.12	1.76	1.83

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) May 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	W	W	W	3.12	3.54	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.12	3.54	-12.0%	3.12	3.54	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.83	2.00	-8.5%	2.99	--	1.81	2.00
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	1.93	W	2.99	--	W	1.93
East North Central	1.91	2.00	-4.5%	2.03	2.12	1.75	1.83
Illinois	W	1.83	W	1.65	1.98	W	1.79
Indiana	W	W	W	2.10	2.15	W	W
Michigan	W	W	W	2.02	2.08	W	W
Ohio	1.79	W	W	1.87	1.86	1.78	W
Wisconsin	2.08	2.24	-7.1%	2.08	2.24	--	--
West North Central	1.57	1.64	-4.3%	1.57	1.64	--	--
Iowa	1.52	1.56	-2.6%	1.52	1.56	--	--
Kansas	1.63	1.64	-0.6%	1.63	1.64	--	--
Minnesota	1.98	2.03	-2.5%	1.98	2.03	--	--
Missouri	1.57	1.70	-7.6%	1.57	1.70	--	--
Nebraska	1.24	1.22	1.6%	1.24	1.22	--	--
North Dakota	1.61	1.56	3.2%	1.61	1.56	--	--
South Dakota	1.90	1.84	3.3%	1.90	1.84	--	--
South Atlantic	2.47	2.64	-6.4%	2.51	2.67	2.09	2.36
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.57	2.90	-11.0%	2.57	2.90	--	--
Georgia	2.74	2.72	0.7%	2.74	2.72	--	--
Maryland	W	2.72	W	--	--	W	2.72
North Carolina	W	W	W	2.59	3.03	W	W
South Carolina	W	3.27	W	3.13	3.27	W	--
Virginia	2.49	W	W	2.49	2.76	--	W
West Virginia	W	W	W	2.14	2.11	W	W
East South Central	W	W	W	1.95	2.10	W	W
Alabama	2.03	2.34	-13.0%	2.03	2.34	--	--
Kentucky	1.89	1.95	-3.1%	1.89	1.95	--	--
Mississippi	W	W	W	2.82	3.20	W	W
Tennessee	1.93	2.24	-14.0%	1.93	2.24	--	--
West South Central	1.79	1.92	-6.8%	1.99	2.15	1.62	1.65
Arkansas	W	W	W	1.90	2.05	W	W
Louisiana	W	W	W	2.67	3.22	W	W
Oklahoma	W	W	W	1.54	1.79	W	W
Texas	1.71	W	W	1.96	2.07	1.58	W
Mountain	W	W	W	1.94	2.14	W	W
Arizona	2.17	2.68	-19.0%	2.17	2.68	--	--
Colorado	1.70	1.78	-4.5%	1.70	1.78	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.26	1.98	W	W
Nevada	W	W	W	2.44	2.79	W	W
New Mexico	2.53	2.47	2.4%	2.53	2.47	--	--
Utah	2.07	1.99	4.0%	2.07	1.99	--	--
Wyoming	W	W	W	1.64	1.88	W	W
Pacific Contiguous	W	W	W	2.18	2.18	W	W
California	--	--	--	--	--	--	--
Oregon	2.18	2.18	0.0%	2.18	2.18	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.69	3.44	W	W
Alaska	3.69	3.44	7.3%	3.69	3.44	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.91	2.07	-7.7%	1.96	2.14	1.77	1.86

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 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, May 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019
New England	W	W	W	7.37	17.60	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	--	W	7.37	--	W	--
New Hampshire	--	17.60	--	--	17.60	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	6.29	15.44	-59.0%	5.22	--	6.83	15.44
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	5.22	--	W	W
Pennsylvania	W	W	W	--	--	W	W
East North Central	W	15.98	W	6.89	15.84	W	16.13
Illinois	W	W	W	--	16.40	W	W
Indiana	6.92	15.84	-56.0%	6.92	15.84	--	--
Michigan	6.58	15.27	-57.0%	6.58	15.27	--	--
Ohio	W	W	W	7.94	16.02	W	W
Wisconsin	7.06	16.29	-57.0%	7.06	16.29	--	--
West North Central	7.05	15.80	-55.0%	7.05	15.80	--	--
Iowa	7.71	15.71	-51.0%	7.71	15.71	--	--
Kansas	7.59	15.90	-52.0%	7.59	15.90	--	--
Minnesota	6.14	16.30	-62.0%	6.14	16.30	--	--
Missouri	6.75	15.42	-56.0%	6.75	15.42	--	--
Nebraska	--	15.85	--	--	15.85	--	--
North Dakota	8.15	16.31	-50.0%	8.15	16.31	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	7.81	W	W	8.24	15.64	7.31	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	7.60	16.31	-53.0%	7.60	16.31	--	--
Georgia	7.40	16.19	-54.0%	7.40	16.19	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	7.41	15.36	-52.0%	7.41	15.36	--	--
South Carolina	W	15.65	W	14.64	15.65	W	--
Virginia	W	W	W	--	16.08	W	W
West Virginia	7.75	15.26	-49.0%	7.75	15.26	--	--
East South Central	7.64	15.20	-50.0%	7.64	15.20	--	--
Alabama	8.15	15.91	-49.0%	8.15	15.91	--	--
Kentucky	7.82	15.28	-49.0%	7.82	15.28	--	--
Mississippi	--	15.04	--	--	15.04	--	--
Tennessee	7.00	15.07	-54.0%	7.00	15.07	--	--
West South Central	W	W	W	6.81	15.69	W	W
Arkansas	W	W	W	6.75	--	W	W
Louisiana	6.17	15.24	-60.0%	6.17	15.24	--	--
Oklahoma	6.88	15.80	-56.0%	6.88	15.80	--	--
Texas	W	W	W	6.92	15.81	W	W
Mountain	9.47	W	W	9.49	18.84	9.39	W
Arizona	11.47	19.72	-42.0%	11.47	19.72	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	16.30	W	W
New Mexico	7.36	17.86	-59.0%	7.36	17.86	--	--
Utah	W	17.95	W	8.88	17.95	W	--
Wyoming	9.06	17.82	-49.0%	9.06	17.82	--	--
Pacific Contiguous	--	W	W	--	--	--	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	W	W	--	--	--	W
Pacific Noncontiguous	W	W	W	6.24	13.24	W	W
Alaska	6.91	15.54	-56.0%	6.91	15.54	--	--
Hawaii	W	W	W	6.23	13.23	W	W
U.S. Total	6.54	14.47	-55.0%	6.76	14.11	6.16	15.62

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) May 2020 and 2019 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	W	W	W	10.22	17.70	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	7.37	--	W	W
New Hampshire	17.38	17.70	-1.8%	17.38	17.70	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	12.91	W	5.22	12.15	W	13.85
New Jersey	W	W	W	--	--	W	W
New York	7.44	12.70	-41.0%	5.22	12.15	13.16	15.06
Pennsylvania	8.85	W	W	--	--	8.85	W
East North Central	10.45	15.49	-33.0%	10.19	15.08	10.94	16.03
Illinois	W	W	W	13.43	16.18	W	W
Indiana	10.42	15.09	-31.0%	10.42	15.09	--	--
Michigan	9.89	13.98	-29.0%	9.89	13.98	--	--
Ohio	10.58	15.68	-33.0%	10.51	15.78	10.58	15.62
Wisconsin	W	W	W	9.16	15.16	W	W
West North Central	9.76	14.92	-35.0%	9.76	14.92	--	--
Iowa	9.84	15.07	-35.0%	9.84	15.07	--	--
Kansas	9.99	15.40	-35.0%	9.99	15.40	--	--
Minnesota	9.42	15.42	-39.0%	9.42	15.42	--	--
Missouri	8.76	14.71	-40.0%	8.76	14.71	--	--
Nebraska	13.12	15.02	-13.0%	13.12	15.02	--	--
North Dakota	10.77	14.39	-25.0%	10.77	14.39	--	--
South Dakota	8.82	--	--	8.82	--	--	--
South Atlantic	10.60	15.13	-30.0%	11.31	15.21	7.53	14.16
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	8.89	16.03	-45.0%	8.89	16.03	--	--
Georgia	W	W	W	11.90	14.68	W	W
Maryland	7.22	W	W	--	--	7.22	W
North Carolina	11.52	14.86	-22.0%	11.52	14.86	--	--
South Carolina	W	15.37	W	12.53	15.37	W	--
Virginia	W	W	W	14.35	13.94	W	W
West Virginia	11.88	15.53	-24.0%	11.88	15.53	--	--
East South Central	11.02	W	W	11.02	14.68	--	W
Alabama	9.26	W	W	9.26	15.17	--	W
Kentucky	10.87	14.71	-26.0%	10.87	14.71	--	--
Mississippi	11.40	14.54	-22.0%	11.40	14.54	--	--
Tennessee	11.44	14.57	-21.0%	11.44	14.57	--	--
West South Central	9.30	W	W	9.09	14.96	10.20	W
Arkansas	W	W	W	9.72	15.19	W	W
Louisiana	10.82	15.24	-29.0%	10.82	15.24	--	--
Oklahoma	7.68	15.68	-51.0%	7.68	15.68	--	--
Texas	W	W	W	10.60	14.39	W	W
Mountain	13.48	W	W	13.52	17.08	12.59	W
Arizona	13.70	16.83	-19.0%	13.70	16.83	--	--
Colorado	12.13	17.36	-30.0%	12.13	17.36	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	16.17	14.96	W	W
New Mexico	13.49	18.25	-26.0%	13.49	18.25	--	--
Utah	W	17.60	W	13.51	17.60	W	--
Wyoming	13.18	16.80	-22.0%	13.18	16.80	--	--
Pacific Contiguous	W	W	W	--	16.52	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	16.52	W	W
Pacific Noncontiguous	W	W	W	10.79	13.18	W	W
Alaska	12.36	15.54	-20.0%	12.36	15.54	--	--
Hawaii	W	W	W	10.78	13.18	W	W
U.S. Total	10.52	13.78	-24.0%	10.80	13.69	9.56	14.05

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 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, May 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.32	1.54	-14.0%	1.32	1.54	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.23	1.53	-20.0%	1.23	1.53	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.86	1.84	1.1%	1.86	1.84	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.95	2.87	-32.0%	1.95	2.87	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.95	2.87	-32.0%	1.95	2.87	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.41	2.36	-40.0%	1.41	2.36	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.41	2.36	-40.0%	1.41	2.36	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.61	2.24	-28.0%	1.61	2.24	--	--

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 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) May 2020 and 2019 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.31	1.61	-19.0%	1.31	1.61	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.21	1.54	-21.0%	1.21	1.54	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.88	1.88	0.0%	1.88	1.88	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.89	2.76	-32.0%	1.89	2.76	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.89	2.76	-32.0%	1.89	2.76	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.36	2.26	-40.0%	1.36	2.26	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.36	2.26	-40.0%	1.36	2.26	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.48	2.31	-36.0%	1.48	2.31	--	--

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 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 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, May 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020	May 2019	Percentage Change	May 2020	May 2019	May 2020	May 2019
New England	W	W	W	2.21	5.43	W	W
Connecticut	1.74	2.47	-30.0%	--	--	1.74	2.47
Maine	W	--	W	--	--	W	--
Massachusetts	W	W	W	1.76	2.54	W	W
New Hampshire	W	W	W	8.41	8.01	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.53	2.41	-37.0%	1.70	2.51	1.52	2.40
New Jersey	1.52	2.53	-40.0%	--	--	1.52	2.53
New York	1.66	2.51	-34.0%	1.70	2.51	1.65	2.51
Pennsylvania	1.48	2.33	-36.0%	--	--	1.48	2.33
East North Central	1.82	2.53	-28.0%	1.92	2.65	1.76	2.47
Illinois	W	2.51	W	2.16	2.64	W	2.49
Indiana	1.83	2.62	-30.0%	1.88	2.86	1.78	2.48
Michigan	1.96	2.60	-25.0%	2.20	2.73	1.87	2.57
Ohio	1.68	2.40	-30.0%	1.69	2.43	1.68	2.40
Wisconsin	W	2.59	W	1.93	2.59	W	--
West North Central	W	W	W	2.09	2.46	W	W
Iowa	1.72	2.24	-23.0%	1.72	2.24	--	--
Kansas	2.93	2.45	20.0%	2.93	2.45	--	--
Minnesota	W	W	W	2.47	2.98	W	W
Missouri	W	W	W	2.12	2.17	W	W
Nebraska	3.44	2.68	28.0%	3.44	2.68	--	--
North Dakota	2.80	3.70	-24.0%	2.80	3.70	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.70	3.43	-21.0%	2.83	3.50	1.88	2.84
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.11	3.66	W	W
Georgia	W	W	W	2.09	2.90	W	W
Maryland	2.16	2.90	-26.0%	3.24	3.09	2.02	2.85
North Carolina	W	W	W	3.39	3.78	W	W
South Carolina	2.55	3.17	-20.0%	2.55	3.17	--	--
Virginia	1.99	3.13	-36.0%	2.12	3.23	1.62	2.69
West Virginia	W	W	W	1.92	2.74	W	W
East South Central	2.16	2.85	-24.0%	2.19	2.86	2.01	2.80
Alabama	W	W	W	2.26	2.87	W	W
Kentucky	W	W	W	2.57	3.27	W	W
Mississippi	W	W	W	2.03	2.76	W	W
Tennessee	2.41	2.82	-15.0%	2.41	2.82	--	--
West South Central	1.93	2.46	-22.0%	1.98	2.40	1.90	2.50
Arkansas	W	W	W	1.97	2.62	W	W
Louisiana	W	W	W	2.06	2.73	W	W
Oklahoma	W	W	W	2.01	2.56	W	W
Texas	1.90	2.38	-20.0%	1.88	1.93	1.91	2.51
Mountain	2.26	1.93	17.0%	2.27	1.90	2.12	2.20
Arizona	W	W	W	2.20	1.18	W	W
Colorado	W	W	W	2.88	3.10	W	W
Idaho	5.03	24.46	-79.0%	5.03	24.46	--	--
Montana	1.60	1.54	3.9%	1.60	1.54	--	--
Nevada	2.24	2.57	-13.0%	2.24	2.57	--	--
New Mexico	1.73	0.48	260.0%	1.73	0.48	--	--
Utah	2.04	2.24	-8.9%	2.04	2.24	--	--
Wyoming	W	W	W	1.47	2.30	W	W
Pacific Contiguous	2.41	2.80	-14.0%	2.66	3.09	2.20	2.58
California	W	2.81	W	2.76	3.05	W	2.63
Oregon	W	W	W	1.59	3.01	W	W
Washington	W	W	W	2.35	3.78	W	W
Pacific Noncontiguous	7.86	7.87	-0.1%	7.86	7.87	--	--
Alaska	7.86	7.87	-0.1%	7.86	7.87	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.18	2.77	-21.0%	2.43	2.94	1.80	2.51

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 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) May 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2020 YTD	May 2019 YTD	Percentage Change	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	W	4.90	W	3.54	7.73	W	4.90
Connecticut	2.56	4.29	-40.0%	--	--	2.56	4.29
Maine	W	W	W	--	--	W	W
Massachusetts	4.56	6.33	-28.0%	1.76	6.89	4.57	6.33
New Hampshire	W	W	W	10.53	9.65	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.92	3.24	-41.0%	2.82	4.41	1.84	3.14
New Jersey	2.05	3.40	-40.0%	--	--	2.05	3.40
New York	2.28	3.90	-42.0%	2.82	4.41	2.06	3.68
Pennsylvania	1.72	2.85	-40.0%	--	--	1.72	2.85
East North Central	1.92	2.92	-34.0%	2.08	3.09	1.82	2.83
Illinois	W	3.07	W	1.91	3.15	W	3.07
Indiana	1.95	2.94	-34.0%	2.07	3.08	1.86	2.85
Michigan	1.96	2.95	-34.0%	2.11	3.13	1.91	2.89
Ohio	1.76	2.77	-36.0%	1.76	2.88	1.76	2.75
Wisconsin	W	3.18	W	2.23	3.18	W	--
West North Central	W	W	W	2.13	3.08	W	W
Iowa	1.84	2.83	-35.0%	1.84	2.83	--	--
Kansas	2.43	3.46	-30.0%	2.43	3.46	--	--
Minnesota	W	W	W	2.38	3.41	W	W
Missouri	W	W	W	1.92	2.76	W	W
Nebraska	4.73	3.30	43.0%	4.73	3.30	--	--
North Dakota	2.61	4.24	-38.0%	2.61	4.24	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.86	3.89	-26.0%	2.99	3.99	2.02	3.17
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.10	4.13	W	W
Georgia	W	W	W	2.28	3.32	W	W
Maryland	2.33	W	W	2.49	4.03	2.28	W
North Carolina	W	W	W	3.42	4.10	W	W
South Carolina	2.67	3.48	-23.0%	2.67	3.48	--	--
Virginia	2.69	3.95	-32.0%	2.99	4.23	1.72	3.02
West Virginia	W	2.76	W	1.96	3.09	W	2.63
East South Central	2.33	3.16	-26.0%	2.37	3.21	2.17	3.04
Alabama	W	W	W	2.38	3.19	W	W
Kentucky	W	W	W	3.07	3.70	W	W
Mississippi	W	W	W	2.19	3.08	W	W
Tennessee	2.43	3.14	-23.0%	2.43	3.14	--	--
West South Central	1.88	2.78	-32.0%	1.91	2.80	1.86	2.76
Arkansas	W	W	W	1.99	2.90	W	W
Louisiana	W	W	W	2.06	2.99	W	W
Oklahoma	W	W	W	1.93	2.97	W	W
Texas	1.83	2.70	-32.0%	1.73	2.44	1.86	2.77
Mountain	2.25	W	W	2.22	3.02	2.52	W
Arizona	W	W	W	1.99	2.16	W	W
Colorado	W	W	W	2.68	3.48	W	W
Idaho	2.34	8.17	-71.0%	2.34	8.17	--	--
Montana	1.51	2.05	-26.0%	1.51	2.05	--	--
Nevada	2.57	3.83	-33.0%	2.57	3.83	--	--
New Mexico	1.14	1.32	-14.0%	1.14	1.32	--	--
Utah	2.46	3.86	-36.0%	2.46	3.86	--	--
Wyoming	W	W	W	1.85	3.01	W	W
Pacific Contiguous	2.64	4.56	-42.0%	2.78	4.79	2.51	4.35
California	2.75	4.65	-41.0%	3.02	5.15	2.52	4.25
Oregon	W	W	W	1.94	3.25	W	W
Washington	W	W	W	2.77	5.22	W	W
Pacific Noncontiguous	7.87	7.76	1.4%	7.87	7.76	--	--
Alaska	7.87	7.76	1.4%	7.87	7.76	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.32	3.38	-31.0%	2.54	3.53	2.00	3.17

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, May 2020

	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	19	2.70	7.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.60	5.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	16	3.06	7.6	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	87	2.11	8.3	0	--	--	0	--	--
New Jersey	35	1.35	8.4	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	52	2.62	8.3	0	--	--	0	--	--
East North Central	3,195	3.09	11.2	2,661	0.23	4.6	0	--	--
Illinois	697	3.50	22.2	1,079	0.21	4.5	0	--	--
Indiana	1,370	2.76	9.2	106	0.26	4.6	0	--	--
Michigan	133	1.80	7.1	575	0.23	4.7	0	--	--
Ohio	981	3.51	8.7	16	0.46	4.8	0	--	--
Wisconsin	16	1.51	7.1	885	0.24	4.7	0	--	--
West North Central	26	2.67	10.2	4,990	0.27	4.8	1,581	0.77	9.4
Iowa	16	2.70	9.5	974	0.26	4.7	0	--	--
Kansas	10	2.63	11.3	643	0.32	4.8	0	--	--
Minnesota	0	--	--	353	0.38	6.5	0	--	--
Missouri	0	--	--	1,994	0.26	4.7	0	--	--
Nebraska	0	--	--	997	0.23	4.5	0	--	--
North Dakota	0	--	--	0	--	--	1,581	0.77	9.4
South Dakota	0	--	--	28	0.33	5.1	0	--	--
South Atlantic	2,425	2.44	9.4	207	0.30	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	451	2.58	8.3	0	--	--	0	--	--
Georgia	132	2.41	8.4	207	0.30	4.8	0	--	--
Maryland	72	2.13	13.5	0	--	--	0	--	--
North Carolina	261	1.77	8.7	0	--	--	0	--	--
South Carolina	312	1.62	9.2	0	--	--	0	--	--
Virginia	25	0.78	21.7	0	--	--	0	--	--
West Virginia	1,171	2.81	9.6	0	--	--	0	--	--
East South Central	1,519	2.72	9.4	784	0.26	5.2	295	0.55	14.6
Alabama	147	0.58	6.9	641	0.26	5.2	0	--	--
Kentucky	1,125	3.02	10.0	80	0.28	5.5	0	--	--
Mississippi	0	--	--	63	0.29	4.9	295	0.55	14.6
Tennessee	247	2.50	8.2	0	--	--	0	--	--
West South Central	8	0.51	17.8	4,483	0.29	5.1	1,558	0.93	17.3
Arkansas	5	0.52	10.5	700	0.24	5.1	0	--	--
Louisiana	0	--	--	244	0.26	4.5	54	0.57	14.5
Oklahoma	3	0.46	59.0	324	0.20	4.4	0	--	--
Texas	0	--	--	3,215	0.32	5.2	1,504	0.95	17.4
Mountain	1,425	0.58	13.2	3,109	0.47	7.7	20	0.52	10.0
Arizona	0	--	--	380	0.61	9.8	0	--	--
Colorado	122	0.47	10.8	782	0.33	5.5	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	172	0.74	9.5	20	0.52	10.0
Nevada	110	0.43	9.7	61	0.26	4.9	0	--	--
New Mexico	227	0.86	24.0	200	0.80	20.4	0	--	--
Utah	967	0.55	11.8	53	1.04	9.3	0	--	--
Wyoming	0	--	--	1,460	0.41	6.4	0	--	--
Pacific Contiguous	43	0.43	9.0	148	0.45	8.5	0	--	--
California	43	0.43	9.0	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	148	0.45	8.5	0	--	--
Pacific Noncontiguous	0	--	--	61	0.19	5.3	21	0.17	10.3
Alaska	0	--	--	0	--	--	21	0.17	10.3
Hawaii	0	--	--	61	0.19	5.3	0	--	--
U.S. Total	8,748	2.42	10.6	16,442	0.31	5.5	3,475	0.82	13.4

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:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2019 and 2020 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, May 2020

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	16	3.06	7.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	16	3.06	7.6	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	1,462	2.72	9.1	1,877	0.23	4.7	0	--	--
Illinois	54	2.79	11.4	310	0.20	4.6	0	--	--
Indiana	1,159	2.67	9.3	106	0.26	4.6	0	--	--
Michigan	94	2.10	7.4	575	0.23	4.7	0	--	--
Ohio	140	3.61	8.7	0	--	--	0	--	--
Wisconsin	16	1.51	7.1	885	0.24	4.7	0	--	--
West North Central	10	2.63	11.3	4,778	0.27	4.8	1,581	0.77	9.4
Iowa	0	--	--	827	0.26	4.8	0	--	--
Kansas	10	2.63	11.3	643	0.32	4.8	0	--	--
Minnesota	0	--	--	353	0.38	6.5	0	--	--
Missouri	0	--	--	1,994	0.26	4.7	0	--	--
Nebraska	0	--	--	933	0.23	4.5	0	--	--
North Dakota	0	--	--	0	--	--	1,581	0.77	9.4
South Dakota	0	--	--	28	0.33	5.1	0	--	--
South Atlantic	2,240	2.49	9.3	207	0.30	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	451	2.58	8.3	0	--	--	0	--	--
Georgia	122	2.54	8.4	207	0.30	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	242	1.86	8.9	0	--	--	0	--	--
South Carolina	295	1.65	9.2	0	--	--	0	--	--
Virginia	16	0.80	35.5	0	--	--	0	--	--
West Virginia	1,114	2.82	9.6	0	--	--	0	--	--
East South Central	1,483	2.76	9.5	784	0.26	5.2	0	--	--
Alabama	147	0.58	6.9	641	0.26	5.2	0	--	--
Kentucky	1,125	3.02	10.0	80	0.28	5.5	0	--	--
Mississippi	0	--	--	63	0.29	4.9	0	--	--
Tennessee	211	2.80	8.6	0	--	--	0	--	--
West South Central	3	0.46	59.0	2,071	0.25	4.9	334	1.76	24.7
Arkansas	0	--	--	486	0.23	4.7	0	--	--
Louisiana	0	--	--	162	0.23	4.5	54	0.57	14.5
Oklahoma	3	0.46	59.0	324	0.20	4.4	0	--	--
Texas	0	--	--	1,100	0.28	5.2	281	2.05	27.2
Mountain	1,425	0.58	13.2	2,832	0.46	7.7	20	0.52	10.0
Arizona	0	--	--	380	0.61	9.8	0	--	--
Colorado	122	0.47	10.8	782	0.33	5.5	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	20	0.52	10.0
Nevada	110	0.43	9.7	0	--	--	0	--	--
New Mexico	227	0.86	24.0	200	0.80	20.4	0	--	--
Utah	967	0.55	11.8	53	1.04	9.3	0	--	--
Wyoming	0	--	--	1,416	0.42	6.4	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	21	0.17	10.3
Alaska	0	--	--	0	--	--	21	0.17	10.3
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	6,640	2.22	10.1	12,549	0.30	5.5	1,956	0.90	11.7

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:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2019 and 2020 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, May 2020

	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	3	0.60	5.4	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.60	5.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	76	2.05	8.3	0	--	--	0	--	--
New Jersey	35	1.35	8.4	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	41	2.64	8.2	0	--	--	0	--	--
East North Central	1,649	3.42	13.3	748	0.22	4.3	0	--	--
Illinois	559	3.59	26.1	732	0.22	4.3	0	--	--
Indiana	211	3.25	9.1	0	--	--	0	--	--
Michigan	39	1.03	6.3	0	--	--	0	--	--
Ohio	840	3.49	8.7	16	0.46	4.8	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	149	2.13	10.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	72	2.13	13.5	0	--	--	0	--	--
North Carolina	2	0.69	5.8	0	--	--	0	--	--
South Carolina	17	1.13	9.5	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	57	2.50	8.3	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	295	0.55	14.6
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	295	0.55	14.6
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	2,412	0.33	5.3	1,223	0.75	15.7
Arkansas	0	--	--	215	0.28	5.9	0	--	--
Louisiana	0	--	--	82	0.31	4.6	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	2,115	0.34	5.2	1,223	0.75	15.7
Mountain	0	--	--	277	0.57	7.8	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	172	0.74	9.5	0	--	--
Nevada	0	--	--	61	0.26	4.9	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	44	0.36	5.4	0	--	--
Pacific Contiguous	0	--	--	148	0.45	8.5	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	148	0.45	8.5	0	--	--
Pacific Noncontiguous	0	--	--	61	0.19	5.3	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	61	0.19	5.3	0	--	--
U.S. Total	1,877	3.24	12.8	3,644	0.33	5.4	1,519	0.72	15.5

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 2019 and 2020 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, May 2020

	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 2019 and 2020 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, May 2020

	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	2.54	8.3	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.54	8.3	0	--	--	0	--	--
East North Central	84	3.50	8.8	37	0.22	5.7	0	--	--
Illinois	84	3.50	8.8	37	0.22	5.7	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	16	2.70	9.5	211	0.25	4.0	0	--	--
Iowa	16	2.70	9.5	148	0.26	3.8	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	37	0.77	7.5	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	10	0.80	9.0	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	17	0.77	7.0	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	9	0.75	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	36	0.95	6.5	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	36	0.95	6.5	0	--	--	0	--	--
West South Central	5	0.52	10.5	0	--	--	0	--	--
Arkansas	5	0.52	10.5	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	43	0.43	9.0	0	--	--	0	--	--
California	43	0.43	9.0	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	232	1.86	8.3	248	0.24	4.3	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 2019 and 2020 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."

Chapter 5

Sales to Ultimate Consumers, Revenue and Average Price of Electricity to Ultimate Consumers

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - May 2020 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	1,378,648	1,352,888	984,298	7,523	3,723,356
2018	1,469,093	1,381,755	1,000,673	7,665	3,859,185
2019	1,435,147	1,354,545	952,149	7,697	3,749,538
Year 2018					
January	148,917	114,925	79,890	745	344,478
February	113,751	102,685	75,661	634	292,732
March	107,218	108,108	81,053	620	296,999
April	95,454	103,331	79,083	599	278,468
May	103,848	113,175	85,638	587	303,248
June	129,913	122,011	85,536	623	338,083
July	153,566	131,522	89,301	634	375,023
August	153,496	134,848	92,106	680	381,131
Sept	128,910	122,033	85,679	640	337,263
October	107,049	116,133	85,301	631	309,114
November	103,790	104,983	81,118	616	290,507
December	123,180	107,998	80,306	655	312,140
Year 2019					
January	133,011	111,433	78,390	673	323,507
February	116,249	101,547	72,568	702	291,066
March	112,140	106,889	77,198	689	296,916
April	89,864	101,960	76,413	614	268,851
May	99,810	110,889	80,657	611	291,967
June	119,519	115,338	80,618	612	316,087
July	153,141	130,429	86,057	646	370,272
August	149,549	130,101	86,345	657	366,651
Sept	131,123	121,318	81,767	681	334,890
October	107,636	114,372	79,939	546	302,493
November	102,167	102,810	75,869	618	281,464
December	120,938	107,459	76,327	650	305,373
Year 2020					
January	123,731	107,715	77,384	714	309,544
February	111,963	102,038	75,626	621	290,248
March	103,973	102,933	77,509	604	285,019
April	97,440	90,587	69,480	451	257,958
May	105,345	93,332	71,195	452	270,325
Year to Date					
2018	569,189	542,226	401,325	3,186	1,515,925
2019	551,074	532,718	385,226	3,289	1,472,307
2020	542,452	496,606	371,194	2,842	1,413,093
Rolling 12 Months Ending in May					
2019	1,450,979	1,372,247	984,574	7,768	3,815,567
2020	1,426,525	1,318,433	938,116	7,251	3,690,324

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 2018 and prior years are final. Values for 2020 and 2019 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, 2010 - May 2020 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	177,661	144,242	67,691	728	390,322
2018	189,033	147,425	69,218	744	406,420
2019	187,102	144,452	65,033	749	397,337
Year 2018					
January	18,193	12,053	5,543	70	35,859
February	14,364	10,936	5,128	62	30,490
March	13,905	11,365	5,373	58	30,701
April	12,290	10,806	5,194	57	28,347
May	13,625	11,890	5,819	55	31,388
June	16,922	13,223	6,136	64	36,344
July	20,156	14,466	6,540	64	41,226
August	20,351	14,874	6,673	65	41,963
Sept	16,775	13,085	6,038	64	35,962
October	13,751	12,506	5,864	62	32,182
November	13,389	11,069	5,557	60	30,074
December	15,311	11,155	5,353	64	31,883
Year 2019					
January	16,603	11,479	5,155	66	33,303
February	14,803	10,701	4,852	72	30,428
March	14,420	11,174	5,191	64	30,849
April	11,939	10,712	4,984	58	27,693
May	13,316	11,658	5,401	58	30,434
June	15,967	12,553	5,569	62	34,151
July	20,346	14,355	6,186	64	40,950
August	19,931	14,327	6,433	64	40,755
Sept	17,288	13,313	5,808	67	36,476
October	13,818	12,285	5,485	53	31,642
November	13,324	10,813	5,106	59	29,302
December	15,348	11,084	4,863	62	31,356
Year 2020					
January	15,824	11,069	4,902	67	31,862
February	14,384	10,572	4,855	58	29,869
March	13,602	10,715	4,961	59	29,337
April	12,939	9,438	4,457	44	26,877
May	13,842	9,746	4,615	42	28,245
Year to Date					
2018	72,378	57,049	27,057	302	156,786
2019	71,081	55,723	25,584	319	152,706
2020	70,590	51,540	23,789	270	146,189
Rolling 12 Months Ending in May					
2019	187,736	146,099	67,745	760	402,340
2020	186,612	140,269	63,239	700	390,820

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 2018 and prior years are final. Values for 2020 and 2019 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, 2010 - May 2020 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	12.89	10.66	6.88	9.68	10.48
2018	12.87	10.67	6.92	9.70	10.53
2019	13.04	10.66	6.83	9.73	10.60
Year 2018					
January	12.22	10.49	6.94	9.39	10.41
February	12.63	10.65	6.78	9.78	10.42
March	12.97	10.51	6.63	9.40	10.34
April	12.88	10.46	6.57	9.47	10.18
May	13.12	10.51	6.79	9.39	10.35
June	13.03	10.84	7.17	10.23	10.75
July	13.13	11.00	7.32	10.05	10.99
August	13.26	11.03	7.25	9.50	11.01
Sept	13.01	10.72	7.05	10.05	10.66
October	12.85	10.77	6.87	9.79	10.41
November	12.90	10.54	6.85	9.70	10.35
December	12.43	10.33	6.67	9.71	10.21
Year 2019					
January	12.48	10.30	6.58	9.86	10.29
February	12.73	10.54	6.69	10.29	10.45
March	12.86	10.45	6.72	9.28	10.39
April	13.29	10.51	6.52	9.48	10.30
May	13.34	10.51	6.70	9.49	10.42
June	13.36	10.88	6.91	10.06	10.80
July	13.29	11.01	7.19	9.88	11.06
August	13.33	11.01	7.45	9.72	11.12
Sept	13.18	10.97	7.10	9.84	10.89
October	12.84	10.74	6.86	9.75	10.46
November	13.04	10.52	6.73	9.56	10.41
December	12.69	10.31	6.37	9.52	10.27
Year 2020					
January	12.79	10.28	6.33	9.35	10.29
February	12.85	10.36	6.42	9.42	10.29
March	13.08	10.41	6.40	9.77	10.29
April	13.28	10.42	6.41	9.69	10.42
May	13.14	10.44	6.48	9.29	10.45
Year to Date					
2018	12.72	10.52	6.74	9.48	10.34
2019	12.90	10.46	6.64	9.69	10.37
2020	13.01	10.38	6.41	9.50	10.35
Rolling 12 Months Ending in May					
2019	12.94	10.65	6.88	9.79	10.54
2020	13.08	10.64	6.74	9.66	10.59

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 2018 and prior years are final. Values for 2020 and 2019 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, May 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	3,390	3,126	3,417	3,960	1,145	1,321	32	45	7,984	8,453
Connecticut	875	814	812	930	204	248	7	16	1,898	2,008
Maine	359	364	250	338	188	271	0	0	797	973
Massachusetts	1,419	1,292	1,658	1,921	461	486	25	27	3,563	3,725
New Hampshire	359	303	285	337	140	158	0	0	784	798
Rhode Island	223	210	279	283	48	51	1	2	551	546
Vermont	156	143	132	151	104	109	0	0	392	402
Middle Atlantic	9,384	8,634	9,615	12,127	5,188	5,763	216	285	24,402	26,809
New Jersey	2,022	1,862	2,386	3,037	532	617	19	24	4,959	5,541
New York	3,562	3,397	4,776	5,713	1,122	1,114	178	212	9,637	10,436
Pennsylvania	3,800	3,375	2,454	3,377	3,534	4,032	18	48	9,807	10,832
East North Central	13,370	11,975	12,386	14,446	12,212	15,452	37	49	38,005	41,922
Illinois	3,251	2,875	3,338	3,868	2,980	3,479	33	45	9,602	10,268
Indiana	2,198	2,080	1,617	1,896	2,857	3,516	1	2	6,674	7,493
Michigan	2,582	2,219	2,625	3,021	1,619	2,454	0	1	6,826	7,694
Ohio	3,689	3,290	3,185	3,797	3,074	4,015	3	3	9,951	11,104
Wisconsin	1,650	1,511	1,621	1,864	1,682	1,988	0	0	4,953	5,363
West North Central	6,923	6,763	6,736	8,065	6,610	7,409	2	4	20,271	22,240
Iowa	928	919	798	929	1,943	1,933	0	0	3,669	3,781
Kansas	876	887	1,014	1,223	792	941	0	0	2,682	3,051
Minnesota	1,556	1,484	1,526	1,795	1,297	1,701	1	2	4,380	4,981
Missouri	2,259	2,217	2,005	2,466	853	986	1	2	5,119	5,671
Nebraska	645	626	627	740	777	873	0	0	2,050	2,239
North Dakota	328	304	428	527	749	755	0	0	1,505	1,586
South Dakota	329	326	338	385	199	220	0	0	866	931
South Atlantic	27,330	28,303	22,648	27,447	10,699	11,997	84	117	60,761	67,864
Delaware	337	306	302	362	149	154	0	0	787	822
District of Columbia	182	181	550	690	15	20	22	29	770	920
Florida	10,593	10,525	7,029	8,407	1,331	1,448	6	8	18,959	20,388
Georgia	4,304	4,680	3,365	4,130	2,304	2,760	10	14	9,983	11,584
Maryland	1,877	1,827	1,929	2,414	273	326	36	48	4,114	4,614
North Carolina	4,024	4,480	3,501	4,237	2,187	2,386	1	2	9,713	11,104
South Carolina	2,166	2,493	1,592	1,937	1,981	2,316	0	0	5,739	6,746
Virginia	3,052	3,149	3,878	4,649	1,342	1,332	10	17	8,282	9,147
West Virginia	795	662	502	622	1,118	1,255	0	0	2,415	2,538
East South Central	8,088	8,213	6,075	7,569	7,112	8,162	0	0	21,275	23,944
Alabama	2,295	2,474	1,576	1,942	2,390	2,805	0	0	6,261	7,220
Kentucky	1,804	1,782	1,331	1,606	2,032	2,353	0	0	5,167	5,740
Mississippi	1,263	1,276	900	1,109	1,246	1,381	0	0	3,410	3,766
Tennessee	2,726	2,682	2,268	2,913	1,443	1,623	0	0	6,437	7,218
West South Central	16,544	15,533	13,966	16,045	14,599	16,088	14	16	45,123	47,682
Arkansas	1,151	1,111	772	919	1,270	1,424	0	0	3,194	3,453
Louisiana	2,240	2,127	1,678	1,954	2,705	2,711	1	1	6,624	6,792
Oklahoma	1,644	1,550	1,384	1,590	1,578	1,771	0	0	4,606	4,911
Texas	11,509	10,746	10,132	11,582	9,046	10,182	13	15	30,700	32,525
Mountain	8,651	6,684	7,481	7,855	6,778	6,963	13	15	22,923	21,518
Arizona	3,470	2,365	2,413	2,313	1,147	1,120	1	1	7,031	5,799
Colorado	1,538	1,357	1,565	1,664	1,312	1,346	8	9	4,422	4,375
Idaho	592	540	457	498	886	793	0	0	1,935	1,831
Montana	367	346	331	378	350	383	0	0	1,049	1,106
Nevada	1,178	822	966	1,026	891	993	0	1	3,034	2,842
New Mexico	575	449	682	752	727	714	0	0	1,984	1,914
Utah	742	616	828	937	773	756	4	4	2,348	2,314
Wyoming	191	190	239	287	691	858	0	0	1,121	1,335
Pacific Contiguous	11,287	10,219	10,628	12,912	6,500	7,098	54	80	28,469	30,309
California	7,423	6,556	7,531	9,284	3,755	4,077	44	67	18,753	19,984
Oregon	1,377	1,269	1,169	1,337	990	978	2	2	3,538	3,587
Washington	2,487	2,394	1,928	2,291	1,756	2,043	7	11	6,178	6,738
Pacific Noncontiguous	379	360	382	463	350	405	0	0	1,111	1,227
Alaska	151	146	185	211	97	104	0	0	433	460
Hawaii	228	214	196	252	253	301	0	0	678	767
U.S. Total	105,345	99,810	93,332	110,889	71,195	80,657	452	611	270,325	291,967

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 May 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	18,597	18,727	18,869	20,628	5,959	6,368	207	237	43,631	45,960
Connecticut	4,914	4,992	4,331	4,792	1,108	1,207	58	77	10,410	11,068
Maine	2,067	2,119	1,555	1,802	1,022	1,195	0	0	4,645	5,116
Massachusetts	7,700	7,686	9,380	10,069	2,291	2,354	139	149	19,510	20,258
New Hampshire	1,908	1,877	1,550	1,728	733	769	0	0	4,191	4,373
Rhode Island	1,128	1,159	1,322	1,440	256	279	10	11	2,716	2,889
Vermont	881	895	730	797	547	565	0	0	2,159	2,257
Middle Atlantic	51,088	52,544	55,517	62,255	28,468	29,126	1,335	1,649	136,408	145,574
New Jersey	10,066	10,144	13,482	15,015	2,565	2,776	112	128	26,226	28,062
New York	19,197	19,525	27,799	29,790	6,393	6,615	1,056	1,216	54,444	57,147
Pennsylvania	21,825	22,876	14,236	17,450	19,510	19,735	167	304	55,737	60,365
East North Central	72,659	73,847	67,033	72,557	68,064	74,998	283	302	208,039	221,705
Illinois	16,960	17,286	18,418	19,948	15,968	16,965	255	271	51,601	54,469
Indiana	12,670	13,184	8,619	9,411	15,538	17,011	8	9	36,835	39,615
Michigan	13,460	13,271	13,963	15,225	9,897	11,927	2	3	37,322	40,426
Ohio	20,539	20,985	17,134	18,490	17,624	19,398	17	19	55,313	58,892
Wisconsin	9,031	9,121	8,899	9,484	9,039	9,698	0	1	26,968	28,302
West North Central	41,710	43,312	38,138	41,262	34,999	35,767	18	22	114,865	120,363
Iowa	5,806	6,027	4,659	5,003	9,578	9,505	0	0	20,043	20,534
Kansas	4,751	4,962	5,517	6,047	4,107	4,452	0	0	14,375	15,462
Minnesota	9,141	9,321	8,559	9,191	7,765	8,410	8	11	25,473	26,933
Missouri	13,438	14,016	11,099	12,202	4,367	4,582	10	11	28,914	30,811
Nebraska	4,117	4,335	3,574	3,846	4,050	4,001	0	0	11,742	12,182
North Dakota	2,308	2,395	2,785	2,896	4,046	3,730	0	0	9,138	9,022
South Dakota	2,148	2,256	1,946	2,077	1,086	1,087	0	0	5,180	5,420
South Atlantic	136,212	139,784	115,504	123,453	53,578	56,216	523	557	305,817	320,010
Delaware	1,888	1,994	1,606	1,722	746	744	0	0	4,240	4,460
District of Columbia	923	995	2,812	3,174	91	81	131	130	3,956	4,380
Florida	46,544	45,232	35,251	37,022	6,590	6,583	32	36	88,418	88,873
Georgia	21,428	21,934	16,965	18,291	11,914	12,917	62	69	50,369	53,211
Maryland	10,490	11,212	10,375	11,493	1,355	1,517	213	230	22,434	24,453
North Carolina	22,089	23,187	17,855	19,075	10,252	10,754	7	7	50,202	53,023
South Carolina	11,364	11,669	7,842	8,374	10,133	10,997	0	0	29,339	31,040
Virginia	16,894	18,737	20,032	21,230	6,583	6,596	79	84	43,587	46,647
West Virginia	4,593	4,825	2,767	3,072	5,913	6,027	0	0	13,273	13,924
East South Central	44,692	46,126	32,668	35,351	37,387	39,397	0	0	114,747	120,875
Alabama	11,687	12,048	7,969	8,632	12,707	13,491	0	0	32,363	34,171
Kentucky	10,200	10,644	7,041	7,625	10,744	11,416	0	0	27,985	29,685
Mississippi	6,755	6,897	4,784	5,115	6,598	6,736	0	0	18,137	18,748
Tennessee	16,050	16,537	12,875	13,979	7,337	7,755	0	0	36,262	38,271
West South Central	79,447	80,057	71,570	73,375	75,844	76,175	74	78	226,935	229,686
Arkansas	6,915	7,193	4,147	4,485	6,673	6,901	0	0	17,734	18,579
Louisiana	11,093	11,020	8,763	9,247	14,197	14,098	4	5	34,057	34,370
Oklahoma	8,496	8,778	6,788	7,578	8,174	8,008	0	0	23,458	24,365
Texas	52,943	53,066	51,872	52,065	46,801	47,169	70	73	151,686	152,372
Mountain	38,076	36,202	36,544	38,063	33,134	32,731	70	78	107,824	107,074
Arizona	12,301	11,170	10,605	10,908	5,466	5,395	5	4	28,377	27,477
Colorado	7,619	7,401	7,833	8,219	6,522	6,356	42	49	22,018	22,025
Idaho	3,718	3,694	2,495	2,582	3,094	2,919	0	0	9,308	9,196
Montana	2,367	2,457	1,955	2,095	1,839	1,896	0	0	6,162	6,448
Nevada	4,432	4,118	4,534	4,544	4,755	4,799	2	3	13,724	13,464
New Mexico	2,684	2,560	3,393	3,545	3,716	3,427	0	0	9,793	9,533
Utah	3,673	3,505	4,296	4,646	3,810	3,627	21	21	11,800	11,799
Wyoming	1,282	1,297	1,431	1,524	3,930	4,312	0	0	6,643	7,133
Pacific Contiguous	57,955	58,590	58,609	63,484	31,905	32,571	332	366	148,801	155,011
California	32,743	32,949	40,797	44,376	17,742	17,813	277	317	91,559	95,454
Oregon	8,505	8,626	6,446	6,770	4,819	4,770	11	12	19,780	20,178
Washington	16,707	17,015	11,367	12,338	9,344	9,988	44	37	37,462	39,379
Pacific Noncontiguous	2,016	1,885	2,154	2,288	1,857	1,876	0	0	6,026	6,049
Alaska	942	877	1,109	1,133	526	495	0	0	2,578	2,505
Hawaii	1,073	1,009	1,045	1,155	1,331	1,381	0	0	3,448	3,544
U.S. Total	542,452	551,074	496,606	532,718	371,194	385,226	2,842	3,289	1,413,093	1,472,307

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, May 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	733	676	529	637	147	165	2	4	1,412	1,482
Connecticut	210	190	137	160	29	33	1	2	377	385
Maine	60	66	32	43	17	25	0	0	109	134
Massachusetts	316	288	252	309	64	68	1	1	633	667
New Hampshire	69	63	43	53	18	20	0	0	131	136
Rhode Island	47	44	43	47	8	8	0	0	98	100
Vermont	31	25	22	24	11	12	0	0	64	61
Middle Atlantic	1,508	1,382	1,182	1,452	329	384	23	32	3,042	3,251
New Jersey	316	313	303	392	52	65	2	2	672	772
New York	660	589	663	764	60	64	20	26	1,402	1,443
Pennsylvania	532	481	217	296	217	255	2	4	967	1,035
East North Central	1,864	1,685	1,272	1,484	822	1,049	2	4	3,959	4,221
Illinois	458	407	308	354	190	216	2	3	959	980
Indiana	278	272	173	206	197	256	0	0	647	734
Michigan	421	349	308	344	131	173	0	0	860	867
Ohio	454	425	303	373	179	255	0	0	937	1,054
Wisconsin	251	232	180	206	125	149	0	0	556	587
West North Central	893	873	682	807	473	531	0	0	2,049	2,212
Iowa	133	129	89	97	124	117	0	0	347	343
Kansas	121	120	109	130	56	67	0	0	286	318
Minnesota	213	206	163	195	104	136	0	0	480	536
Missouri	274	271	190	235	56	68	0	0	521	573
Nebraska	76	73	59	66	58	63	0	0	193	202
North Dakota	37	35	40	48	59	64	0	0	137	146
South Dakota	40	40	31	36	15	17	0	0	86	93
South Atlantic	3,087	3,396	1,965	2,554	615	754	7	10	5,674	6,714
Delaware	46	43	31	35	10	11	0	0	86	90
District of Columbia	23	25	68	86	1	2	2	3	94	116
Florida	1,041	1,234	529	790	73	111	0	1	1,643	2,136
Georgia	508	550	334	401	118	160	1	1	962	1,112
Maryland	248	246	193	249	21	25	3	4	465	524
North Carolina	472	517	298	359	125	140	0	0	895	1,016
South Carolina	276	309	165	192	112	135	0	0	553	635
Virginia	377	392	300	386	85	95	1	1	762	875
West Virginia	96	79	48	57	69	75	0	0	213	211
East South Central	940	965	661	805	386	474	0	0	1,987	2,245
Alabama	291	319	181	226	139	177	0	0	611	723
Kentucky	201	199	142	163	105	128	0	0	448	490
Mississippi	149	152	97	117	67	82	0	0	313	351
Tennessee	300	295	240	299	75	87	0	0	615	681
West South Central	1,879	1,802	1,088	1,268	697	854	1	1	3,664	3,925
Arkansas	121	113	67	80	69	83	0	0	257	276
Louisiana	216	218	145	177	131	154	0	0	493	549
Oklahoma	162	161	100	120	66	85	0	0	328	366
Texas	1,379	1,310	776	891	430	532	1	1	2,586	2,734
Mountain	1,043	816	730	758	414	424	1	1	2,188	1,999
Arizona	451	313	264	252	72	71	0	0	787	637
Colorado	185	163	159	167	95	96	1	1	439	427
Idaho	59	56	35	39	55	48	0	0	148	143
Montana	43	40	36	40	15	16	0	0	94	97
Nevada	135	101	70	77	42	52	0	0	247	230
New Mexico	70	55	67	72	39	39	0	0	177	165
Utah	78	65	74	83	46	43	0	0	200	191
Wyoming	22	22	24	29	49	58	0	0	96	109
Pacific Contiguous	1,790	1,616	1,541	1,773	655	669	5	7	3,991	4,065
California	1,387	1,239	1,257	1,453	512	520	4	5	3,161	3,217
Oregon	157	143	110	120	60	58	0	0	327	321
Washington	245	235	175	200	82	91	1	1	503	527
Pacific Noncontiguous	106	105	96	119	77	97	0	0	279	320
Alaska	35	33	38	42	15	17	0	0	88	93
Hawaii	71	72	58	76	62	80	0	0	191	228
U.S. Total	13,842	13,316	9,746	11,658	4,615	5,401	42	58	28,245	30,434

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 May 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	4,051	4,046	3,034	3,420	760	839	21	25	7,867	8,330
Connecticut	1,140	1,127	749	838	153	169	9	12	2,051	2,146
Maine	346	377	197	238	92	117	0	0	636	731
Massachusetts	1,760	1,747	1,512	1,681	319	344	11	11	3,602	3,781
New Hampshire	373	381	241	282	95	104	0	0	709	766
Rhode Island	259	263	217	255	40	46	2	2	518	567
Vermont	172	152	120	127	60	61	0	0	351	339
Middle Atlantic	7,964	8,114	6,565	7,278	1,804	1,945	145	182	16,479	17,520
New Jersey	1,586	1,642	1,626	1,838	252	284	10	11	3,474	3,775
New York	3,376	3,380	3,708	3,905	340	372	123	148	7,548	7,805
Pennsylvania	3,002	3,092	1,231	1,536	1,212	1,289	12	23	5,457	5,940
East North Central	9,713	9,787	6,751	7,402	4,479	5,226	19	22	20,963	22,436
Illinois	2,241	2,248	1,650	1,796	1,026	1,122	17	19	4,934	5,185
Indiana	1,545	1,628	933	1,019	1,051	1,260	1	1	3,530	3,908
Michigan	2,157	2,026	1,609	1,718	730	866	0	0	4,496	4,609
Ohio	2,439	2,565	1,593	1,834	1,001	1,243	1	1	5,034	5,644
Wisconsin	1,332	1,320	966	1,034	670	735	0	0	2,967	3,089
West North Central	4,770	4,875	3,558	3,816	2,450	2,535	1	2	10,779	11,228
Iowa	725	732	470	480	588	573	0	0	1,784	1,785
Kansas	600	614	564	601	290	325	0	0	1,454	1,540
Minnesota	1,184	1,214	866	945	589	654	1	1	2,640	2,814
Missouri	1,362	1,392	919	1,012	265	287	1	1	2,547	2,691
Nebraska	430	442	316	334	302	300	0	0	1,048	1,077
North Dakota	226	233	243	254	332	313	0	0	801	800
South Dakota	242	247	180	190	83	83	0	0	506	521
South Atlantic	15,997	16,575	10,573	11,626	3,194	3,487	41	45	29,805	31,732
Delaware	242	253	155	174	52	57	0	0	449	484
District of Columbia	117	134	339	393	7	7	13	14	476	547
Florida	5,250	5,362	3,170	3,537	458	505	2	3	8,880	9,407
Georgia	2,422	2,455	1,654	1,767	610	708	3	3	4,688	4,932
Maryland	1,402	1,509	1,038	1,197	105	119	16	17	2,561	2,843
North Carolina	2,547	2,672	1,552	1,664	606	642	1	1	4,707	4,978
South Carolina	1,431	1,459	801	850	571	631	0	0	2,804	2,941
Virginia	2,059	2,213	1,604	1,765	431	458	7	7	4,101	4,443
West Virginia	526	518	259	279	354	359	0	0	1,139	1,156
East South Central	5,081	5,224	3,522	3,780	2,035	2,254	0	0	10,638	11,259
Alabama	1,472	1,522	919	998	711	794	0	0	3,102	3,315
Kentucky	1,100	1,119	726	755	549	611	0	0	2,375	2,486
Mississippi	775	790	511	547	376	402	0	0	1,663	1,739
Tennessee	1,734	1,793	1,366	1,480	398	446	0	0	3,498	3,719
West South Central	8,896	8,910	5,633	5,922	3,781	4,001	5	5	18,314	18,838
Arkansas	702	692	351	388	355	400	0	0	1,408	1,479
Louisiana	1,018	1,035	759	824	657	738	0	0	2,435	2,598
Oklahoma	818	857	491	561	344	389	0	0	1,653	1,807
Texas	6,357	6,325	4,031	4,149	2,425	2,474	5	5	12,818	12,954
Mountain	4,431	4,243	3,369	3,545	1,925	1,994	6	7	9,732	9,790
Arizona	1,521	1,407	1,051	1,109	304	331	0	0	2,877	2,847
Colorado	912	890	768	812	456	456	4	4	2,139	2,163
Idaho	360	363	187	198	172	167	0	0	719	728
Montana	268	270	204	215	87	109	0	0	559	593
Nevada	524	499	342	349	226	244	0	0	1,093	1,093
New Mexico	331	317	328	340	198	189	0	0	858	846
Utah	377	358	353	376	215	211	2	2	947	947
Wyoming	139	141	136	146	266	287	0	0	541	574
Pacific Contiguous	9,130	8,774	7,995	8,357	2,928	2,850	30	31	20,083	20,012
California	6,598	6,223	6,403	6,670	2,197	2,067	25	27	15,223	14,987
Oregon	932	934	581	606	287	301	1	1	1,801	1,842
Washington	1,600	1,617	1,011	1,080	444	482	4	3	3,059	3,184
Pacific Noncontiguous	558	533	538	577	434	452	0	0	1,530	1,562
Alaska	211	195	218	225	86	85	0	0	516	505
Hawaii	347	337	320	352	348	367	0	0	1,014	1,057
U.S. Total	70,590	71,081	51,540	55,723	23,789	25,584	270	319	146,189	152,706

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, May 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	21.63	21.63	15.49	16.08	12.86	12.49	6.85	8.06	17.69	17.53
Connecticut	23.96	23.35	16.87	17.21	14.32	13.20	11.04	11.81	19.84	19.16
Maine	16.82	18.14	12.64	12.64	9.02	9.23	--	--	13.67	13.75
Massachusetts	22.27	22.31	15.20	16.11	13.87	13.92	4.73	4.97	17.77	17.89
New Hampshire	19.34	20.72	15.21	15.76	12.91	12.80	--	--	16.69	17.06
Rhode Island	21.20	20.95	15.42	16.66	15.96	15.82	42.45	18.81	17.83	18.25
Vermont	19.75	17.39	16.82	16.13	10.97	10.64	--	--	16.43	15.10
Middle Atlantic	16.07	16.01	12.30	11.97	6.34	6.66	10.67	11.21	12.47	12.12
New Jersey	15.63	16.80	12.69	12.92	9.73	10.53	9.55	8.55	13.56	13.94
New York	18.53	17.34	13.88	13.37	5.33	5.78	10.98	12.36	14.55	13.83
Pennsylvania	13.99	14.24	8.84	8.77	6.15	6.31	8.80	7.48	9.86	9.55
East North Central	13.94	14.07	10.27	10.28	6.73	6.79	6.19	7.39	10.42	10.07
Illinois	14.10	14.14	9.22	9.16	6.39	6.21	5.90	7.21	9.98	9.55
Indiana	12.65	13.06	10.69	10.86	6.88	7.29	10.94	11.15	9.70	9.80
Michigan	16.32	15.74	11.73	11.40	8.06	7.05	11.42	10.60	12.60	11.27
Ohio	12.32	12.93	9.52	9.83	5.83	6.35	6.82	7.46	9.42	9.49
Wisconsin	15.24	15.34	11.10	11.07	7.44	7.47	15.21	14.21	11.24	10.94
West North Central	12.90	12.91	10.12	10.01	7.16	7.17	8.57	8.24	10.11	9.95
Iowa	14.35	14.02	11.18	10.46	6.39	6.05	--	--	9.44	9.07
Kansas	13.75	13.58	10.78	10.65	7.07	7.15	--	--	10.65	10.42
Minnesota	13.71	13.86	10.66	10.85	8.03	7.98	10.73	9.43	10.97	10.77
Missouri	12.12	12.20	9.49	9.51	6.61	6.90	7.22	7.03	10.17	10.11
Nebraska	11.70	11.69	9.36	8.96	7.50	7.17	--	--	9.39	9.02
North Dakota	11.27	11.41	9.45	9.06	7.90	8.45	--	--	9.07	9.22
South Dakota	12.13	12.17	9.24	9.47	7.70	7.77	--	--	9.99	10.02
South Atlantic	11.29	12.00	8.68	9.31	5.75	6.29	8.41	8.16	9.34	9.89
Delaware	13.58	14.00	10.13	9.80	6.85	7.43	--	--	10.98	10.92
District of Columbia	12.77	13.87	12.28	12.47	8.17	8.25	10.31	10.47	12.26	12.59
Florida	9.83	11.73	7.53	9.40	5.48	7.64	5.52	7.79	8.67	10.48
Georgia	11.81	11.75	9.94	9.72	5.14	5.81	5.00	5.12	9.63	9.60
Maryland	13.23	13.49	9.98	10.30	7.71	7.70	8.28	7.63	11.30	11.35
North Carolina	11.72	11.54	8.53	8.46	5.74	5.86	8.33	8.11	9.22	9.15
South Carolina	12.75	12.38	10.34	9.90	5.65	5.83	--	--	9.63	9.42
Virginia	12.36	12.46	7.73	8.29	6.30	7.15	9.86	8.35	9.20	9.56
West Virginia	12.03	11.98	9.51	9.10	6.19	5.96	--	--	8.80	8.30
East South Central	11.62	11.75	10.88	10.64	5.43	5.81	--	--	9.34	9.38
Alabama	12.66	12.90	11.51	11.66	5.80	6.33	--	--	9.75	10.01
Kentucky	11.13	11.18	10.66	10.16	5.17	5.43	--	--	8.67	8.54
Mississippi	11.80	11.94	10.77	10.57	5.41	5.92	--	--	9.19	9.33
Tennessee	10.99	10.99	10.60	10.25	5.19	5.38	--	--	9.55	9.43
West South Central	11.36	11.60	7.79	7.90	4.77	5.31	6.84	6.69	8.12	8.23
Arkansas	10.48	10.19	8.70	8.68	5.46	5.81	11.77	13.38	8.06	7.98
Louisiana	9.66	10.25	8.64	9.08	4.85	5.67	8.28	9.51	7.44	8.09
Oklahoma	9.88	10.42	7.21	7.53	4.19	4.82	--	--	7.13	7.46
Texas	11.98	12.19	7.66	7.70	4.75	5.22	6.77	6.46	8.42	8.41
Mountain	12.05	12.20	9.76	9.64	6.11	6.09	9.03	8.99	9.55	9.29
Arizona	12.99	13.25	10.94	10.87	6.31	6.38	10.24	9.99	11.20	10.98
Colorado	12.06	12.02	10.15	10.05	7.20	7.13	8.00	8.13	9.94	9.76
Idaho	9.90	10.37	7.69	7.81	6.18	6.09	--	--	7.67	7.82
Montana	11.67	11.66	10.85	10.62	4.41	4.22	--	--	8.99	8.73
Nevada	11.42	12.34	7.28	7.45	4.74	5.27	9.39	7.88	8.14	8.10
New Mexico	12.24	12.21	9.89	9.53	5.35	5.45	--	--	8.91	8.63
Utah	10.56	10.50	8.99	8.88	5.99	5.69	10.70	10.59	8.50	8.27
Wyoming	11.52	11.57	10.16	9.92	7.14	6.77	--	--	8.53	8.13
Pacific Contiguous	15.86	15.82	14.50	13.73	10.07	9.42	9.43	8.12	14.02	13.41
California	18.69	18.89	16.69	15.65	13.65	12.76	9.36	7.88	16.85	16.10
Oregon	11.41	11.25	9.39	8.98	6.06	5.94	9.61	9.21	9.24	8.95
Washington	9.87	9.81	9.06	8.74	4.68	4.44	9.86	9.32	8.14	7.82
Pacific Noncontiguous	27.85	29.07	25.11	25.67	22.06	23.99	--	--	25.08	26.11
Alaska	23.17	22.65	20.37	20.12	15.81	16.56	--	--	20.32	20.12
Hawaii	30.94	33.43	29.57	30.32	24.47	26.56	--	--	28.13	29.71
U.S. Total	13.14	13.34	10.44	10.51	6.48	6.70	9.29	9.49	10.45	10.42

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 May 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD	May 2020 YTD	May 2019 YTD
New England	21.78	21.61	16.08	16.58	12.76	13.18	10.31	10.34	18.03	18.13
Connecticut	23.21	22.59	17.29	17.49	13.79	13.99	15.00	15.39	19.70	19.39
Maine	16.76	17.77	12.66	13.18	9.04	9.77	--	--	13.69	14.28
Massachusetts	22.86	22.73	16.11	16.69	13.94	14.59	7.70	7.07	18.46	18.67
New Hampshire	19.56	20.29	15.52	16.31	13.00	13.47	--	--	16.92	17.52
Rhode Island	22.97	22.72	16.40	17.72	15.71	16.56	19.58	19.20	19.07	19.62
Vermont	19.50	16.96	16.39	15.88	10.91	10.72	--	--	16.27	15.02
Middle Atlantic	15.59	15.44	11.83	11.69	6.34	6.68	10.89	11.05	12.08	12.04
New Jersey	15.75	16.18	12.06	12.24	9.83	10.24	8.67	8.65	13.25	13.45
New York	17.59	17.31	13.34	13.11	5.32	5.62	11.68	12.16	13.86	13.66
Pennsylvania	13.75	13.52	8.65	8.80	6.21	6.53	7.41	7.61	9.79	9.84
East North Central	13.37	13.25	10.07	10.20	6.58	6.97	6.87	7.18	10.08	10.12
Illinois	13.21	13.01	8.96	9.01	6.43	6.61	6.75	7.01	9.56	9.52
Indiana	12.19	12.35	10.82	10.83	6.77	7.40	10.53	11.04	9.58	9.86
Michigan	16.03	15.26	11.52	11.28	7.38	7.26	10.99	10.35	12.05	11.40
Ohio	11.87	12.22	9.30	9.92	5.68	6.41	6.24	7.12	9.10	9.58
Wisconsin	14.75	14.47	10.85	10.90	7.41	7.58	14.30	13.69	11.00	10.92
West North Central	11.44	11.25	9.33	9.25	7.00	7.09	7.83	8.09	9.38	9.33
Iowa	12.49	12.15	10.10	9.59	6.14	6.03	--	--	8.90	8.69
Kansas	12.63	12.37	10.22	9.94	7.05	7.30	--	--	10.11	9.96
Minnesota	12.95	13.03	10.12	10.28	7.58	7.77	9.32	9.64	10.36	10.45
Missouri	10.14	9.93	8.28	8.29	6.06	6.26	6.54	6.45	8.81	8.73
Nebraska	10.46	10.20	8.83	8.69	7.46	7.51	--	--	8.93	8.84
North Dakota	9.80	9.71	8.71	8.76	8.22	8.40	--	--	8.77	8.86
South Dakota	11.26	10.95	9.27	9.17	7.68	7.67	--	--	9.76	9.61
South Atlantic	11.74	11.86	9.15	9.42	5.96	6.20	7.83	8.02	9.75	9.92
Delaware	12.81	12.69	9.66	10.09	6.97	7.72	--	--	10.59	10.86
District of Columbia	12.66	13.51	12.06	12.37	8.16	8.41	9.59	10.42	12.03	12.50
Florida	11.28	11.86	8.99	9.55	6.95	7.67	7.64	8.25	10.04	10.59
Georgia	11.30	11.19	9.75	9.66	5.12	5.48	4.56	4.81	9.31	9.27
Maryland	13.37	13.46	10.01	10.41	7.73	7.87	7.45	7.53	11.42	11.62
North Carolina	11.53	11.52	8.69	8.72	5.91	5.97	7.93	8.26	9.38	9.39
South Carolina	12.59	12.50	10.22	10.15	5.64	5.74	--	--	9.56	9.47
Virginia	12.19	11.81	8.01	8.32	6.54	6.95	8.54	8.13	9.41	9.53
West Virginia	11.45	10.73	9.35	9.08	5.99	5.96	--	--	8.58	8.30
East South Central	11.37	11.33	10.78	10.69	5.44	5.72	--	--	9.27	9.31
Alabama	12.60	12.63	11.53	11.57	5.60	5.89	--	--	9.58	9.70
Kentucky	10.78	10.52	10.31	9.90	5.11	5.36	--	--	8.49	8.37
Mississippi	11.48	11.45	10.69	10.69	5.71	5.97	--	--	9.17	9.28
Tennessee	10.80	10.84	10.61	10.59	5.43	5.76	--	--	9.65	9.72
West South Central	11.20	11.13	7.87	8.07	4.98	5.25	6.76	6.71	8.07	8.20
Arkansas	10.15	9.62	8.48	8.65	5.32	5.79	11.43	11.77	7.94	7.96
Louisiana	9.18	9.39	8.67	8.91	4.63	5.24	8.64	9.25	7.15	7.56
Oklahoma	9.63	9.77	7.24	7.40	4.21	4.86	--	--	7.05	7.42
Texas	12.01	11.92	7.77	7.97	5.18	5.25	6.64	6.52	8.45	8.50
Mountain	11.64	11.72	9.22	9.31	5.81	6.09	9.21	9.33	9.03	9.14
Arizona	12.36	12.60	9.91	10.17	5.57	6.13	8.78	9.23	10.14	10.36
Colorado	11.96	12.02	9.80	9.89	7.00	7.18	8.52	8.92	9.72	9.82
Idaho	9.68	9.82	7.47	7.66	5.57	5.72	--	--	7.72	7.91
Montana	11.31	10.98	10.45	10.24	4.72	5.75	--	--	9.07	9.20
Nevada	11.83	12.11	7.55	7.69	4.76	5.09	8.24	7.51	7.96	8.12
New Mexico	12.35	12.37	9.67	9.59	5.33	5.52	--	--	8.76	8.87
Utah	10.26	10.21	8.21	8.09	5.64	5.82	10.82	10.57	8.02	8.03
Wyoming	10.81	10.88	9.53	9.57	6.77	6.65	--	--	8.15	8.04
Pacific Contiguous	15.75	14.98	13.64	13.16	9.18	8.75	9.01	8.57	13.50	12.91
California	20.15	18.89	15.70	15.03	12.38	11.60	8.87	8.46	16.63	15.70
Oregon	10.96	10.83	9.02	8.96	5.95	6.30	9.37	9.11	9.11	9.13
Washington	9.58	9.51	8.89	8.76	4.75	4.83	9.83	9.36	8.16	8.08
Pacific Noncontiguous	27.69	28.25	24.99	25.23	23.36	24.10	--	--	25.39	25.82
Alaska	22.43	22.28	19.68	19.89	16.38	17.08	--	--	20.01	20.17
Hawaii	32.31	33.43	30.64	30.48	26.12	26.62	--	--	29.42	29.81
U.S. Total	13.01	12.90	10.38	10.46	6.41	6.64	9.50	9.69	10.35	10.37

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: 2010 - May 2020

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	125,717,935	17,674,338	747,747	239	144,140,259
2011	126,143,072	17,638,062	727,920	92	144,509,146
2012	126,832,343	17,729,029	732,385	83	145,293,840
2013	127,777,153	17,679,562	831,790	75	146,288,580
2014	128,680,416	17,853,995	839,212	79	147,373,702
2015	129,811,718	17,985,690	835,536	78	148,633,022
2016	131,068,760	18,148,353	838,059	86	150,055,258
2017	132,579,747	18,359,427	840,329	86	151,779,589
2018	133,893,321	18,605,393	840,321	83	153,339,118
2019	135,281,297	18,628,622	915,863	82	154,825,863
Year 2018					
January	133,302,446	18,552,003	838,797	82	152,693,328
February	132,923,513	18,440,673	811,940	82	152,176,208
March	133,852,602	18,574,947	822,275	82	153,249,906
April	133,417,773	18,526,543	824,075	82	152,768,473
May	134,121,801	18,613,438	851,023	82	153,586,344
June	133,935,311	18,615,355	858,759	83	153,409,508
July	133,883,159	18,623,955	860,910	83	153,368,107
August	134,433,813	18,686,099	866,859	83	153,986,854
Sept	133,791,062	18,594,023	844,187	83	153,229,355
October	134,377,594	18,717,481	844,839	83	153,939,997
November	134,155,451	18,636,211	823,868	83	153,615,613
December	134,524,109	18,682,871	835,705	83	154,042,768
Year 2019					
January	134,972,174	18,580,112	897,450	82	154,449,818
February	133,461,982	18,478,289	879,263	82	152,819,616
March	135,217,902	18,574,930	884,470	82	154,677,384
April	134,971,489	18,578,316	893,513	83	154,443,401
May	135,484,211	18,649,646	914,451	80	155,048,388
June	135,133,768	18,574,956	920,845	82	154,629,651
July	135,511,673	18,673,405	947,372	82	155,132,532
August	135,592,324	18,660,912	942,782	81	155,196,099
Sept	135,276,670	18,628,637	934,919	81	154,840,307
October	136,222,066	18,757,776	936,342	81	155,916,265
November	135,280,702	18,639,325	909,876	82	154,829,985
December	136,250,600	18,747,157	929,076	82	155,926,915
Year 2020					
January	136,144,897	18,680,499	935,087	82	155,760,565
February	135,425,123	18,619,364	919,229	82	154,963,798
March	136,675,134	18,790,316	936,499	82	156,402,031
April	136,648,590	18,747,305	942,664	82	156,338,641
May	136,518,264	18,708,151	942,835	83	156,169,333
Rolling 12 Months Ending in May					
2019	134,434,021	18,618,107	867,023	83	153,919,234
2020	135,889,984	18,685,650	933,127	82	155,508,844

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 2018 and prior years are final. Values for 2020 and 2019 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: May 2020 and 2019

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	6,455,167	6,419,888	925,522	900,043	19,287	19,944	6	6	7,399,982	7,339,881
Connecticut	1,521,871	1,510,442	153,890	154,390	4,102	4,171	3	3	1,679,866	1,669,006
Maine	700,647	725,183	98,816	99,877	2,608	3,031	0	0	802,071	828,091
Massachusetts	2,829,968	2,795,759	442,537	419,365	7,585	7,699	2	2	3,280,092	3,222,825
New Hampshire	634,057	627,416	109,399	108,509	3,134	3,144	0	0	746,590	739,069
Rhode Island	451,287	443,899	61,412	60,384	1,717	1,758	1	1	514,417	506,042
Vermont	317,337	317,189	59,468	57,518	141	141	0	0	376,946	374,848
Middle Atlantic	16,317,824	16,259,536	2,383,482	2,362,870	32,750	29,059	19	18	18,734,075	18,651,483
New Jersey	3,611,072	3,597,378	526,931	523,620	11,643	11,738	6	5	4,149,652	4,132,741
New York	7,254,216	7,235,449	1,135,259	1,118,979	6,413	6,569	8	8	8,395,896	8,361,005
Pennsylvania	5,452,536	5,426,709	721,292	720,271	14,694	10,752	5	5	6,188,527	6,157,737
East North Central	20,541,792	20,371,019	2,540,214	2,519,666	47,397	46,843	11	10	23,129,414	22,937,538
Illinois	5,368,232	5,328,234	626,683	618,976	3,987	3,980	3	3	5,998,905	5,951,193
Indiana	2,920,510	2,882,508	361,845	357,799	15,934	15,197	1	1	3,298,290	3,255,505
Michigan	4,447,647	4,410,373	553,893	550,982	NM	NM	2	2	5,007,139	4,966,971
Ohio	5,044,404	5,004,521	635,299	631,383	16,902	17,021	3	2	5,696,608	5,652,927
Wisconsin	2,760,999	2,745,383	362,494	360,526	NM	NM	2	2	3,128,472	3,110,942
West North Central	9,724,501	9,634,857	1,486,448	1,476,620	116,563	116,027	3	3	11,327,515	11,227,507
Iowa	1,422,607	1,408,804	249,237	247,910	NM	NM	0	0	1,678,745	1,663,667
Kansas	1,302,597	1,286,693	237,213	235,857	25,187	25,529	0	0	1,564,997	1,548,079
Minnesota	2,462,403	2,438,682	296,380	294,759	NM	NM	1	1	2,767,302	2,741,909
Missouri	2,863,366	2,836,418	388,698	384,313	6,514	6,586	2	2	3,258,580	3,227,319
Nebraska	877,620	870,096	163,850	163,159	57,283	56,506	0	0	1,098,753	1,089,761
North Dakota	384,770	386,696	75,206	75,205	9,009	8,886	0	0	468,985	470,787
South Dakota	411,138	407,468	75,864	75,417	NM	NM	0	0	490,153	485,985
South Atlantic	28,748,595	28,320,016	3,853,473	3,825,927	78,597	79,005	13	13	32,680,678	32,224,961
Delaware	441,606	434,638	55,842	55,419	564	565	0	0	498,012	490,622
District of Columbia	289,030	281,399	26,691	26,438	1	1	3	3	315,725	307,841
Florida	9,647,031	9,510,383	1,254,250	1,247,251	20,440	20,526	2	2	10,921,723	10,778,162
Georgia	4,522,921	4,447,011	591,273	587,658	19,656	19,753	1	1	5,133,851	5,054,423
Maryland	2,376,334	2,352,099	255,961	255,510	8,813	8,798	5	5	2,641,113	2,616,412
North Carolina	4,717,065	4,633,269	710,697	704,725	9,736	9,818	1	1	5,437,499	5,347,813
South Carolina	2,378,190	2,334,992	375,878	371,162	4,218	4,221	0	0	2,758,286	2,710,375
Virginia	3,515,617	3,469,327	435,470	432,547	3,811	3,824	1	1	3,954,899	3,905,699
West Virginia	860,801	856,898	147,411	145,217	11,358	11,499	0	0	1,019,570	1,013,614
East South Central	8,663,118	8,548,089	1,423,354	1,410,593	22,004	22,264	0	0	10,108,476	9,980,946
Alabama	2,298,770	2,277,973	370,919	371,127	8,189	8,227	0	0	2,677,878	2,657,327
Kentucky	2,044,766	2,015,102	310,848	306,416	5,339	5,470	0	0	2,360,953	2,326,988
Mississippi	1,341,871	1,327,565	238,125	239,896	7,589	7,720	0	0	1,587,585	1,575,181
Tennessee	2,977,711	2,927,449	503,462	493,154	887	847	0	0	3,482,060	3,421,450
West South Central	16,569,665	16,405,742	2,231,253	2,243,431	332,759	300,263	6	6	19,133,683	18,949,442
Arkansas	1,422,788	1,407,633	194,963	193,905	30,755	30,348	2	2	1,648,508	1,631,888
Louisiana	2,134,362	2,120,104	294,661	293,285	18,482	18,733	1	1	2,447,506	2,432,123
Oklahoma	1,824,210	1,802,582	289,489	286,043	19,229	19,624	0	0	2,132,928	2,108,249
Texas	11,188,305	11,075,423	1,452,140	1,470,198	264,293	231,558	3	3	12,904,741	12,777,182
Mountain	10,114,106	9,948,995	1,424,472	1,411,712	90,876	89,388	5	5	11,629,459	11,450,100
Arizona	2,882,252	2,827,331	329,161	326,982	NM	6,433	2	2	3,217,403	3,160,748
Colorado	2,396,054	2,360,274	371,723	367,538	NM	14,667	1	1	2,782,780	2,742,480
Idaho	777,197	758,378	114,031	112,157	29,150	28,953	0	0	920,378	899,488
Montana	525,243	518,476	113,472	112,261	NM	NM	0	0	646,876	638,426
Nevada	1,221,580	1,202,092	169,198	166,323	NM	NM	1	1	1,394,255	1,371,903
New Mexico	919,316	910,149	140,370	140,811	NM	8,607	0	0	1,068,235	1,059,567
Utah	1,113,826	1,095,692	127,418	126,544	10,652	9,654	1	1	1,251,897	1,231,891
Wyoming	278,638	276,603	59,099	59,096	9,898	9,898	0	0	347,635	345,597
Pacific Contiguous	18,651,574	18,847,399	2,324,875	2,384,143	200,348	209,425	20	19	21,176,817	21,440,986
California	13,703,220	13,950,670	1,676,688	1,739,770	144,307	153,153	13	12	15,524,228	15,843,605
Oregon	1,802,736	1,776,821	243,668	241,625	26,981	26,965	2	2	2,073,387	2,045,413
Washington	3,145,618	3,119,908	404,519	402,748	29,060	29,307	5	5	3,579,202	3,551,968
Pacific Noncontiguous	731,922	728,670	115,058	114,641	NM	NM	0	0	849,234	845,544
Alaska	292,183	290,947	55,235	54,773	NM	NM	0	0	348,852	347,144
Hawaii	439,739	437,723	59,823	59,868	820	809	0	0	500,382	498,400
U.S. Total	136,518,264	135,484,211	18,708,151	18,649,646	942,835	914,451	83	80	156,169,333	155,048,388

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.

Chapter 6

Capacity

Table 6.1. Electric Generating Summer Capacity Changes (MW), April 2020 to May 2020

		As of End of April 2020	Activity During May 2020 as Reported to EIA		As of End of May 2020	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		Reductions		Planned Net Change		Capacity	
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*	*106,107.8*	*969.0*	*142.4*	*106,934.4*	*826.6*	*3,379.2*	*10,096.1*	*1,157.1*	*21,524.7*	*0.0*	*0.0*	*1,157.1*	*21,524.7*	*108,091.5*	*128,459.1*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*12.0*	*0.0*	*0.0*	*0.0*	*12.0*	*29.3*	*41.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	106,137.1	969.0	142.4	106,963.7	826.6	3,379.2	10,096.1	1,157.1	21,536.7	0.0	0.0	1,157.1	21,536.7	108,120.8	128,500.4
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*37,916.7*	*505.0*	*16.1*	*38,405.6*	*488.9*	*2,834.4*	*6,897.6*	*1,664.2*	*12,354.3*	*0.0*	*0.0*	*1,664.2*	*12,354.3*	*40,069.8*	*50,759.9*
..... *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*	*405.6*	*0.0*	*0.0*	*405.6*	*0.0*	*0.2*	*0.2*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.6*	*405.6*
..... Solar Subtotal	Utility Scale Facilities	39,674.8	505.0	16.1	40,163.7	488.9	2,834.6	6,897.8	1,664.2	12,354.3	0.0	0.0	1,664.2	12,354.3	41,827.9	52,518.0
..... Conventional Hydroelectric	Utility Scale Facilities	79,762.1	11.2	10.0	79,763.3	1.2	17.0	-115.2	26.1	295.1	0.0	3.4	26.1	291.7	79,789.4	80,055.0
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,398.1*	*15.3*	*41.0*	*8,372.4*	*-25.7*	*-116.5*	*-179.9*	*0.0*	*0.0*	*0.0*	*20.0*	*0.0*	*-20.0*	*8,372.4*	*8,352.4*
..... *Landfill Gas*	*Utility Scale Facilities*	*1,989.7*	*2.6*	*15.1*	*1,977.2*	*-12.5*	*-58.7*	*-81.1*	*0.0*	*3.4*	*64.9*	*64.9*	*-64.9*	*-61.5*	*1,912.3*	*1,915.7*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,125.7*	*0.0*	*0.0*	*2,125.7*	*0.0*	*-63.6*	*-73.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,125.7*	*2,125.7*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*622.8*	*0.0*	*2.0*	*620.8*	*-2.0*	*-113.2*	*-114.0*	*0.0*	*50.8*	*0.0*	*0.0*	*0.0*	*50.8*	*620.8*	*671.6*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,136.3	17.9	58.1	13,096.1	-40.2	-352.0	-448.6	0.0	54.2	64.9	84.9	-64.9	-30.7	13,031.2	13,065.4
..... Geothermal	Utility Scale Facilities	2,557.7	0.0	2.3	2,555.4	-2.3	96.3	96.3	0.0	0.0	0.0	0.0	0.0	0.0	2,555.4	2,555.4
... Renewable Sources Subtotal	***Utility Scale Facilities***	***241,268.0***	***1,503.1***	***228.9***	***242,542.2***	***1,274.2***	***5,975.1***	***16,526.4***	***2,847.4***	***34,240.3***	***64.9***	***88.3***	***2,782.5***	***34,152.0***	***245,324.7***	***276,694.2***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*273,826.7*	*2,217.1*	*31.7*	*276,012.1*	*2,185.4*	*5,475.5*	*8,053.3*	*72.0*	*2,388.1*	*0.0*	*29.0*	*72.0*	*2,359.1*	*276,084.1*	*278,371.2*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*128,823.6*	*470.8*	*30.1*	*129,264.3*	*440.7*	*387.5*	*676.9*	*115.0*	*1,768.8*	*313.6*	*387.6*	*-198.6*	*1,381.2*	*129,065.7*	*130,645.5*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*70,431.8*	*128.9*	*275.3*	*70,285.4*	*-146.4*	*-1,666.9*	*-3,720.4*	*0.0*	*18.2*	*0.0*	*319.4*	*0.0*	*-301.2*	*70,285.4*	*69,984.2*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*5,158.6*	*5.7*	*5.7*	*5,158.6*	*0.0*	*227.3*	*275.2*	*5.0*	*90.6*	*8.4*	*28.4*	*-3.4*	*62.2*	*5,155.2*	*5,220.8*
..... *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*	*237.8*	*0.7*	*0.0*	*238.5*	*0.7*	*60.7*	*63.5*	*0.0*	*29.0*	*0.0*	*0.0*	*0.0*	*29.0*	*238.5*	*267.5*
..... Natural Gas Subtotal	Utility Scale Facilities	478,588.5	2,823.2	342.8	481,068.9	2,480.4	4,484.1	5,348.5	192.0	4,294.7	322.0	764.4	-130.0	3,530.3	480,938.9	484,599.2
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*225,063.2*	*46.6*	*1,340.7*	*223,769.1*	*-1,294.1*	*-4,716.3*	*-11,570.4*	*0.0*	*10.0*	*967.1*	*5,769.1*	*-967.1*	*-5,759.1*	*222,802.0*	*218,010.0*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*756.0*	*0.0*	*0.0*	*756.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*756.0*	*756.0*
..... Coal Subtotal	Utility Scale Facilities	225,819.2	46.6	1,340.7	224,525.1	-1,294.1	-4,716.3	-11,570.4	0.0	10.0	967.1	5,769.1	-967.1	-5,759.1	223,558.0	218,766.0
..... Petroleum Coke	Utility Scale Facilities	1,444.9	0.0	0.0	1,444.9	0.0	-20.3	-87.3	0.0	0.0	0.0	0.0	0.0	0.0	1,444.9	1,444.9
..... Petroleum Liquids	Utility Scale Facilities	30,397.7	5.5	178.0	30,225.2	-172.5	-407.1	-438.6	0.0	10.7	0.0	27.1	0.0	-16.4	30,225.2	30,208.8
..... Other Gases	Utility Scale Facilities	2,542.5	0.0	0.0	2,542.5	0.0	-6.4	-6.4	0.0	0.0	0.0	0.0	0.0	0.0	2,542.5	2,542.5
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***738,792.8***	***2,875.3***	***1,861.5***	***739,806.6***	***1,013.8***	***-666.0***	***-6,754.2***	***192.0***	***4,315.4***	***1,289.1***	***6,560.6***	***-1,097.1***	***-2,245.2***	***738,709.5***	***737,561.4***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,900.1	0.0	1.2	22,898.9	-1.2	20.7	77.7	0.0	149.3	0.0	0.0	0.0	149.3	22,898.9	23,048.2
..... Flywheels	Utility Scale Facilities	47.0	0.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0
..... Batteries	Utility Scale Facilities	1,045.9	3.9	0.0	1,049.8	3.9	34.6	101.3	16.3	913.4	0.0	0.0	16.3	913.4	1,066.1	1,963.2
..... Other Energy Storage	Utility Scale Facilities	1.9	0.0	0.0	1.9	0.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,994.9***	***3.9***	***1.2***	***23,997.6***	***2.7***	***57.2***	***180.9***	***16.3***	***1,062.7***	***0.0***	***0.0***	***16.3***	***1,062.7***	***24,013.9***	***25,060.3***
... Nuclear	***Utility Scale Facilities***	***97,102.9***	***0.0***	***0.0***	***97,102.9***	***0.0***	***-967.3***	***-1,770.1***	***0.0***	***20.0***	***0.0***	***1,639.3***	***0.0***	***-1,619.3***	***97,102.9***	***95,483.6***
... All Other	***Utility Scale Facilities***	***1,731.6***	***0.0***	***187.0***	***1,544.6***	***-187.0***	***49.1***	***97.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***1,544.6***	***1,544.6***
TOTAL	**UTILITY SCALE FACILITIES**	**1,102,890.2**	**4,382.3**	**2,278.6**	**1,104,993.9**	**2,103.7**	**4,448.1**	**8,280.0**	**3,055.7**	**39,638.4**	**1,354.0**	**8,288.2**	**1,701.7**	**31,350.2**	**1,106,695.6**	**1,136,344.1**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*24,581.0*			*24,807.4*	*226.4*	*1,596.6*	*3,936.8*								
..... Estimated Total Solar Photovoltaic	All Facilities	62,497.7			63,213.0	715.3	4,431.0	10,834.4								
... Estimated Total Solar	***All Facilities***	***64,255.8***			***64,971.1***	***715.3***	***4,431.2***	***10,834.6***								

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 - May 2020

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
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	25,209.0	16,147.8	41,356.8
2018	30,120.5	19,547.1	49,667.6
2019	35,571.2	23,210.8	58,782.0
Year 2018			
January	25,968.4	16,647.9	42,616.3
February	26,067.6	16,888.9	42,956.5
March	26,592.1	17,172.4	43,764.5
April	26,859.7	17,431.2	44,290.9
May	27,291.3	17,714.7	45,006.0
June	27,451.7	17,988.5	45,440.2
July	27,590.1	18,239.9	45,830.0
August	27,674.0	18,519.6	46,193.6
Sept	27,989.5	18,780.9	46,770.4
October	28,158.3	19,059.8	47,218.1
November	28,690.2	19,320.0	48,010.2
December	30,120.5	19,547.1	49,667.6
Year 2019			
January	30,924.8	19,727.0	50,651.8
February	31,132.5	19,967.1	51,099.6
March	31,355.3	20,284.2	51,639.5
April	31,444.8	20,561.2	52,006.0
May	31,508.0	20,870.6	52,378.6
June	31,826.6	21,137.2	52,963.8
July	32,053.9	21,473.3	53,527.2
August	32,276.1	21,790.9	54,067.0
Sept	32,491.1	22,102.7	54,593.8
October	32,987.2	22,428.1	55,415.3
November	33,647.2	22,710.0	56,357.2
December	35,571.2	23,210.8	58,782.0
Year 2020			
January	36,613.2	23,582.8	60,196.0
February	37,110.1	23,919.3	61,029.4
March	37,438.5	24,258.8	61,697.3
April	37,916.7	24,581.0	62,497.7
May	38,405.6	24,807.4	63,213.0

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 - May 2020

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	9,626.8	5,155.8	1,365.1	16,147.8
2018	11,720.4	6,271.4	1,555.4	19,547.1
2019	14,228.7	7,185.7	1,796.4	23,210.8
Year 2018				
January	9,817.0	5,460.2	1,370.7	16,647.9
February	9,977.5	5,530.9	1,380.4	16,888.9
March	10,144.5	5,629.9	1,398.0	17,172.4
April	10,301.4	5,712.2	1,417.5	17,431.2
May	10,476.8	5,801.6	1,436.2	17,714.7
June	10,643.5	5,891.0	1,454.0	17,988.5
July	10,810.7	5,967.0	1,462.2	18,239.9
August	10,991.8	6,055.4	1,472.4	18,519.6
Sept	11,157.7	6,132.3	1,491.0	18,780.9
October	11,354.3	6,204.2	1,501.4	19,059.8
November	11,529.1	6,261.2	1,529.7	19,320.0
December	11,720.4	6,271.4	1,555.4	19,547.1
Year 2019				
January	11,898.3	6,249.0	1,579.7	19,727.0
February	12,069.5	6,306.8	1,590.9	19,967.1
March	12,270.7	6,402.5	1,611.1	20,284.2
April	12,454.0	6,467.9	1,639.2	20,561.2
May	12,650.2	6,553.7	1,666.7	20,870.6
June	12,840.4	6,608.8	1,688.0	21,137.2
July	13,089.5	6,686.9	1,696.9	21,473.3
August	13,308.1	6,769.8	1,713.0	21,790.9
Sept	13,525.8	6,841.2	1,735.6	22,102.7
October	13,760.8	6,917.3	1,750.0	22,428.1
November	13,985.3	6,959.3	1,765.4	22,710.0
December	14,228.7	7,185.7	1,796.4	23,210.8
Year 2020				
January	14,491.2	7,270.6	1,821.0	23,582.8
February	14,746.6	7,326.0	1,846.7	23,919.3
March	14,963.4	7,428.8	1,866.6	24,258.8
April	15,182.6	7,528.9	1,869.5	24,581.0
May	15,379.5	7,537.0	1,890.8	24,807.4

Values are preliminary.
Improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
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.A. Net Summer Capacity of Utility Scale Units by Technology and by State, May 2020 and 2019 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	6,042.0	5,941.5	24,225.2	23,294.7	1,797.4	1,797.4	71.2	42.8	3,323.5	3,323.5	48.0	48.0	35,507.3	34,447.9
Connecticut	458.7	420.8	7,878.6	7,273.4	29.4	29.4	1.6	1.6	2,073.1	2,073.1	26.0	26.0	10,467.4	9,824.3
Maine	2,230.5	2,347.1	2,499.3	2,478.8	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,768.0	4,864.1
Massachusetts	1,516.5	1,427.3	9,576.7	9,275.0	1,768.0	1,768.0	42.5	22.0	0.0	0.0	0.0	0.0	12,903.7	12,492.3
New Hampshire	956.5	928.1	2,289.9	2,289.9	0.0	0.0	0.0	0.0	1,250.4	1,250.4	0.0	0.0	4,496.8	4,468.4
Rhode Island	195.1	150.2	1,835.1	1,832.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,030.2	1,982.3
Vermont	684.7	668.0	145.6	145.5	0.0	0.0	10.9	3.0	0.0	0.0	0.0	0.0	841.2	816.5
Middle Atlantic	11,622.0	11,396.4	74,280.4	73,009.2	3,383.3	3,380.6	143.5	143.5	16,940.5	18,697.9	11.2	11.2	106,380.9	106,638.8
New Jersey	1,126.4	1,033.1	12,241.5	12,157.3	420.0	420.0	42.1	42.1	3,467.1	3,500.2	11.2	11.2	17,308.3	17,163.9
New York	7,520.8	7,501.9	27,042.9	26,910.7	1,411.3	1,408.6	53.0	53.0	4,380.2	5,400.7	0.0	0.0	40,408.2	41,274.9
Pennsylvania	2,974.8	2,861.4	34,996.0	33,941.2	1,552.0	1,552.0	48.4	48.4	9,093.2	9,797.0	0.0	0.0	48,664.4	48,200.0
East North Central	13,974.7	12,897.8	109,121.4	111,468.6	2,249.0	2,174.0	194.7	189.7	19,007.1	19,001.8	187.1	187.1	144,734.0	145,919.0
Illinois	5,734.1	4,966.6	27,062.2	29,056.5	0.0	0.0	132.7	132.7	11,582.4	11,582.4	78.0	78.0	44,589.4	45,816.2
Indiana	2,685.3	2,658.0	23,840.9	23,894.4	0.0	0.0	28.0	23.0	0.0	0.0	88.0	88.0	26,642.2	26,663.4
Michigan	3,233.7	2,993.9	20,078.4	20,215.1	2,249.0	2,174.0	1.0	1.0	4,089.6	4,089.6	0.0	0.0	29,651.7	29,473.6
Ohio	1,195.7	1,058.3	24,493.8	25,241.3	0.0	0.0	33.0	33.0	2,134.0	2,134.0	0.0	0.0	27,856.5	28,466.6
Wisconsin	1,125.9	1,221.0	13,646.1	13,061.3	0.0	0.0	0.0	0.0	1,201.1	1,195.8	21.1	21.1	15,994.2	15,499.2
West North Central	34,512.2	30,122.8	58,987.9	59,181.2	657.0	657.0	20.1	20.1	5,443.4	5,443.4	22.8	22.8	99,643.4	95,447.3
Iowa	10,685.6	8,970.1	9,827.7	9,808.2	0.0	0.0	1.1	1.1	601.4	601.4	0.0	0.0	21,115.8	19,380.8
Kansas	6,575.5	5,884.0	8,846.1	9,024.8	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,647.4	16,134.6
Minnesota	5,541.2	5,242.4	10,386.9	10,149.5	0.0	0.0	16.0	16.0	1,657.0	1,657.0	16.7	16.7	17,617.8	17,081.6
Missouri	1,821.0	1,579.0	17,431.1	17,672.0	657.0	657.0	2.2	2.2	1,190.0	1,190.0	0.0	0.0	21,101.3	21,100.2
Nebraska	2,495.7	2,332.9	6,197.2	6,201.8	0.0	0.0	0.0	0.0	770.0	770.0	0.0	0.0	9,462.9	9,304.7
North Dakota	4,198.3	3,637.6	4,601.4	4,633.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,805.0	8,276.5
South Dakota	3,194.9	2,476.8	1,697.5	1,691.3	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	4,893.2	4,168.9
South Atlantic	24,049.0	20,681.0	161,224.5	162,225.2	7,905.2	7,905.2	78.4	76.5	24,688.6	24,706.6	468.9	408.7	218,414.6	216,003.2
Delaware	50.9	47.4	3,323.9	3,330.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,374.8	3,377.8
District of Columbia	20.4	18.9	20.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	35.4
Florida	4,486.4	3,211.2	53,463.7	52,757.3	0.0	0.0	15.9	14.0	3,626.0	3,626.0	312.9	348.7	61,904.9	59,957.2
Georgia	4,775.8	4,028.3	26,089.2	27,054.5	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,789.2	37,007.0
Maryland	1,250.5	1,203.1	11,726.6	11,965.4	0.0	0.0	7.0	7.0	1,707.8	1,725.8	6.0	6.0	14,697.9	14,907.3
North Carolina	7,359.8	6,827.6	22,180.8	22,011.5	86.0	86.0	1.0	1.0	5,149.6	5,149.6	54.0	54.0	34,831.2	34,129.7
South Carolina	2,767.7	2,244.5	11,764.1	12,161.3	2,716.0	2,716.0	4.0	4.0	6,576.2	6,576.2	0.0	0.0	23,828.0	23,702.0
Virginia	2,251.0	2,069.7	18,917.7	19,140.4	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	96.0	0.0	28,073.7	28,019.1
West Virginia	1,086.5	1,030.3	13,737.9	13,787.9	0.0	0.0	49.5	49.5	0.0	0.0	0.0	0.0	14,873.9	14,867.7
East South Central	8,911.3	8,891.3	61,424.5	62,900.6	1,616.3	1,616.3	1.0	1.0	11,449.1	11,449.1	1.4	1.4	83,403.6	84,859.7
Alabama	4,119.1	4,163.0	19,635.1	19,552.3	0.0	0.0	1.0	1.0	5,525.4	5,525.4	0.0	0.0	29,280.6	29,241.7
Kentucky	1,247.6	1,245.2	16,877.1	18,290.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,124.7	19,535.5
Mississippi	520.5	463.0	12,670.0	12,867.7	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,592.9	14,733.1
Tennessee	3,024.1	3,020.1	12,242.3	12,190.3	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,405.4	21,349.4
West South Central	44,031.0	39,219.1	140,132.9	140,060.5	286.0	286.0	161.5	99.8	8,910.7	8,910.7	548.6	512.5	194,070.7	189,088.6
Arkansas	1,642.7	1,697.1	11,281.0	11,242.4	28.0	28.0	12.0	0.0	1,817.8	1,817.8	0.0	0.0	14,781.5	14,785.3
Louisiana	615.0	615.5	22,486.2	21,005.5	0.0	0.0	0.5	0.5	2,132.9	2,132.9	329.6	288.5	25,564.2	24,042.9
Oklahoma	9,139.0	9,041.0	17,978.6	18,155.1	258.0	258.0	10.0	0.0	0.0	0.0	0.0	0.0	27,385.6	27,454.1
Texas	32,634.3	27,865.5	88,387.1	89,657.5	0.0	0.0	139.0	99.3	4,960.0	4,960.0	219.0	224.0	126,339.4	122,806.3
Mountain	28,652.0	27,436.9	59,549.4	62,589.2	778.8	778.8	54.3	56.1	3,937.0	3,937.0	123.7	123.0	93,095.2	94,921.0
Arizona	5,337.0	5,101.1	17,505.7	19,727.8	216.3	216.3	42.0	42.0	3,937.0	3,937.0	0.0	0.0	27,038.0	29,024.2
Colorado	5,135.0	4,959.7	10,932.9	11,063.0	562.5	562.5	10.5	10.5	0.0	0.0	9.1	9.1	16,650.0	16,604.8
Idaho	4,070.0	4,069.9	1,127.1	1,127.1	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,211.9	5,211.8
Montana	3,665.8	3,574.6	2,125.1	2,744.9	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	5,830.9	6,359.5
Nevada	4,099.6	3,758.8	7,821.6	7,821.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,927.7	11,586.9
New Mexico	2,811.6	2,483.7	5,964.4	5,956.3	0.0	0.0	1.8	3.6	0.0	0.0	0.7	0.0	8,778.5	8,443.6
Utah	1,648.0	1,602.7	7,303.3	7,374.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,991.5	9,017.1
Wyoming	1,885.0	1,886.4	6,769.3	6,774.3	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	8,666.7	8,673.1
Pacific Contiguous	69,507.2	68,218.8	46,497.1	47,602.0	4,225.9	4,225.9	265.8	258.8	3,403.0	3,403.0	106.3	106.3	124,005.3	123,814.8
California	32,256.5	31,196.8	37,440.1	38,534.1	3,911.9	3,911.9	254.6	247.6	2,240.0	2,240.0	106.3	106.3	76,209.4	76,236.7
Oregon	12,527.5	12,250.5	4,315.2	4,326.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,847.7	16,581.6
Washington	24,723.2	24,771.5	4,741.8	4,741.8	314.0	314.0	6.2	6.2	1,163.0	1,163.0	0.0	0.0	30,948.2	30,996.5
Pacific Noncontiguous	1,240.8	1,210.2	4,363.3	4,229.6	0.0	0.0	108.2	107.2	0.0	0.0	26.6	26.6	5,738.9	5,573.6
Alaska	538.2	538.2	2,192.0	2,171.3	0.0	0.0	47.2	46.2	0.0	0.0	0.0	0.0	2,777.4	2,755.7
Hawaii	702.6	672.0	2,171.3	2,058.3	0.0	0.0	61.0	61.0	0.0	0.0	26.6	26.6	2,961.5	2,817.9
U.S. Total	242,542.2	226,015.8	739,806.6	746,560.8	22,898.9	22,821.2	1,098.7	995.5	97,102.9	98,873.0	1,544.6	1,447.6	1,104,993.9	1,096,713.9

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, May 2020 and 2019 (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	
	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	1,462.8	1,424.8	1,204.6	1,019.3	0.0	0.0	1,957.6	1,960.1	1,417.0	1,537.3	0.0	0.0	6,042.0	5,941.5	2,711.4	2,314.3	3,916.0	3,333.6	3,916.0	3,333.6
Connecticut	1.0	1.0	138.4	95.0	0.0	0.0	119.4	122.2	199.9	202.6	0.0	0.0	458.7	420.8	549.6	442.9	688.0	537.9	688.0	537.9
Maine	921.6	921.6	5.6	5.6	0.0	0.0	734.0	733.0	569.3	686.9	0.0	0.0	2,230.5	2,347.1	59.1	51.3	64.7	56.9	64.7	56.9
Massachusetts	105.7	96.1	859.6	779.3	0.0	0.0	266.3	267.0	284.9	284.9	0.0	0.0	1,516.5	1,427.3	1,679.0	1,508.2	2,538.6	2,287.5	2,538.6	2,287.5
New Hampshire	211.5	183.1	0.0	0.0	0.0	0.0	504.0	504.0	241.0	241.0	0.0	0.0	956.5	928.1	108.9	88.8	108.9	88.8	108.9	88.8
Rhode Island	72.8	72.8	79.5	34.6	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	195.1	150.2	189.7	112.4	269.2	147.0	269.2	147.0
Vermont	150.2	150.2	121.5	104.8	0.0	0.0	331.2	331.2	81.8	81.8	0.0	0.0	684.7	668.0	125.1	110.6	246.6	215.4	246.6	215.4
Middle Atlantic	3,453.3	3,467.3	1,517.2	1,176.5	0.0	0.0	5,474.1	5,473.2	1,177.4	1,279.4	0.0	0.0	11,622.0	11,396.4	3,805.7	3,190.0	5,322.9	4,366.5	5,322.9	4,366.5
New Jersey	7.6	7.6	912.7	785.9	0.0	0.0	12.3	12.3	193.8	227.3	0.0	0.0	1,126.4	1,033.1	1,763.2	1,525.0	2,675.9	2,310.9	2,675.9	2,310.9
New York	1,985.7	2,089.7	513.6	326.8	0.0	0.0	4,562.2	4,561.3	459.3	524.1	0.0	0.0	7,520.8	7,501.9	1,633.3	1,326.6	2,146.9	1,653.4	2,146.9	1,653.4
Pennsylvania	1,460.0	1,370.0	90.9	63.8	0.0	0.0	899.6	899.6	524.3	528.0	0.0	0.0	2,974.8	2,861.4	409.2	338.4	500.1	402.2	500.1	402.2
East North Central	11,395.5	10,332.1	541.9	469.9	0.0	0.0	878.8	859.9	1,158.5	1,235.9	0.0	0.0	13,974.7	12,897.8	777.2	473.6	1,319.1	943.5	1,319.1	943.5
Illinois	5,568.2	4,803.7	43.6	40.6	0.0	0.0	34.1	34.1	88.2	88.2	0.0	0.0	5,734.1	4,966.6	286.5	110.2	330.1	150.8	330.1	150.8
Indiana	2,309.8	2,309.8	244.3	217.0	0.0	0.0	60.4	60.4	70.8	70.8	0.0	0.0	2,685.3	2,658.0	111.6	80.6	355.9	297.6	355.9	297.6
Michigan	2,354.3	2,061.8	102.0	100.2	0.0	0.0	273.4	269.9	504.0	562.0	0.0	0.0	3,233.7	2,993.9	108.0	73.3	210.0	173.5	210.0	173.5
Ohio	843.5	718.4	111.6	88.2	0.0	0.0	101.9	101.9	138.7	149.8	0.0	0.0	1,195.7	1,058.3	176.1	142.1	287.7	230.3	287.7	230.3
Wisconsin	319.7	438.4	40.4	23.9	0.0	0.0	409.0	393.6	356.8	365.1	0.0	0.0	1,125.9	1,221.0	95.0	67.4	135.4	91.3	135.4	91.3
West North Central	29,737.6	25,468.3	1,062.3	899.6	0.0	0.0	3,296.7	3,296.7	415.6	458.2	0.0	0.0	34,512.2	30,122.8	465.8	366.2	1,528.1	1,265.8	1,528.1	1,265.8
Iowa	10,502.6	8,791.8	16.0	10.5	0.0	0.0	146.4	146.4	20.6	21.4	0.0	0.0	10,685.6	8,970.1	130.7	100.9	146.7	111.4	146.7	111.4
Kansas	6,529.3	5,857.8	30.2	10.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	6,575.5	5,884.0	28.1	21.7	58.3	31.9	58.3	31.9
Minnesota	4,054.2	3,850.5	934.7	797.8	0.0	0.0	205.9	205.9	346.4	388.2	0.0	0.0	5,541.2	5,242.4	77.7	65.1	1,012.4	862.9	1,012.4	862.9
Missouri	1,196.3	954.3	62.1	62.1	0.0	0.0	548.5	548.5	14.1	14.1	0.0	0.0	1,821.0	1,579.0	216.3	168.5	278.4	230.6	278.4	230.6
Nebraska	2,180.8	2,018.3	18.3	18.0	0.0	0.0	280.9	280.9	15.7	15.7	0.0	0.0	2,495.7	2,332.9	11.6	8.7	29.9	26.7	29.9	26.7
North Dakota	3,678.5	3,117.8	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	4,198.3	3,637.6	0.5	0.5	0.5	0.5	0.5	0.5
South Dakota	1,595.9	877.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	3,194.9	2,476.8	0.9	0.7	1.9	1.7	1.9	1.7
South Atlantic	1,142.5	1,086.3	11,368.5	8,174.5	0.0	0.0	7,202.4	7,226.4	4,335.6	4,193.8	0.0	0.0	24,049.0	20,681.0	2,311.0	1,884.2	13,679.5	10,058.7	13,679.5	10,058.7
Delaware	2.0	2.0	36.7	33.2	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	50.9	47.4	84.3	81.5	121.0	114.7	121.0	114.7
District of Columbia	0.0	0.0	8.4	6.9	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	20.4	18.9	71.0	51.2	79.4	58.1	79.4	58.1
Florida	0.0	0.0	3,258.8	1,975.9	0.0	0.0	43.5	54.5	1,184.1	1,180.8	0.0	0.0	4,486.4	3,211.2	596.0	373.2	3,854.8	2,349.1	3,854.8	2,349.1
Georgia	0.0	0.0	1,683.8	1,031.7	0.0	0.0	2,032.2	2,047.2	1,059.8	949.4	0.0	0.0	4,775.8	4,028.3	NM	178.4	NM	1,210.1	NM	1,210.1
Maryland	190.0	190.0	329.6	282.2	0.0	0.0	590.0	590.0	140.9	140.9	0.0	0.0	1,250.5	1,203.1	787.5	745.8	1,117.1	1,028.0	1,117.1	1,028.0
North Carolina	208.0	208.0	4,581.8	4,056.7	0.0	0.0	2,006.0	2,004.0	564.0	558.9	0.0	0.0	7,359.8	6,827.6	206.5	156.4	4,788.3	4,213.1	4,788.3	4,213.1
South Carolina	0.0	0.0	889.3	394.1	0.0	0.0	1,323.9	1,323.9	554.5	526.5	0.0	0.0	2,767.7	2,244.5	243.1	215.7	1,132.4	609.8	1,132.4	609.8
Virginia	0.0	0.0	580.1	393.8	0.0	0.0	866.0	866.0	804.9	809.9	0.0	0.0	2,251.0	2,069.7	125.5	74.2	705.6	468.0	705.6	468.0
West Virginia	742.5	686.3	0.0	0.0	0.0	0.0	340.8	340.8	3.2	3.2	0.0	0.0	1,086.5	1,030.3	9.9	7.8	9.9	7.8	9.9	7.8
East South Central	29.1	29.1	620.5	559.0	0.0	0.0	7,055.3	7,055.5	1,206.4	1,247.7	0.0	0.0	8,911.3	8,891.3	109.6	99.1	730.1	658.1	730.1	658.1
Alabama	0.0	0.0	194.1	194.1	0.0	0.0	3,291.8	3,292.0	633.2	676.9	0.0	0.0	4,119.1	4,163.0	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	26.1	26.1	0.0	0.0	1,146.9	1,146.9	74.6	72.2	0.0	0.0	1,247.6	1,245.2	32.1	24.5	58.2	50.6	58.2	50.6
Mississippi	0.0	0.0	218.1	160.6	0.0	0.0	0.0	0.0	302.4	302.4	0.0	0.0	520.5	463.0	9.4	7.9	227.5	168.5	227.5	168.5
Tennessee	29.1	29.1	182.2	178.2	0.0	0.0	2,616.6	2,616.6	196.2	196.2	0.0	0.0	3,024.1	3,020.1	59.3	58.1	241.5	236.3	241.5	236.3
West South Central	37,016.9	32,887.0	2,848.5	2,102.0	0.0	0.0	3,001.4	2,991.4	1,164.2	1,238.7	0.0	0.0	44,031.0	39,219.1	965.4	732.5	3,813.9	2,834.5	3,813.9	2,834.5
Arkansas	0.0	0.0	112.2	100.0	0.0	0.0	1,265.8	1,265.8	264.7	331.3	0.0	0.0	1,642.7	1,697.1	35.5	20.5	147.7	120.5	147.7	120.5
Louisiana	0.0	0.0	1.1	1.1	0.0	0.0	192.0	192.0	421.9	422.4	0.0	0.0	615.0	615.5	149.7	141.8	150.8	142.9	150.8	142.9
Oklahoma	8,168.7	8,070.7	30.5	30.5	0.0	0.0	863.6	863.6	76.2	76.2	0.0	0.0	9,139.0	9,041.0	14.6	10.6	45.1	41.1	45.1	41.1
Texas	28,848.2	24,816.3	2,704.7	1,970.4	0.0	0.0	680.0	670.0	401.4	408.8	0.0	0.0	32,634.3	27,865.5	765.5	559.6	3,470.2	2,530.0	3,470.2	2,530.0
Mountain	9,918.8	9,560.6	6,775.8	5,934.1	474.1	473.9	10,652.8	10,653.6	173.8	175.7	656.7	639.0	28,652.0	27,436.9	2,931.3	2,488.9	9,707.1	8,423.0	10,181.2	8,896.9
Arizona	267.3	267.3	2,022.5	1,786.8	295.6	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,337.0	5,101.1	1,522.3	1,320.4	3,544.8	3,107.2	3,840.4	3,402.6
Colorado	3,757.9	3,698.5	664.3	546.1	0.0	0.0	684.1	686.4	28.7	28.7	0.0	0.0	5,135.0	4,959.7	405.1	369.8	1,069.4	915.9	1,069.4	915.9
Idaho	970.4	970.4	242.0	240.0	0.0	0.0	2,764.2	2,764.2	83.4	85.3	10.0	10.0	4,070.0	4,069.9	50.1	32.7	292.1	272.7	292.1	272.7
Montana	863.2	783.5	17.0	17.0	0.0	0.0	2,782.6	2,771.1	3.0	3.0	0.0	0.0	3,665.8	3,574.6	19.3	15.1	36.3	32.1	36.3	32.1
Nevada	150.0	150.0	2,142.5	1,821.7	178.5	178.5	1,051.4	1,051.4	9.8	9.8	567.4	547.4	4,099.6	3,758.8	455.6	348.0	2,598.1	2,169.7	2,776.6	2,348.2
New Mexico	2,035.9	1,815.4	678.8	571.4	0.0	0.0	82.9	82.9	5.4	5.4	8.6	8.6	2,811.6	2,483.7	178.2	148.2	857.0	719.6	857.0	719.6
Utah	388.2	388.2	916.7	859.1	0.0	0.0	259.6	269.6	12.8	12.8	70.7	73.0	1,648.0	1,602.7	293.2	249.5	1,209.9	1,108.6	1,209.9	1,108.6
Wyoming	1,485.9	1,487.3	92.0	92.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,885.0	1,886.4	7.4	5.2	99.4	97.2	99.4	97.2
Pacific Contiguous	12,541.0	12,345.9	12,198.6	11,049.0	1,284.0	1,284.0	39,741.2	39,858.7	1,886.7	1,904.1	1,855.7	1,777.1	69,507.2	68,218.8	10,033.2	8,700.6	22,231.8	19,749.6	23,515.8	21,033.6
California	6,029.2	6,057.5	11,718.2	10,709.0	1,284.0	1,284.0	10,201.6	10,184.0	1,187.3	1,204.7	1,836.2	1,757.6	32,256.5	31,196.8	9,664.8	8,362.1	21,383.0	19,071.1	22,667.0	20,355.1
Oregon	3,415.3	3,215.3	460.7	320.3	0.0	0.0	8,317.0	8,380.4	315.0	315.0	19.5	19.5	12,527.5	12,250.5	183.9	182.7	644.6	503.0	644.6	503.0
Washington	3,096.5	3,073.1	19.7	19.7	0.0	0.0	21,222.6	21,294.3	384.4	384.4	0.0	0.0	24,723.2	24,771.5	184.6	155.8	204.3	175.5	204.3	175.5
Pacific Noncontiguous	266.2	266.2	267.7	124.1	0.0	0.0	503.0	503.0	160.9	273.9	43.0	43.0	1,240.8	1,210.2	696.8	621.2	964.5	745.3	964.5	745.3
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.6	470.6	7.0	7.0	0.0	0.0	538.2	538.2	6.0	3.5	6.0	3.5	6.0	3.5
Hawaii	205.6	205.6	267.7	124.1	0.0	0.0	32.4	32.4	153.9	266.9	43.0	43.0	702.6	672.0	690.8	617.7	958.5	741.8	958.5	741.8
U.S. Total	106,963.7	96,867.6	38,405.6	31,508.0	1,758.1	1,757.9	79,763.3	79,878.5	13,096.1	13,544.7	2,555.4	2,459.1	242,542.2	226,015.8	24,807.4	20,870.6	63,213.0	52,378.6	64,971.1	54,136.5

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, May 2020 and 2019 (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	
	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019	May 2020	May 2019
New England	14,288.1	13,691.1	1,776.0	1,251.4	1,106.7	1,116.3	917.3	917.3	0.0	0.0	6,137.1	6,318.6	0.0	0.0	24,225.2	23,294.7
Connecticut	3,991.6	3,413.4	580.4	563.0	888.3	878.7	383.4	383.4	0.0	0.0	2,034.9	2,034.9	0.0	0.0	7,878.6	7,273.4
Maine	1,285.6	1,284.3	322.3	144.3	12.5	12.5	0.0	0.0	0.0	0.0	878.9	1,037.7	0.0	0.0	2,499.3	2,478.8
Massachusetts	5,962.7	5,948.2	857.1	527.9	180.5	199.7	0.0	0.0	0.0	0.0	2,576.4	2,599.2	0.0	0.0	9,576.7	9,275.0
New Hampshire	1,258.0	1,258.0	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	494.2	494.2	0.0	0.0	2,289.9	2,289.9
Rhode Island	1,790.2	1,787.2	12.4	12.4	25.4	25.4	0.0	0.0	0.0	0.0	7.1	7.1	0.0	0.0	1,835.1	1,832.1
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.6	145.5	0.0	0.0	145.6	145.5
Middle Atlantic	36,389.6	33,150.0	7,894.3	7,901.0	14,143.9	14,449.3	10,346.8	11,960.7	11.6	78.6	5,363.5	5,338.9	130.7	130.7	74,280.4	73,009.2
New Jersey	8,579.0	8,541.5	2,844.3	2,826.3	68.5	46.9	463.0	463.0	11.6	11.6	246.1	239.0	29.0	29.0	12,241.5	12,157.3
New York	9,924.0	8,893.9	3,177.6	3,165.7	9,739.1	9,675.0	652.1	1,631.5	0.0	0.0	3,550.1	3,544.6	0.0	0.0	27,042.9	26,910.7
Pennsylvania	17,886.6	15,714.6	1,872.4	1,909.0	4,336.3	4,727.4	9,231.7	9,866.2	0.0	67.0	1,567.3	1,555.3	101.7	101.7	34,996.0	33,941.2
East North Central	22,387.4	21,697.3	26,691.6	26,701.5	5,593.8	5,743.3	50,768.3	53,530.2	247.6	247.6	2,347.8	2,455.8	1,084.9	1,092.9	109,121.4	111,468.6
Illinois	3,580.2	3,580.2	10,530.4	10,510.1	1,626.7	1,629.8	10,615.5	12,626.0	0.0	0.0	672.9	673.9	36.5	36.5	27,062.2	29,056.5
Indiana	3,866.0	3,866.0	3,281.3	3,335.1	730.3	730.0	15,245.7	15,245.7	0.0	0.0	98.3	98.3	619.3	619.3	23,840.9	23,894.4
Michigan	4,425.0	4,413.6	3,885.1	3,874.0	2,416.0	2,558.5	8,590.3	8,608.3	47.2	47.2	464.8	463.5	250.0	250.0	20,078.4	20,215.1
Ohio	7,037.8	7,026.4	5,636.7	5,620.1	190.7	185.1	10,776.0	11,496.0	142.0	142.0	531.5	584.6	179.1	187.1	24,493.8	25,241.3
Wisconsin	3,478.4	2,811.1	3,358.1	3,362.2	630.1	639.9	5,540.8	5,554.2	58.4	58.4	580.3	635.5	0.0	0.0	13,646.1	13,061.3
West North Central	7,019.1	6,642.1	11,592.1	11,733.4	3,729.0	3,803.2	32,757.5	33,079.3	32.0	39.5	3,849.8	3,875.3	8.4	8.4	58,987.9	59,181.2
Iowa	1,829.0	1,781.0	1,226.8	1,259.4	555.4	539.2	5,364.8	5,371.7	32.0	39.5	819.7	817.4	0.0	0.0	9,827.7	9,808.2
Kansas	266.0	266.0	2,158.1	2,156.8	1,185.6	1,357.8	4,678.5	4,679.8	0.0	0.0	557.9	564.4	0.0	0.0	8,846.1	9,024.8
Minnesota	2,496.0	2,172.0	2,544.8	2,668.8	421.1	381.6	4,157.9	4,157.9	0.0	0.0	767.1	769.2	0.0	0.0	10,386.9	10,149.5
Missouri	1,794.9	1,794.9	3,394.7	3,396.8	869.5	878.5	10,266.5	10,486.5	0.0	0.0	1,105.5	1,115.3	0.0	0.0	17,431.1	17,672.0
Nebraska	338.2	338.2	1,149.0	1,149.0	521.7	525.8	3,867.0	3,867.0	0.0	0.0	321.3	321.8	0.0	0.0	6,197.2	6,201.8
North Dakota	0.0	0.0	414.0	408.0	167.0	111.6	3,948.8	4,042.4	0.0	0.0	63.2	63.2	8.4	8.4	4,601.4	4,633.6
South Dakota	295.0	290.0	704.7	694.6	8.7	8.7	474.0	474.0	0.0	0.0	215.1	224.0	0.0	0.0	1,697.5	1,691.3
South Atlantic	61,980.5	60,919.8	31,919.4	32,018.1	7,271.3	6,970.1	51,075.1	53,083.2	142.8	142.8	8,700.4	8,956.2	135.0	135.0	161,224.5	162,225.2
Delaware	1,504.0	1,511.0	316.4	317.2	844.4	843.1	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,323.9	3,330.4
District of Columbia	0.0	0.0	20.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	16.5
Florida	31,958.7	31,347.4	7,825.7	7,755.1	2,521.7	2,493.2	7,802.0	7,804.0	59.0	59.0	3,296.6	3,298.6	0.0	0.0	53,463.7	52,757.3
Georgia	7,997.9	7,992.9	7,803.2	7,791.0	842.9	842.9	8,416.0	9,398.5	83.8	83.8	945.4	945.4	0.0	0.0	26,089.2	27,054.5
Maryland	2,845.7	2,849.1	1,939.2	1,994.0	1,416.1	1,513.1	4,270.0	4,330.0	0.0	0.0	1,255.6	1,279.2	0.0	0.0	11,726.6	11,965.4
North Carolina	5,616.2	5,068.0	6,050.4	6,050.7	1.0	1.0	10,011.2	10,389.2	0.0	0.0	502.0	502.6	0.0	0.0	22,180.8	22,011.5
South Carolina	3,185.0	3,185.0	2,625.2	2,754.9	950.0	546.0	4,769.0	5,212.0	0.0	0.0	234.9	463.4	0.0	0.0	11,764.1	12,161.3
Virginia	8,873.0	8,966.4	4,245.3	4,245.3	579.7	615.3	2,878.9	2,971.5	0.0	0.0	2,340.8	2,341.9	0.0	0.0	18,917.7	19,140.4
West Virginia	0.0	0.0	1,093.4	1,093.4	115.5	115.5	12,518.0	12,568.0	0.0	0.0	11.0	11.0	0.0	0.0	13,737.9	13,787.9
East South Central	21,797.3	21,746.2	12,712.7	12,669.7	4,303.4	4,503.8	22,484.6	23,844.1	0.0	0.0	106.7	117.0	19.8	19.8	61,424.5	62,900.6
Alabama	9,754.8	9,699.0	2,575.8	2,575.8	1,957.8	1,939.1	5,284.3	5,276.0	0.0	0.0	42.6	42.6	19.8	19.8	19,635.1	19,552.3
Kentucky	1,763.0	1,763.0	4,931.2	4,976.6	260.0	260.0	9,911.0	11,278.8	0.0	0.0	11.9	11.9	0.0	0.0	16,877.1	18,290.3
Mississippi	7,824.4	7,829.1	1,373.2	1,336.8	2,019.4	2,238.5	1,444.0	1,444.0	0.0	0.0	9.0	19.3	0.0	0.0	12,670.0	12,867.7
Tennessee	2,455.1	2,455.1	3,832.5	3,780.5	66.2	66.2	5,845.3	5,845.3	0.0	0.0	43.2	43.2	0.0	0.0	12,242.3	12,190.3
West South Central	62,752.6	61,240.5	14,927.7	14,419.1	30,386.7	31,839.4	30,119.1	30,600.4	938.9	954.7	169.1	175.6	838.8	830.8	140,132.9	140,060.5
Arkansas	4,609.8	4,608.8	702.8	702.8	796.0	796.0	5,163.4	5,122.6	0.0	0.0	9.0	12.2	0.0	0.0	11,281.0	11,242.4
Louisiana	9,701.2	8,430.6	2,618.1	2,349.6	6,004.1	6,050.2	2,837.1	2,833.7	875.1	890.9	43.2	43.1	407.4	407.4	22,486.2	21,005.5
Oklahoma	7,321.2	7,307.2	1,630.9	1,686.9	5,706.1	5,764.1	3,246.0	3,322.5	0.0	0.0	74.4	74.4	0.0	0.0	17,978.6	18,155.1
Texas	41,120.4	40,893.9	9,975.9	9,679.8	17,880.5	19,229.1	18,872.6	19,321.6	63.8	63.8	42.5	45.9	431.4	423.4	88,387.1	89,657.5
Mountain	22,554.4	22,539.8	9,129.4	9,163.1	3,634.7	3,615.4	23,725.5	26,765.5	52.0	52.0	349.9	349.9	103.5	103.5	59,549.4	62,589.2
Arizona	9,916.5	9,908.6	2,891.1	2,891.1	1,278.6	1,258.6	3,329.0	5,579.0	0.0	0.0	90.5	90.5	0.0	0.0	17,505.7	19,727.8
Colorado	3,249.5	3,249.5	2,538.0	2,568.1	639.0	639.0	4,340.0	4,440.0	0.0	0.0	166.4	166.4	0.0	0.0	10,932.9	11,063.0
Idaho	547.7	547.7	552.0	552.0	13.5	13.5	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,127.1	1,127.1
Montana	0.0	0.0	315.8	321.6	72.2	72.2	1,683.6	2,297.6	52.0	52.0	0.0	0.0	1.5	1.5	2,125.1	2,744.9
Nevada	5,445.0	5,445.0	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	7,821.6	7,821.6
New Mexico	1,471.7	1,465.0	957.0	956.9	847.7	846.4	2,640.0	2,640.0	0.0	0.0	48.0	48.0	0.0	0.0	5,964.4	5,956.3
Utah	1,830.0	1,830.0	536.3	534.2	328.2	328.2	4,581.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,303.3	7,374.2
Wyoming	94.0	94.0	153.6	153.6	10.9	12.9	6,403.0	6,406.0	0.0	0.0	5.8	5.8	102.0	102.0	6,769.3	6,774.3
Pacific Contiguous	26,365.9	25,852.8	11,990.0	12,099.0	5,448.0	6,958.4	1,982.0	1,982.0	20.0	17.0	469.8	471.4	221.4	221.4	46,497.1	47,602.0
California	20,358.3	19,834.3	11,136.8	11,245.8	5,192.0	6,702.4	57.0	57.0	20.0	17.0	454.6	456.2	221.4	221.4	37,440.1	38,534.1
Oregon	3,372.0	3,382.9	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,315.2	4,326.1
Washington	2,635.6	2,635.6	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	4,741.8	4,741.8
Pacific Noncontiguous	477.2	479.2	631.1	631.1	175.0	175.0	348.9	332.8	0.0	0.0	2,731.1	2,605.1	0.0	6.4	4,363.3	4,229.6
Alaska	477.2	479.2	631.1	631.1	175.0	175.0	168.9	152.8	0.0	0.0	739.8	733.2	0.0	0.0	2,192.0	2,171.3
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,991.3	1,871.9	0.0	6.4	2,171.3	2,058.3
U.S. Total	276,012.1	267,958.8	129,264.3	128,587.4	75,792.5	79,174.2	224,525.1	236,095.5	1,444.9	1,532.2	30,225.2	30,663.8	2,542.5	2,548.9	739,806.6	746,560.8

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, 2020

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	1	61012	AES Distributed Energy	IPP	AES Tonawanda Solar LLC	NY	63161	TNWDA	2.0	Solar Photovoltaic	SUN	PV
2020	1	63115	AZ Solar 1, LLC	IPP	OE_AZ1	AZ	63349	AZ1	32.5	Solar Photovoltaic	SUN	PV
2020	1	63049	Cannon Garden LLC	IPP	Cannon Garden Solar	MN	63252	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	1	63120	Cubera Solar, LLC	IPP	Cubera Solar, LLC	NC	63346	PGR06	2.0	Solar Photovoltaic	SUN	PV
2020	1	62801	DG Linden New Jersey LLC	IPP	DG Infineum	NJ	62958	INFNM	2.0	Solar Photovoltaic	SUN	PV
2020	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	153.0	Natural Gas Fired Combined Cycle	NG	CT
2020	1	61785	EDP Renewables North America LLC	IPP	Sun Streams, LLC	AZ	60827	GEN01	160.0	Solar Photovoltaic	SUN	PV
2020	1	60496	Enerparc Inc.	IPP	Brush Solar Center	OR	61844	BRUSH	2.8	Solar Photovoltaic	SUN	PV
2020	1	12685	Entergy Mississippi LLC	Electric Utility	Hinds Energy Facility	MS	55218	H04BS	36.4	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	6452	Florida Power & Light Co	Electric Utility	Babcock Preserve	FL	62634	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Blue Heron Solar	FL	62631	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Cattle Ranch	FL	62632	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Northern Preserve Solar	FL	62645	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Sweetbay Solar Center	FL	62394	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Twin Lakes	FL	62633	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	62856	Forefront Power, LLC	IPP	White CSG	MD	63085	15124	2.0	Solar Photovoltaic	SUN	PV
2020	1	61374	Foxtail Wind, LLC	Electric Utility	Foxtail Wind, LLC	ND	61747	1	150.0	Onshore Wind Turbine	WND	WT
2020	1	63114	GA Solar 3, LLC	IPP	OE_GA3	GA	63350	GA3	57.5	Solar Photovoltaic	SUN	PV
2020	1	62062	GD Richmond Buttonwoods I, LLC	IPP	GD Richmond Buttonwoods I, LLC	RI	62567	GDBUT	1.3	Solar Photovoltaic	SUN	PV
2020	1	62061	GD West Greenwich Victory I, LLC	IPP	GD West Greenwich Victory I, LLC	RI	62568	GDVIC	1.8	Solar Photovoltaic	SUN	PV
2020	1	61194	Generate Capital	IPP	Kelly Bridge Road Community Solar Farm	NY	62154	12	2.0	Solar Photovoltaic	SUN	PV
2020	1	61194	Generate Capital	IPP	Sacket Lake Rd #1 Community Solar Farm	NY	62158	11	2.0	Solar Photovoltaic	SUN	PV
2020	1	61728	GlidePath Power Operations LLC	IPP	Prospect Storage	TX	62753	BESS	9.9	Batteries	MWH	BA
2020	1	60025	Greenbacker Renewable Energy Corporation	IPP	Sol Phoenix	MD	62331	SOLPH	2.5	Solar Photovoltaic	SUN	PV
2020	1	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar Farm II	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV
2020	1	9417	Interstate Power and Light Co	Electric Utility	Whispering Willow North	IA	62079	1	201.3	Onshore Wind Turbine	WND	WT
2020	1	62838	LSE Dorado, LLC	IPP	Goose Pond Solar	MA	62992	GPNOR	2.0	Solar Photovoltaic	SUN	PV
2020	1	62838	LSE Dorado, LLC	IPP	Goose Pond Solar	MA	62992	GPSOU	2.0	Solar Photovoltaic	SUN	PV
2020	1	12341	MidAmerican Energy Co	Electric Utility	Palo Alto Wind Farm	IA	63053	PAWF	250.0	Onshore Wind Turbine	WND	WT
2020	1	61925	Middlesex-Yates Solar, LLC	IPP	Daum Solar	NY	62412	DAUM	4.0	Solar Photovoltaic	SUN	PV
2020	1	63048	Misae Lessee LLC	IPP	Misae Solar	TX	62249	77777	240.0	Solar Photovoltaic	SUN	PV
2020	1	56990	NJR Clean Energy Ventures Corporation	IPP	Franklin Solar	NJ	63149	FRANK	8.8	Solar Photovoltaic	SUN	PV
2020	1	56990	NJR Clean Energy Ventures Corporation	IPP	Pohatcong Solar Farm	NJ	63150	POHAT	8.0	Solar Photovoltaic	SUN	PV
2020	1	62796	Paulding Wind Farm IV LLC	IPP	Timber Road IV	OH	62944	TRIV	125.1	Onshore Wind Turbine	WND	WT
2020	1	62964	Prawer Community Solar LLC	IPP	Prawer Project CSG	MN	63176	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST
2020	1	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV
2020	1	62966	STAG St. Paul Community Solar LLC	IPP	STAG St. Paul Project CSG	MN	63178	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	Mtn. Solar 3 CSG	CO	63379	X0134	1.5	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Cheyenne Solar LLC CSG	MN	63145	CHYNE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Greenhouse Solar LLC CSG	MN	63143	GRHSE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Turkey Solar LLC CSG	MN	63148	TURKY	1.0	Solar Photovoltaic	SUN	PV
2020	1	62906	Syncarpha Questa I, LLC	IPP	Syncarpha Questa	NM	63125	SYNQU	1.6	Solar Photovoltaic	SUN	PV
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC10	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC6	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC7	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC8	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC9	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	20854	Winnebago County	Electric CHP	Winnebago County Landfill Gas	WI	50936	EG2R	0.6	Landfill Gas	LFG	IC
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1A	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1B	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1S	215.0	Natural Gas Fired Combined Cycle	NG	CA
2020	2	61608	Agilon Energy Holdings II, LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	61608	Agilon Energy Holdings II, LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	62627	Alchemy Renewable Energy	IPP	Duus Solar, LLC	OR	63330	ORDUS	10.0	Solar Photovoltaic	SUN	PV
2020	2	62627	Alchemy Renewable Energy	IPP	Firwood Solar, LLC	OR	63331	ORFWD	10.0	Solar Photovoltaic	SUN	PV
2020	2	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC
2020	2	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV
2020	2	60496	Enerparc Inc.	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV
2020	2	63143	Falls Creek Garden LLC	IPP	Falls Creek Garden	MN	63394	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	62856	Forefront Power, LLC	IPP	Howell CSG	NY	63107	1725	2.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

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	2	61194	Generate Capital	IPP	Boas Rd #4 Community Solar Farm	NY	62533	1023	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Burritt Rd Community Solar Farm	NY	62480	635	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Villa Roma Rd #1	NY	62525	40	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Villa Roma Rd #2	NY	62526	41	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Washington St Community Solar Farm #1	NY	62472	617	2.2	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Washington St Community Solar Farm #4	NY	62471	1034	2.5	Solar Photovoltaic	SUN	PV
2020	2	63228	Gohman Community Solar LLC	IPP	Gohman Community Solar	MN	63484	GOHMN	1.1	Solar Photovoltaic	SUN	PV
2020	2	62106	Hidalgo Wind Farm II LLC	IPP	Hidalgo Wind Farm II	TX	62618	WT	50.4	Onshore Wind Turbine	WND	WT
2020	2	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	61620	IOS II LLC	IPP	IOS II-LAX9	CA	63414	IOSII	3.7	Solar Photovoltaic	SUN	PV
2020	2	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	PV1	2.6	Solar Photovoltaic	SUN	PV
2020	2	49893	Invenergy Services LLC	IPP	Camilla Solar Energy Project	GA	61785	CAMSR	171.4	Solar Photovoltaic	SUN	PV
2020	2	63213	Jemez Cuba LLC	IPP	Alcalde Solar Array	NM	63477	SOLAR	2.4	Solar Photovoltaic	SUN	PV
2020	2	61957	Kearny Mesa Storage LLC	IPP	Kearny Mesa Storage LLC	CA	62441	U1	1.0	Batteries	MWH	BA
2020	2	63158	Loon Garden LLC	IPP	Loon Garden	MN	63397	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar One LLC CSG	MN	63380	52829	1.0	Solar Photovoltaic	SUN	PV
2020	2	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar Three LLC CSG	MN	63417	52831	1.0	Solar Photovoltaic	SUN	PV
2020	2	12341	MidAmerican Energy Co	Electric Utility	Arbor Hill Wind Farm	IA	62132	1	60.0	Onshore Wind Turbine	WND	WT
2020	2	62832	Novel Herber Solar LLC CSG	IPP	Novel Herber Solar CSG	MN	62966	HERB	1.0	Solar Photovoltaic	SUN	PV
2020	2	60531	Standard Solar	IPP	USS Midtown Solar LLC CSG	MN	63146	MDTWN	1.0	Solar Photovoltaic	SUN	PV
2020	2	63144	Star Garden LLC	IPP	Star Garden	MN	63395	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	63131	Strandness Garden LLC	IPP	Strandness Garden	MN	63367	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	18454	Tampa Electric Co	Electric Utility	Little Manatee River Solar	FL	62750	GEN1	74.5	Solar Photovoltaic	SUN	PV
2020	2	60947	Tesla Inc.	IPP	Walnut Unified School District Walnut HS	CA	63510	PV1	1.8	Solar Photovoltaic	SUN	PV
2020	2	60947	Tesla Inc.	IPP	Walnut Unified School District Walnut HS	CA	63510	ST1	0.5	Batteries	MWH	BA
2020	2	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST
2020	2	62701	Vista Solar, Inc.	IPP	Shelter Creek Condominiums Solar	CA	62806	SCC01	2.4	Solar Photovoltaic	SUN	PV
2020	2	57354	X-Elio North America Inc	IPP	Lily Solar	SC	63548	1	70.0	Solar Photovoltaic	SUN	PV
2020	3	60571	AEP Onsite Partners	IPP	Galesburg Solar Array	IL	63399	GWA01	1.4	Solar Photovoltaic	SUN	PV
2020	3	61012	AES Distributed Energy	IPP	Hurteau Solar Project	MA	63468	BATT	1.3	Batteries	MWH	BA
2020	3	61012	AES Distributed Energy	IPP	Hurteau Solar Project	MA	63468	HURTU	2.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 10 CSG	MN	63038	FS10	1.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 11 CSG	MN	63037	FS11	1.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 9 CSG	MN	63040	FS9	1.0	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT5	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT6	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT7	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	TRCK1	4.0	Solar Photovoltaic	SUN	PV
2020	3	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	150.0	Onshore Wind Turbine	WND	WT
2020	3	56953	Bos Dairy, LLC	Industrial	Bos Dairy, LLC	IN	57625	BOS4	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	3	63157	Buffalo Garden LLC	IPP	Buffalo Garden	MN	63396	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT
2020	3	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV
2020	3	63177	Chub Garden LLC	IPP	Chub Garden Solar	MN	63430	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC
2020	3	18488	City of Taunton	Electric Utility	Cleary Flood Hybrid	MA	1682	BS1	2.9	Batteries	MWH	BA
2020	3	56769	Consolidated Edison Development Inc.	IPP	Lakehurst Solar	NJ	63503	LAKHS	9.6	Solar Photovoltaic	SUN	PV
2020	3	63338	Crown Solar Center, LLC	IPP	Crown	SC	63635	CROWN	3.0	Solar Photovoltaic	SUN	PV
2020	3	6455	Duke Energy Florida, LLC	Electric Utility	Columbia Solar Power Plant	FL	61982	PV1	74.9	Solar Photovoltaic	SUN	PV
2020	3	56201	Engie North America	IPP	East Fork Wind Project, LLC	KS	62220	WTGS	195.8	Onshore Wind Turbine	WND	WT
2020	3	56201	Engie North America	IPP	Jumbo Hill Wind Project	TX	62630	WTGS1	160.7	Onshore Wind Turbine	WND	WT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA
2020	3	62856	Forefront Power, LLC	IPP	Fresno Bullard High School	CA	63420	903	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Bullard High School	CA	63420	BA903	0.4	Batteries	MWH	BA
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School	CA	63421	291	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School	CA	63421	BA291	0.2	Batteries	MWH	BA
2020	3	63339	Fort Rock Solar I, LLC	IPP	Fort Rock I	OR	63636	FR1	9.9	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	Blue Star	MD	62332	BLUES	7.5	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS CC, LLC	DC	63428	254	1.5	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS FE Trenton, LLC	NJ	63626	229	1.5	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

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	3	9417	Interstate Power and Light Co	Electric Utility	Golden Plains	IA	62081	1	199.8	Onshore Wind Turbine	WND	WT
2020	3	62085	Mesquite Star LLC	IPP	Mesquite Star	TX	62587	MESQ	418.9	Onshore Wind Turbine	WND	WT
2020	3	63175	Mud Garden LLC	IPP	Mud Garden Solar	MN	63427	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	63185	Neighborhood Power Corp.	IPP	St Louis Solar	OR	63456	W9319	2.2	Solar Photovoltaic	SUN	PV
2020	3	62837	Novel DeCook Solar LLC CSG	IPP	Novel DeCook Solar CSG	MN	62979	DECO	1.0	Solar Photovoltaic	SUN	PV
2020	3	61758	Prevailing Wind Park, LLC	IPP	Prevailing Wind Park	SD	62247	PWPSD	220.0	Onshore Wind Turbine	WND	WT
2020	3	63187	Rush Springs Energy Storage	IPP	Rush Springs Energy Storage (BA)	OK	63458	RUSHE	10.0	Batteries	MWH	BA
2020	3	60163	Soltage LLC	IPP	Ace Solar	SC	61937	18	1.0	Solar Photovoltaic	SUN	PV
2020	3	62971	South Energy Investments LLC	IPP	South Windsor Fuel Cell	CT	63302	SWFC5	5.0	Other Natural Gas	NG	FC
2020	3	60531	Standard Solar	IPP	NY 26 Carthage CSG	NY	63224	X0140	5.0	Solar Photovoltaic	SUN	PV
2020	3	63171	Straight Garden LLC	IPP	Straight Garden Solar	MN	63424	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC1	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC2	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC3	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC4	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC5	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	62103	Whitney Hill Wind Power LLC	IPP	Whitney Hill Wind Power LLC	IL	62606	WTHWP	65.0	Onshore Wind Turbine	WND	WT
2020	4	59496	Allete Clean Energy	IPP	South Peak Wind	MT	62939	41001	80.0	Onshore Wind Turbine	WND	WT
2020	4	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT
2020	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC5	18.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU1	11.3	Natural Gas Internal Combustion Engine	NG	IC
2020	4	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU2	11.3	Natural Gas Internal Combustion Engine	NG	IC
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U004	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U005	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U006	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	61060	Cypress Creek Renewables	IPP	Huntley	SC	63271	1295	75.0	Solar Photovoltaic	SUN	PV
2020	4	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA
2020	4	58135	Ecos Energy LLC	IPP	Plainfield Solar 2	CT	63263	PLFD2	1.0	Solar Photovoltaic	SUN	PV
2020	4	63176	Erin Garden LLC	IPP	Erin Garden Solar	MN	63429	CSG	1.0	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Echo River Solar	FL	62490	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Hibiscus Solar Energy Center	FL	62206	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Okeechobee Solar	FL	62491	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Southfork Solar	FL	62493	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	61944	GSRP	IPP	Chevron - Lost Hills	CA	63545	GEN1	30.0	Solar Photovoltaic	SUN	PV
2020	4	61194	Generate Capital	IPP	Washington St Community Solar Farm #3	NY	62473	1035	2.5	Solar Photovoltaic	SUN	PV
2020	4	63399	Hertzberg Community Solar	IPP	Hertzberg Community (CSG)	MN	63680	HERTZ	1.0	Solar Photovoltaic	SUN	PV
2020	4	63398	Laurel Village Community Solar LLC	IPP	Laurel Village (CSG)	MN	63679	LAUR	1.0	Solar Photovoltaic	SUN	PV
2020	4	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Johnson Corner Solar 1	KS	62993	KSJC1	20.0	Solar Photovoltaic	SUN	PV
2020	4	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar Two LLC	MN	63533	52830	1.0	Solar Photovoltaic	SUN	PV
2020	4	62863	Novel Bartel Solar LLC CSG	IPP	Novel Bartel Solar CSG	MN	63004	BART	1.0	Solar Photovoltaic	SUN	PV
2020	4	62833	Novel Herickhoff Solar LLC CSG	IPP	Novel Herickhoff Solar CSG	MN	62967	HERIC	1.0	Solar Photovoltaic	SUN	PV
2020	4	62009	Palmer Solar LLC	IPP	Palmer Solar	CO	62495	20181	60.0	Solar Photovoltaic	SUN	PV
2020	4	63397	Paulson Community Solar LLC	IPP	Paulson Community (CSG)	MN	63678	PAUL	1.0	Solar Photovoltaic	SUN	PV
2020	4	16380	RTC Properties Inc	Commercial	River Terminal Development Solar	NJ	60843	RTD6	0.2	Solar Photovoltaic	SUN	PV
2020	4	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA
2020	4	63357	Sheriff Rd Solar LLC	IPP	Sheriff Road	MD	63654	SHRFF	1.1	Solar Photovoltaic	SUN	PV
2020	4	18454	Tampa Electric Co	Electric Utility	Wimauma Solar	FL	61667	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	63173	Zumbro Garden LLC	IPP	Zumbro Solar Garden	MN	63426	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	61012	AES Distributed Energy	IPP	Beals Medina Solar LLC CSG	NY	63130	BEALS	3.5	Solar Photovoltaic	SUN	PV
2020	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLSL3	136.8	Solar Photovoltaic	SUN	PV
2020	5	63205	Brush Creek Solar, LLC	IPP	Brush Creek Solar	OR	63464	PGR19	2.2	Solar Photovoltaic	SUN	PV
2020	5	62900	Caden Energix Rives Road LLC	IPP	Caden Energix Rives Road LLC	VA	63087	ENX01	19.7	Solar Photovoltaic	SUN	PV
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V110	22.0	Onshore Wind Turbine	WND	WT
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V120	220.0	Onshore Wind Turbine	WND	WT
2020	5	56769	Consolidated Edison Development Inc.	IPP	CED Mason City Wind	IA	63521	MCW1	7.5	Onshore Wind Turbine	WND	WT
2020	5	60370	DG AMP Solar, LLC	IPP	DG AMP Rittman Rd	OH	62941	AMPRR	2.6	Solar Photovoltaic	SUN	PV
2020	5	5109	DTE Electric Company	Electric Utility	Polaris Wind Park	MI	62290	1	168.6	Onshore Wind Turbine	WND	WT
2020	5	63207	Drift Creek Solar, LLC	IPP	Drift Creek Solar	OR	63466	PGR18	2.2	Solar Photovoltaic	SUN	PV
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Debary Solar Power Plant	FL	62542	PV1	74.5	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

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	5	60496	Enerparc Inc.	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV
2020	5	60496	Enerparc Inc.	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV
2020	5	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	62759	Geronimo Energy	IPP	Hydra Community Solar Garden, LLC (CSG)	MN	63629	HYDRA	1.0	Solar Photovoltaic	SUN	PV
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	268.5	Natural Gas Fired Combined Cycle	NG	CT
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	268.5	Natural Gas Fired Combined Cycle	NG	CT
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA
2020	5	49893	Invenergy Services LLC	IPP	Beech Ridge II Wind Energy Center	WV	62482	GEN1	56.2	Onshore Wind Turbine	WND	WT
2020	5	63172	Leven Garden LLC	IPP	Leven Garden Solar	MN	63425	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	63174	Maston Garden LLC	IPP	Maston Garden Solar	MN	63434	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN16	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	5	56990	NJR Clean Energy Ventures Corporation	IPP	Campus Drive Solar	NJ	63334	CAMPS	3.7	Solar Photovoltaic	SUN	PV
2020	5	62849	Novel Byron Solar LLC CSG	IPP	Novel Byron Solar CSG	MN	62985	BYRN	1.0	Solar Photovoltaic	SUN	PV
2020	5	63183	Oxy Renewable Energy LLC	IPP	Oxy Renewable Energy - Goldsmith	TX	63388	SOLAR	16.8	Solar Photovoltaic	SUN	PV
2020	5	63189	Rock County Wind Fuel, LLC	IPP	Rock County Wind Fuel, LLC	MN	63460	RCWF	5.0	Onshore Wind Turbine	WND	WT
2020	5	63074	Scout Clean Energy LLC	IPP	Heart of Texas Wind Project	TX	61032	HTX	180.0	Onshore Wind Turbine	WND	WT
2020	5	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Industries (2042-RD)	CA	63416	GEN1	8.4	Solar Photovoltaic	SUN	PV
2020	5	17650	Southern Power Co	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT
2020	5	60970	SunShare Management	IPP	Linden 01 CSG	MN	63179	KANE1	1.0	Solar Photovoltaic	SUN	PV
2020	5	60970	SunShare Management	IPP	Linden 02 CSG	MN	63182	LIND2	1.0	Solar Photovoltaic	SUN	PV
2020	5	60970	SunShare Management	IPP	Linden 03 CSG	MN	63183	LIND3	1.0	Solar Photovoltaic	SUN	PV
2020	5	62822	Syncarpha Blandford, LLC	IPP	Syncarpha Blandford Hybrid CSG	MA	62975	SYBLB	3.9	Batteries	MWH	BA
2020	5	62905	Syncarpha Taos I, LLC	IPP	Syncarpha Taos	NM	63123	SYNTA	3.1	Solar Photovoltaic	SUN	PV
2020	5	62828	TWE Bowman Solar Project, LLC	IPP	TWE Bowman Solar Project	SC	62828	BOW	73.1	Solar Photovoltaic	SUN	PV
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA

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, 2020

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	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2020	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2020	1	9155	Inland Empire Energy Ctr LLC	IPP	Inland Empire Energy Center	CA	55853	1	345.0	Natural Gas Fired Combined Cycle	NG	CS
2020	1	9155	Inland Empire Energy Ctr LLC	IPP	Inland Empire Energy Center	CA	55853	2	345.0	Natural Gas Fired Combined Cycle	NG	CS
2020	1	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2020	1	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	ST
2020	1	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	3	971.0	Conventional Steam Coal	BIT	ST
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd I	CA	54681	EXIS	7.3	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd II	CA	54682	EXIS	5.4	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd V	CA	54685	EXIS	11.6	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Terra-Gen 251 Wind LLC	CA	52161	WGNS	18.4	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Victory Garden Phase IV LLC	CA	52160	WGNS	22.0	Onshore Wind Turbine	WND	WT
2020	2	57463	Kimberly-Clark Worldwide Inc	Industrial	Fullerton Mill CHP	CA	58083	GTG1	12.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	57463	Kimberly-Clark Worldwide Inc	Industrial	Fullerton Mill CHP	CA	58083	STG1	1.0	Natural Gas Fired Combined Cycle	NG	CA
2020	2	2770	Terra-Gen Operating Co-Wind	IPP	Dutch Wind Energy	CA	57301	DEC	8.0	Onshore Wind Turbine	WND	WT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT5	14.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT6	15.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT7	14.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT8	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	1	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	10	49.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	2	48.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	4	48.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	6	43.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	7	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	8	44.0	Petroleum Liquids	DFO	GT
2020	3	5860	Empire District Electric Co	Electric Utility	Asbury	MO	2076	1	198.0	Conventional Steam Coal	SUB	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN5	8.5	Natural Gas Steam Turbine	NG	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN6	8.5	Natural Gas Steam Turbine	NG	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN7	6.8	Natural Gas Steam Turbine	NG	ST
2020	3	56046	High Plains Wind Power LLC	IPP	High Plains	TX	56834	1	10.0	Onshore Wind Turbine	WND	WT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	CTG1	33.1	Natural Gas Fired Combined Cycle	NG	CT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	CTG2	33.6	Natural Gas Fired Combined Cycle	NG	CT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	STG	20.0	Natural Gas Fired Combined Cycle	NG	CA
2020	3	22129	Somerset Operating Co LLC	IPP	Somerset Operating Co LLC	NY	6082	1	685.9	Conventional Steam Coal	BIT	ST
2020	3	2770	Terra-Gen Operating Co-Wind	IPP	Windland	CA	50386	WING	15.3	Onshore Wind Turbine	WND	WT
2020	4	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,016.1	Nuclear	NUC	ST
2020	5	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2020	5	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT1	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT2	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT3	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT4	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT5	1.4	Landfill Gas	LFG	IC
2020	5	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	1	137.0	Conventional Steam Coal	BIT	ST
2020	5	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	2	262.8	Conventional Steam Coal	BIT	ST
2020	5	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#1	1.0	Other Waste Biomass	OBG	IC
2020	5	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#2	1.0	Other Waste Biomass	OBG	IC
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	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENA	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENB	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENC	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GEND	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	9379	Inter-Power/AhlCon Partners, L.P.	IPP	Colver Power Project	PA	10143	COLV	110.0	Conventional Steam Coal	WC	ST
2020	5	57172	SC Landfill Energy LLC	IPP	SC Landfill Energy LLC	NJ	57843	GEN1	1.8	Landfill Gas	LFG	IC
2020	5	57174	SX Landfill Energy LLC	IPP	SX Landfill Energy LLC	NJ	57846	UNIT1	1.5	Landfill Gas	LFG	IC
2020	5	57174	SX Landfill Energy LLC	IPP	SX Landfill Energy LLC	NJ	57846	UNIT2	1.5	Landfill Gas	LFG	IC
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	2	31.0	Natural Gas Steam Turbine	NG	ST

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

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	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	3	25.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lieberman	LA	1417	2	26.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lone Star	TX	3477	1	50.0	Natural Gas Steam Turbine	NG	ST
2020	5	17897	St Mary's Hospital	Commercial	Saint Marys Hospital Power Plant	MN	54262	6	2.7	Natural Gas Internal Combustion Engine	NG	IC

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)
2020	6	61524	226HC 8me LLC	IPP	Holstein 1 Solar Farm	TX	61962	HSF01	200.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	200.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2020	6	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC	MA	63011	CRONI	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project	MA	63472	BATT	1.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.3
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project	MA	63472	CYCZ	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	61012	AES Distributed Energy	IPP	Finchville Solar, LLC	NY	62999	FINCH	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	6	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project	MA	63470	BATT	2.9	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.9
2020	6	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project	MA	63470	MCDMT	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2020	6	61012	AES Distributed Energy	IPP	Partridge Hill Solar	MA	63264	PART3	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project	MA	63435	BATT	1.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.3
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project	MA	63435	PRTDG	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	61012	AES Distributed Energy	IPP	Ryan Road Solar LLC	MA	63044	ORCHA	4.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.3
2020	6	61012	AES Distributed Energy	IPP	W. Orange Rd Solar LLC	MA	63047	HEYES	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	6	63019	AGA TAG Solar III LLC	IPP	AGA TAG Solar III LLC	SC	63243	SCAG	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	6	57416	Acciona Energy USA Global, LLC	IPP	Palmas Wind, LLC	TX	61773	PW	142.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	144.9
2020	6	63468	Alkali Solar, LLC	IPP	Alkali Solar, LLC	OR	63795	2	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2020	6	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX02	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	6	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX03	12.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	12.0
2020	6	62834	Caden Energix Pamplin LLC	IPP	Caden Energix Pamplin LLC	VA	63083	ENX04	15.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.7
2020	6	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	GT2	115.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	135.0
2020	6	63260	Cobb Electric Membership Corporation	IPP	Solar BESS Hybrid	GA	63535	SOLAR	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2020	6	63260	Cobb Electric Membership Corporation	IPP	Solar BESS Hybrid	GA	63535	TEST	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	56769	Consolidated Edison Development Inc.	IPP	CED Crane Solar	TX	63519	CRN1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2020	6	62803	Cove Mountain Solar 2 LLC	IPP	Cove Mountain Solar 2	UT	62470	GEN01	122.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	122.0
2020	6	61060	Cypress Creek Renewables	IPP	Wagyu	TX	63273	1215	120.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	120.0
2020	6	5248	Dominion Energy Inc	Electric Utility	Myrtle Solar	VA	63746	MYSO	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2020	6	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville-Rock Hill Battery	NC	63064	ES1	8.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	8.8
2020	6	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	62852	ESA Hamlet NC LLC	IPP	ESA Hamlet NC , LLC	NC	63377	PGR10	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	8.9
2020	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	8.9
2020	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	8.9
2020	6	58135	Ecos Energy LLC	IPP	Dickinson Solar (CT)	CT	63245	DCKN	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	58135	Ecos Energy LLC	IPP	Sydney Solar	CT	63244	SYDN	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	60496	Enerparc Inc.	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	6	63081	Exus North America Management Partners LLC	IPP	Bearkat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	162.1
2020	6	62856	Forefront Power, LLC	IPP	DGS Wasco State Prison	CA	63418	1122	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2020	6	62856	Forefront Power, LLC	IPP	Reed Road Solar	IL	63071	1822	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2020	6	61873	GA Solar 4	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2020	6	61944	GSRP	IPP	Lafayette 2 - Internal Services Dept	CA	63527	GEN1	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2020	6	61944	GSRP	IPP	Lafayette 2 - MLK Jr. Hospital (MLK)	CA	63623	GEN1	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	6	60025	Greenbacker Renewable Energy Corporation	IPP	Renew Solar ABC Sacramento LLC	CA	62545	SACRA	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	6	63292	Harmony Florida Solar LLC	IPP	Harmony Solar	FL	63582	HFS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	6	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO2	50.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	50.0
2020	6	63470	Illinois PV Fulton 1, LLC	IPP	Illinois PV Fulton 1	IL	63790	FULT	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville Solar Park 4	IN	62776	SCRA4	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Gas City Solar Park	IN	62767	SGASC	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Scottsburg Solar Park	IN	62766	SCCOT	7.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	7.1
2020	6	61219	Longroad Energy Services LLC	IPP	Prospero Solar	TX	62755	PROSP	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2020	6	63001	MN CSG 2, LLC	IPP	Woodbury Solar	MN	63231	PV	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	6	62915	Madison Energy Holdings LLC	IPP	Houston/Winona Community Solar One LLC	MN	63534	52827	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	6	62915	Madison Energy Holdings LLC	IPP	Winona Community Solar One LLC	MN	63532	52837	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	6	63471	NES Olympos	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	6	63185	Neighborhood Power Corp.	IPP	Dunn Road Solar	OR	63642	W9736	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2020	6	62864	Novel Haley Solar LLC CSG	IPP	Novel Haley Solar CSG	MN	63005	HALY	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	62847	Novel Pederson Solar LLC CSG	IPP	Novel Pederson Solar CSG	MN	62983	PED	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L1	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L2	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L3	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T1	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T2	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T3	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	62788	Oberon Solar IA	IPP	Oberon IA	TX	62933	OBR1A	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	6	62789	Oberon Solar IB	IPP	Oberon IB	TX	62932	OBR1B	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2020	6	56215	RWE Renewables Americas LLC	IPP	Peyton Creek Wind Farm LLC	TX	62417	WT1	220.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	220.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82059	124.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	124.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82060	79.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82061	23.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	23.0
2020	6	62113	Sage Draw Wind, LLC	IPP	Sage Draw Wind	TX	62620	SD	338.4	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	338.4
2020	6	60531	Standard Solar	IPP	USS B&B Solar LLC CSG	MN	63216	BB	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Chariot Solar LLC	MN	63171	CHROT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Mayhew Solar LLC CSG	MN	63144	MAYHW	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Milkweed Solar LLC CSG	MN	63142	MLKWD	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Monarch Solar LLC CSG	MN	63147	MNRCH	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Sunrise Solar LLC CSG	MN	63141	SNRSE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Westeros Solar LLC CSG	MN	63140	USSWS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	63290	Taylor Creek Solar LLC	IPP	Taylor Creek Solar	FL	63583	TCS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	6	61980	Valta Energy	IPP	Mauka FIT One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2020	6	63469	West Hines Solar I, LLC	IPP	West Hines Solar I, LLC	OR	63796	1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2020	6	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-10	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2020	6	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-9	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2020	7	61012	AES Distributed Energy	IPP	Allis Medina Solar LLC	NY	63129	ALLIS	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0

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	7	61012	AES Distributed Energy	IPP	Lane Ave Solar LLC	MA	63041	HANRA	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2020	7	61012	AES Distributed Energy	IPP	Randall Solar Project	MA	63475	BATT	3.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.3
2020	7	61012	AES Distributed Energy	IPP	Randall Solar Project	MA	63475	RAND	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	7	61012	AES Distributed Energy	IPP	Wilbur Woods Solar LLC	MA	63048	DESMO	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	7	59613	BayWa r.e. Solar Projects LLC	IPP	Fern Solar LLC	NC	62798	FERN	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	7	63380	Brenda Luhman Community Solar LLC	IPP	Brenda Luhman - CSG	MN	63682	BLCS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	7	62772	CA ODEVI LLC	IPP	Windsor Floating Solar	CA	62902	WUS15	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	7	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN8	9.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	10.5
2020	7	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	1	2.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2020	7	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	2	2.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2020	7	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC1	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2020	7	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC2	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2020	7	56769	Consolidated Edison Development Inc.	IPP	CED Champaign Solar LLC	IL	62681	CSIL	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2020	7	62800	DG Edison New Jersey LLC	IPP	DG Iron Mountain	NJ	62957	IRNMT	5.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.4
2020	7	15470	Duke Energy Indiana, LLC	Electric Utility	Nabb Battery Energy Storage System	IN	62862	ES1	5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	5.0
2020	7	61420	ENGIE Storage Services NA LLC	Commercial	San Diego International Airport BESS	CA	62754	BA	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2020	7	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	62856	Forefront Power, LLC	IPP	Square Barn Solar	IL	63070	1820	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	7	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	102.0
2020	7	63406	Freight Line Solar, LLC	IPP	Freight Line Solar, LLC	NC	63693	13503	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	7140	Georgia Power Co	Electric Utility	Kings Bay Solar Facility	GA	59864	BESS	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2020	7	7140	Georgia Power Co	Electric Utility	Moody Air Force Base Solar	GA	62377	1	49.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.5
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	BESS1	0.2	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	0.2
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	DG1	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	FC1	0.2	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	0.2
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	NGE1	0.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.2
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	NGE2	0.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.2
2020	7	63400	Hammer Community Solar LLC	IPP	Hammer Community (CSG)	MN	63684	HAMR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	7	60719	Harvest Ridge Wind Farm	IPP	Broadlands Wind Farm	IL	61161	GEN01	202.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	202.0
2020	7	62638	Helen Solar LLC	IPP	Helen Solar CSG	MN	62706	SC	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2020	7	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO	449.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	449.5
2020	7	63408	Holly Swamp Solar, LLC	IPP	Holly Swamp Solar, LLC	NC	63695	13502	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	9234	Indiana Municipal Power Agency	Electric Utility	Tell City Solar Park	IN	62790	STEL2	3.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.2
2020	7	61251	LA3 West Baton Rouge, L.L.C.	IPP	LA3 West Baton Rouge Solar Facility	LA	61646	LA3WB	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	7	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 3	PA	62991	PAWT3	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	7	62915	Madison Energy Holdings LLC	IPP	Nicollet Community Solar One LLC	MN	63120	52828	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	7	11479	Madison Gas & Electric Co	Electric Utility	Middleton Airport Solar	WI	62731	1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	7	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	7	62640	Northfield Solar LLC	IPP	Northfield Solar CSG	MN	62708	SC	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	7	62866	Novel MNDot Solar LLC CSG	IPP	Novel MNDot Solar CSG	MN	63007	MNDT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Chickasaw Nation Solar Farm	OK	63500	CVS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Choctaw Nation Solar Farm	OK	63499	CVS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	7	63405	PG Solar, LLC	IPP	PG Solar, LLC	NC	63692	13504	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	61678	RE Rambler LLC	IPP	Rambler	TX	62141	RMBLR	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	7	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR1	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2020	7	63460	Rock Garden, LLC	IPP	Rock Garden Solar, LLC	OR	63779	4	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	61677	Sol Systems	IPP	Ruff Solar LLC	NC	62594	11625	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	22.0
2020	7	17650	Southern Power Co	IPP	Skookumchuck Wind Facility	WA	63205	1	136.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	136.0
2020	7	60531	Standard Solar	IPP	USS Christoffer Solar LLC CSG	MN	63152	CHRST	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	7	60531	Standard Solar	IPP	USS Solar Sources LLC CSG	MN	63151	SOURC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	7	63459	Suntex Solar, LLC	IPP	Suntex Solar, LLC	OR	63778	3	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	7	62637	Walcott Solar LLC	IPP	Walcott Solar CSG	MN	62707	SC	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	7	62641	Warsaw Solar LLC	IPP	Warsaw Solar CSG	MN	62709	SC	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2020	8	60281	Altus Power America Management, LLC	IPP	FastSun 19 CSG	MN	63033	FS19	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	8	60281	Altus Power America Management, LLC	IPP	FastSun 2 CSG	MN	62696	FS2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	8	62993	Aviator Wind, LLC	IPP	Aviator Wind	TX	63209	AVTOR	525.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	525.0
2020	8	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar	CO	63722	BA1	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2020	8	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar	CO	63722	PV1	22.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.0
2020	8	63381	Carlson Community Solar	IPP	Carlson Community (CSG)	MN	63683	CRLSN	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	63072	Cerro Gordo Wind Farm	IPP	Cerro Gordo Wind Farm	IA	63287	CGWF	42.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	42.0
2020	8	1515	City of Bellevue - (IA)	Electric Utility	Bellevue	IA	1126	1A	1.7	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.8
2020	8	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	8	58970	Ecoplexus, Inc	IPP	HWY 158 PV	NC	63566	HW158	9.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.0
2020	8	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School	CA	63422	1122	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	8	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School	CA	63422	BA112	0.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.3
2020	8	62856	Forefront Power, LLC	IPP	Harmony Road Solar	IL	63069	1823	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2020	8	62856	Forefront Power, LLC	IPP	Mooseheart School Solar	IL	63073	1817	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	8	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	102.0
2020	8	60025	Greenbacker Renewable Energy Corporation	IPP	Solar Hagerstown	MD	62912	137	7.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2020	8	49893	Invenergy Services LLC	IPP	Millican Solar Energy LLC	OR	63050	GEN1	71.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.4
2020	8	49893	Invenergy Services LLC	IPP	Prineville Solar Energy LLC	OR	63049	GEN1	46.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	46.2
2020	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 2	PA	62990	PAWT2	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	8	61219	Longroad Energy Services LLC	IPP	El Campo Wind	TX	62765	CAMPO	242.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	242.8
2020	8	62915	Madison Energy Holdings LLC	IPP	Sobania Community Solar LLC	MN	63791	SOB01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	62915	Madison Energy Holdings LLC	IPP	Stevens Community Solar LLC	MN	63794	ST001	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	62915	Madison Energy Holdings LLC	IPP	Studenski Community Solar LLC	MN	63793	STU01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	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)
2020	8	62915	Madison Energy Holdings LLC	IPP	Svihel Community Solar LLC	MN	63792	SVH01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	63471	NES Olympos	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2020	8	63471	NES Olympos	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	8	63461	NY- CSG- Johnstown 2	IPP	NY- CSG- Johnstown 2	NY	63780	JOHN2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	8	63462	NY- CSG- Livingston 4	IPP	NY- CSG- Livingston 4	NY	63781	LIV4	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	8	63185	Neighborhood Power Corp.	IPP	Mt Hope Solar	OR	63663	W0053	2.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.5
2020	8	63185	Neighborhood Power Corp.	IPP	River Valley Solar	OR	63665	W0054	1.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.9
2020	8	63185	Neighborhood Power Corp.	IPP	Williams Acres Solar	OR	63664	W0055	2.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.5
2020	8	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CCHEG	1.5	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2020	8	62869	Novel Benedix Solar LLC CSG	IPP	Novel Benedix Solar CSG	MN	63010	BNDX	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62848	Novel Jewison Solar LLC CSG	IPP	Novel Jewison Solar CSG	MN	62984	JEWI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62850	Novel Kanewischer Solar LLC CSG	IPP	Novel Kanewischer Solar CSG	MN	62986	KANE	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	8	62846	Novel Schmoll Farms Solar LLC CSG	IPP	Novel Schmoll Farms Solar CSG	MN	62982	SCHM	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	62867	Novel Winegar Partnership Solar CSG	IPP	Novel Winegar Partnership Solar CSG	MN	63008	WINE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	62633	Plum Creek Wind, LLC	IPP	Plum Creek Wind Project (NE)	NE	62711	PLUM	230.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	230.0
2020	8	56215	RWE Renewables Americas LLC	IPP	Cranell Wind Farm LLC	TX	62416	WT1	220.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	220.0
2020	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
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	60531	Standard Solar	IPP	Town of Burrillville Solar	RI	62898	X0042	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.2
2020	8	60531	Standard Solar	IPP	USS Cougar Solar LLC CSG	MN	63158	COUGR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Flower Solar LLC CSG	MN	63159	FLOWR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Horne North Solar LLC CSG	MN	63154	HORNN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Horne South Solar LLC CSG	MN	63155	HORNS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS JJ Clay Solar LLC CSG	MN	63156	JJCLY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Verde Solar LLC CSG	MN	63157	VERDE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAS	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	8	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOS	3.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.6
2020	8	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
2020	8	62946	USS All In Solar LLC	IPP	USS All In Solar LLC CSG	MN	63160	ALLIN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62954	USS Bush Solar LLC	IPP	USS Bush Solar LLC CSG	MN	63166	BUSH	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62955	USS Hancock Solar	IPP	USS Hancock Solar LLC CSG	MN	63167	HNCCK	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62956	USS Pheasant Solar LLC	IPP	USS Pheasant Solar LLC	MN	63168	PHSNT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62953	USS Reindeer Solar LLC	IPP	USS Reindeer Solar LLC CSG	MN	63165	RENDR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62701	Vista Solar, Inc.	IPP	Hopkinton Phase 2	RI	63191	HTP2	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2020	8	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.4
2020	9	61012	AES Distributed Energy	IPP	Greenwich Solar 1, LLC	NY	63411	RTE40	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	9	62747	Acorn I Energy Storage LLC	IPP	Acorn I Energy Storage LLC	CA	62874	ACOR1	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	9	59474	BQ Energy LLC	IPP	Yeoman Creek	IL	61910	YEOM	8.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.8
2020	9	63373	Bitter Ridge Wind Farm, LLC	IPP	Bitter Ridge Wind Farm, LLC	IN	63666	BIT	130.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	130.0
2020	9	63487	Bronco Plains Wind, LLC	IPP	Bronco Plains Wind, LLC	CO	63803	WBOPL	299.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2020	9	63407	Butler Solar, LLC	IPP	Butler Solar, LLC	OR	63694	13501	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	9	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFS	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2020	9	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFW	4.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	4.6
2020	9	5109	DTE Electric Company	Electric Utility	Fairbanks Wind Park	MI	63600	1	72.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.5
2020	9	61610	Delaware River Solar, LLC	IPP	Route 22 Community Solar Farm	NY	62524	1444	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2020	9	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #1 Community Solar Farm	NY	62517	1142	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	9	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #2 Community Solar Farm	NY	62518	1181	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	9	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #3 Community Solar Farm	NY	62519	1244	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	9	5248	Dominion Energy Inc	Electric Utility	Grasshopper Solar	VA	62813	GRHS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2020	9	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
2020	9	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2020	9	62856	Forefront Power, LLC	IPP	UC Santa Cruz Solar	CA	63091	246	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	9	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	40.0
2020	9	62720	Frontier Windpower II, LLC	IPP	Frontier Windpower II	OK	62837	FW2	351.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	351.8
2020	9	62759	Geronimo Energy	IPP	Aster Community Solar Garden, LLC	MN	63305	ASTER	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Geranium Solar, LLC	MN	63317	GERNM	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Hyacinth Solar, LLC	MN	63312	HYCIN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Iris Solar, LLC (MN)	MN	63319	IRIS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Kerria Solar, LLC	MN	63315	KERIA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Primrose Solar, LLC	MN	63314	PROSE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62696	Gichi Noodin Wind Farm, LLC	IPP	Gichi Noodin Wind Farm	MI	62815	GNWF1	72.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.8
2020	9	9191	Idaho Power Co	Electric Utility	Shoshone Falls	ID	818	4	3.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	3.2
2020	9	9234	Indiana Municipal Power Agency	Electric Utility	Centerville Solar Park	IN	62794	SCENT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville 5 Solar Park	IN	62793	SCRA5	9.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.7
2020	9	9417	Interstate Power and Light Co	Electric Utility	Richland	IA	62080	1	130.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	130.1
2020	9	63289	Key Capture Energy	IPP	NY3 Battery	NY	63585	NY3	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	9	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	6	14.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	17.3
2020	9	62897	MSB Investors, LLC	Electric CHP	ReSource Center	CA	63094	SBAD1	1.1	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.1
2020	9	62897	MSB Investors, LLC	Electric CHP	ReSource Center	CA	63094	SBAD2	1.1	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.1
2020	9	62915	Madison Energy Holdings LLC	IPP	Hinterland CSG, LLC	MN	63817	HIN01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62726	Mountain Breeze Wind, LLC	IPP	Mountain Breeze Wind, LLC	CO	62840	MTBRZ	170.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	170.0
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	ACCP NJ 1	NJ	63198	ACCP1	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	Monroe Solar Farm, LLC	NJ	63451	MONR1	13.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.1
2020	9	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES01	1.3	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.3
2020	9	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES02	1.3	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.3
2020	9	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2020	9	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC2	82.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	82.2
2020	9	61592	Pleinmont Solar 1 LLC	IPP	Pleinmont Solar 1	VA	62012	PLNM1	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	9	15466	Public Service Co of Colorado	Electric Utility	Cheyenne Ridge Wind Farm	CO	62952	CRW01	488.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	498.4
2020	9	63449	Renewable Properties, LLC	IPP	Ballenger Road Solar A	SC	63759	BALGR	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2020	9	63449	Renewable Properties, LLC	IPP	Soscol Ferry Solar	CA	63761	SSCLC	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)
2020	9	63449	Renewable Properties, LLC	IPP	Soscol Ferry Solar	CA	63761	SSCLD	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	9	63449	Renewable Properties, LLC	IPP	White Horse Solar A	SC	63760	WHRSA	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2020	9	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2020	9	61634	SR Terrell, LLC	IPP	SR Terrell	GA	62058	TERRL	74.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.0
2020	9	62844	Spring Hope Solar 3, LLC	IPP	Spring Hope Solar 3, LLC	NC	62997	PGR09	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2020	9	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	9	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOB	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	9	62825	Syncarpha Northbridge II, LLC	IPP	Syncarpha Northbridge II Hybrid	MA	62978	SYN2S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	9	62044	TG High Prairie Wind, LLC	IPP	High Prairie Wind Farm	MO	62563	HPWF	400.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	400.0
2020	9	61534	Techren Solar III LLC	IPP	Techren Solar III LLC	NV	61931	TECH3	25.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	9	61535	Techren Solar IV LLC	IPP	Techren Solar IV LLC	NV	61932	TECH4	25.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	9	61890	Tenaska Nobles 2 Power Partners, LLC	IPP	Nobles 2 Wind Project	MN	62364	WT1	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	9	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW24	33.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.8
2020	9	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW45	216.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	216.0
2020	9	62701	Vista Solar, Inc.	IPP	Bio-Rad	CA	63189	BIORD	2.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2020	9	63490	Williamsville Road LLC	IPP	Williamsville	MA	63805	WIL	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	10	63186	1001 Ebenezer Church Solar, LLC	IPP	1001 Ebenezer Church Solar	NC	63444	1001	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	10	63193	1045 Tomlin Mill Solar, LLC	IPP	1045 Tomlin Mill Solar	NC	63448	1045	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	10	63191	1073 Onslow Solar, LLC	IPP	1073 Onslow Solar	NC	63446	1073	4.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.7
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC	NY	63415	BATT	1.6	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC	NY	63415	CENTR	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage	NY	63774	KRS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	10	59474	BQ Energy LLC	IPP	West Valley East	NY	62738	WVE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	10	59474	BQ Energy LLC	IPP	West Valley West	NY	62737	WVW	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	10	63208	Bighorn Solar, LLC	IPP	Bighorn Solar	OR	63467	PGR16	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	10	2265	Bristol-Myers Squibb Co	IPP	Bristol Myers Squibb Lawrenceville	NJ	58947	TG102	5.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.4
2020	10	63073	Chicot Solar, LLC	IPP	Chicot Solar	AR	63295	CHICO	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	10	56769	Consolidated Edison Development Inc.	IPP	CED Peoria Solar	IL	63656	PS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	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
2020	10	61610	Delaware River Solar, LLC	IPP	Big Tree Community Solar Farm	NY	62476	607	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 19 #1 Community Solar Farm	NY	62500	1258	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 19 #2 Community Solar Farm	NY	62502	1415	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 5 & 20 Community Solar Farm	NY	62523	1093	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	10	61610	Delaware River Solar, LLC	IPP	State Route 64N Community Solar Farm	NY	62520	1089	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2020	10	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #1 Community Solar Farm	NY	62496	1268	3.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.8
2020	10	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #2 Community Solar Farm	NY	62498	1413	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	57170	EDF Renewable Asset Holdings, Inc.	IPP	Coyote Wind LLC	TX	63655	COY	242.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	242.5
2020	10	56201	Engie North America	IPP	ENGIE Long Draw Solar LLC	TX	62845	SP1	225.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	225.0
2020	10	56201	Engie North America	IPP	King Plains Wind Project	OK	63104	WTG	250.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.2
2020	10	56201	Engie North America	IPP	Prairie Hill Wind Project	TX	63100	WTG	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	10	63417	ISM Solar Cranston, LLC	IPP	ISM Solar Cranston	RI	63718	CR	3.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.4
2020	10	61853	Innogy Renewables US LLC	IPP	Scioto Ridge Wind Farm	OH	58780	1	249.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	249.8
2020	10	49893	Invenergy Services LLC	IPP	Harry Allen Solar Energy LLC	NV	63080	GEN1	118.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	118.8
2020	10	59685	JPMorgan Chase Bank	Commercial	South Campus Solar	DE	59922	G1789	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2020	10	63244	KSI II Consolidated, LLC	IPP	County Route 11 Community Solar Farm	NY	62507	1419	4.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.1
2020	10	63244	KSI II Consolidated, LLC	IPP	Frey Rd #1 Community Solar Farm	NY	62504	1159	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	63244	KSI II Consolidated, LLC	IPP	Frey Rd #2 Community Solar Farm	NY	62521	1442	1.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.4
2020	10	63244	KSI II Consolidated, LLC	IPP	Furnace Rd Community Solar Farm	NY	62508	1420	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2020	10	63431	Las Majadas Wind Farm, LLC	IPP	Las Majadas Wind Farm	TX	63739	LMAJ	272.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	272.6
2020	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elk Hill Solar 2	PA	63768	PAEH2	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	10	61219	Longroad Energy Services LLC	IPP	Weaver Wind	ME	63132	WEAVR	72.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.6
2020	10	63394	MSAP 13, LLC	IPP	MSAP 13	NY	63675	TROYL	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	10	63204	Mohea Solar Energy Center, LLC	IPP	Mohea Solar Energy Center, LLC	SC	63463	PGR14	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	10	56990	NJR Clean Energy Ventures Corporation	IPP	Galloway Landfill	NJ	63698	GALLO	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2020	10	62868	Novel Peter Solar LLC CSG	IPP	Novel Peter Solar CSG	MN	63009	PETR	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	10	63017	Novel Wayne Solar LLC	IPP	Novel Wayne Solar LLC CSG	MN	63249	WAYNE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	63202	Pika Solar, LLC	IPP	Pika Solar	OR	63462	PGR17	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	10	63299	Ponderosa Wind, LLC	IPP	Ponderosa Wind Energy Center	OK	63590	PONDE	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	10	56215	RWE Renewables Americas LLC	IPP	Raymond Wind Farm, LLC	TX	62909	ERAYM	200.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.2
2020	10	62778	Rattlesnake Flat, LLC	IPP	Rattlesnake	WA	62936	RAT	144.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	144.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVB	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVC	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	10	63164	Robin Solar, LLC	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	10	63374	Sanford Airport Solar, LLC	IPP	Sanford Solar	ME	63667	SAS	49.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.4
2020	10	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2020	10	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2020	10	63432	SkyHigh 2 Solar	Commercial	Amazon - Moreno Valley	CA	63740	ONT6	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2020	10	61677	Sol Systems	IPP	ESA Buies Creek, LLC	NC	63732	11630	2.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2020	10	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	202.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	202.0
2020	10	62814	Syncarpha Leicester, LLC	IPP	Syncarpha Leicester Hybrid	MA	62972	SYLES	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2020	10	62825	Syncarpha Northbridge II, LLC	IPP	Syncarpha Northbridge II Hybrid	MA	62978	SYN2B	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	10	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	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
2020	10	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	18.2
2020	10	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	18.2
2020	10	62748	Wildcat I Energy Storage LLC	IPP	Wildcat I Energy Storage LLC	CA	62875	WILD1	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	10	20856	Wisconsin Power & Light Co	Electric Utility	Kossuth	IA	62103	1	152.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	152.2
2020	11	63192	1008 Matthews Solar, LLC	IPP	1008 Matthews Solar	NC	63447	1008	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	11	61012	AES Distributed Energy	IPP	Alicea Solar Project	MA	63469	ALICA	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	11	61012	AES Distributed Energy	IPP	Alicea Solar Project	MA	63469	BATT	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2020	11	61012	AES Distributed Energy	IPP	Annese Solar Project	MA	63474	ANNES	4.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.6

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	11	61012	AES Distributed Energy	IPP	Annese Solar Project	MA	63474	BATT	3.2	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.2
2020	11	61012	AES Distributed Energy	IPP	West A&B Solar Project	MA	63473	BATT	1.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.8
2020	11	61012	AES Distributed Energy	IPP	West A&B Solar Project	MA	63473	WEST	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2020	11	61683	Amadeus Wind LLC	IPP	Amadeus Wind Farm	TX	62142	AM-TX	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	11	63419	Augusta Solar, LLC	IPP	Augusta Solar	SC	63720	PGR23	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	11	62881	Chambers Road Solar LLC	IPP	Chambers Road Solar	NY	62860	263	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2020	11	56769	Consolidated Edison Development Inc.	IPP	Water Strider Solar	VA	63549	WSS	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	11	63064	Crowned Ridge Wind II LLC	IPP	Crowned Ridge Wind II Energy Center	SD	63269	CRW2	200.6	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.6
2020	11	5109	DTE Electric Company	Electric Utility	Isabella Wind Park	MI	63601	1	383.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	383.5
2020	11	58468	Dominion Renewable Energy	Electric Utility	Spring Grove I	VA	61986	SGIS	97.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	97.9
2020	11	56201	Engie North America	IPP	Triple H Wind Project	SD	63103	WTG	250.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.2
2020	11	62759	Geronimo Energy	IPP	Allium Community Solar Garden, LLC	MN	63304	ALIUM	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Bellflower Solar, LLC	MN	63318	BELLF	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Coral Bells Solar, LLC	MN	63313	CORAL	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Honeysuckle Solar, LLC	MN	63309	HONEY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Lantana Solar, LLC	MN	63311	LANTA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Marigold Community Solar Garden, LLC	MN	63308	MGOLD	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Westport Community Solar, LLC	MN	63307	WESTP	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	11	62879	Hickory Grove #1 LLC	IPP	Hickory Grove #1	NY	62831	25	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	11	62880	Hickory Grove #2	IPP	Hickory Grove #2	NY	62832	309	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2020	11	63404	Hunker Solar River, LLC	IPP	Hunker Solar River, LLC	PA	63691	13502	3.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2020	11	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Park 4	IN	62791	SRIC4	7.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.1
2020	11	49893	Invenergy Services LLC	IPP	Crescent Valley Solar	NV	62888	GEN1	149.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	149.0
2020	11	49893	Invenergy Services LLC	IPP	Lovelock Solar	NV	62934	GEN1	190.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	190.0
2020	11	63128	Jordan Creek Wind Farm, LLC	IPP	Jordan Creek Wind Farm, LLC	IN	63389	JCW	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2020	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Wildflower Solar 1	CA	62988	CAWF1	13.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	13.0
2020	11	63440	Milford Solar I (NES)	IPP	Milford Solar 1	UT	62812	MS1	99.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	99.0
2020	11	63206	Minke Solar, LLC	IPP	Minke Solar	OR	63465	PGR20	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	11	63014	Novel Debra Solar LLC	IPP	Novel Debra Solar LLC CSG	MN	63247	DEBRA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62758	Orchard Windfarm, LLC	IPP	Orchard Windfarm, LLC	OR	62935	OCHW	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2020	11	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Energy Center	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	11	14354	PacifiCorp	Electric Utility	Ekola Flats	WY	62591	1	250.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	250.9
2020	11	14354	PacifiCorp	Electric Utility	TB Flats	WY	62516	1	503.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	503.2
2020	11	61677	Sol Systems	IPP	Eros Solar, LLC	NC	63733	11631	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	11	61677	Sol Systems	IPP	Ventura Solar, LLC	NC	63734	11632	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	11	60531	Standard Solar	IPP	USS KVPV Solar LLC	MN	63169	KVPV	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	60531	Standard Solar	IPP	USS Steamboat Solar LLC CSG	MN	63221	STMBT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	61668	Strauss Wind LLC	IPP	Strauss Wind Farm	CA	62113	ST-CA	98.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.8
2020	11	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAB	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	11	62814	Syncarpha Leicester, LLC	IPP	Syncarpha Leicester Hybrid	MA	62972	SYLEB	1.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.9
2020	11	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid	MA	62977	SYN1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	11	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	62978	USS Water City Solar LLC	IPP	USS Water City Solar LLC CSG	MN	63220	WTRCY	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	11	62977	USS Water Fowl Solar LLC	IPP	USS Water Fowl Solar LLC CSG	MN	63219	WTRFL	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	11	62976	USS Water Town Solar LLC	IPP	USS Water Town Solar LLC CSG	MN	63218	WTRTN	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	12	62685	10 Briggs Solar NG, LLC	IPP	10 Briggs Solar NG, LLC (East)	RI	62781	02818	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	12	63190	1009 Yadkin Solar, LLC	IPP	1009 Yadkin Solar	NC	63445	1009	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	12	62006	7X Energy, Inc.	IPP	Taygete Energy Project LLC	TX	62483	PV1	255.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	255.0
2020	12	62984	AC Power 2 LLC	IPP	AC Power 2	NJ	63196	ACP2	3.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.8
2020	12	57416	Acciona Energy USA Global, LLC	IPP	La Chalupa, LLC	TX	63624	LC	198.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.5
2020	12	62981	Aero Haven Solar LLC	IPP	Aero Haven Solar	NJ	63195	ACP3	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	12	62627	Alchemy Renewable Energy	IPP	Twittys Creek Solar, LLC	VA	63077	VATC	13.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	13.8
2020	12	59496	Allete Clean Energy	IPP	Diamond Spring, LLC	OK	63327	46001	303.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	303.0
2020	12	62119	Antelope Expansion 3A, LLC	IPP	Antelope Expansion 3A	CA	62673	ANX3A	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	12	62118	Antelope Expansion 3B, LLC	IPP	Antelope Expansion 3B	CA	62674	ANX3B	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	12	61949	Assembly Solar I, LLC	IPP	Assembly Solar Project	MI	62422	ASP01	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	63021	Aurora Wind Project, LLC	IPP	Aurora Wind Project	ND	63258	AURWP	298.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.8
2020	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	306.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	306.2
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	78.0
2020	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	154.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	154.0
2020	12	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
2020	12	62680	BT Coniglio Solar LLC	IPP	Coniglio Solar	TX	62772	BTCON	123.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	123.6
2020	12	62681	BT Cooke Solar, LLC	IPP	Rippey Solar	TX	62773	BTCOO	59.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	59.0
2020	12	62682	BT Kellam Solar LLC	IPP	Kellam Solar	TX	62774	BTKEL	59.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	59.0
2020	12	56771	Black Hills Service Company LLC	Electric Utility	Corriedale Wind Energy	WY	63436	WTG	52.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	52.5
2020	12	63116	Bluebell Solar II, LLC	IPP	Bluebell Solar II	TX	63351	BBS2	115.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	115.0
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4A	68.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	68.7
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4B	68.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	68.7
2020	12	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	BATT	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62995	Broad Mountain Power LLC	IPP	Broad Mountain Wind Project	PA	63210	BROAD	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	62718	Broad River Solar, LLC	IPP	Broad River Solar, LLC	NC	62822	GEN1	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	12	63295	Brooten CSG1 LLC	IPP	Brooten CSG1, LLC	MN	63593	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63296	Buffalo Lake CSG1 LLC	IPP	Buffalo Lake CSG1, LLC	MN	63594	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	199.4
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	350.0
2020	12	62872	Carolina Lily Solar, LLC	IPP	Carolina Lily Solar	NC	63016	1096	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	63495	Centerfield Cooper Solar, LLC	IPP	Centerfield Cooper Solar, LLC	SC	63810	PGR24	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2020	12	61817	Collard Holdings, LLC	IPP	Collard Holdings Solar	NC	62317	PV	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2020	12	62705	Concho Bluff LLC	IPP	Greasewood	TX	62804	GREA1	255.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	255.0
2020	12	4226	Consolidated Edison Co-NY Inc	Electric Utility	98th Street Battery Storage Station	NY	62839	ESS98	1.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0

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	12	57365	Consolidated Edison Solutions Inc	IPP	CES Marbletown Solar	NY	63729	MT1	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2020	12	4254	Consumers Energy Co	Electric Utility	Crescent Wind Park	MI	63686	GFWP	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	4254	Consumers Energy Co	Electric Utility	Gratiot Farms Wind Project	MI	63687	CWP	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	61978	Convergent Energy and Power LP	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	12	62802	Cove Mountain Solar LLC	IPP	Cove Mountain Solar	UT	62469	GEN01	58.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	58.0
2020	12	61060	Cypress Creek Renewables	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	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
2020	12	61709	Desert Harvest, LLC	IPP	Desert Harvest, LLC	CA	62177	DH001	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	5248	Dominion Energy Inc	Electric Utility	Greensville Solar	VA	63745	GVSO	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2020	12	5248	Dominion Energy Inc	Electric Utility	Sadler Solar	VA	62814	SADL	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Gaston Solar Power Plant	NC	62669	PV1	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Maiden Creek Solar Power Plant	NC	62668	PV1	69.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	69.3
2020	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	BAT1	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	300.0
2020	12	61785	EDP Renewables North America LLC	IPP	Crossing Trails Wind Farm	CO	62489	GEN1	104.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	104.0
2020	12	61785	EDP Renewables North America LLC	IPP	Headwaters Wind Farm II LLC	IN	62592	HWII	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	12	62667	East Line Solar, LLC	IPP	East Line Solar	AZ	62899	EASTL	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2020	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
2020	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
2020	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
2020	12	5860	Empire District Electric Co	Electric Utility	Kings Point Wind Energy Center	MO	62475	KPW1	149.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	149.4
2020	12	5860	Empire District Electric Co	Electric Utility	Neosho Ridge Wind Energy Center	KS	62481	NRW1	301.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	301.0
2020	12	5860	Empire District Electric Co	Electric Utility	North Fork Ridge Wind Energy Center	MO	62478	NFRW1	149.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	149.4
2020	12	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
2020	12	60496	Enerparc Inc.	IPP	Pawcatuck Solar Center, LLC	CT	62318	PAWCA	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	12	56201	Engie North America	IPP	Dakota Range III Wind Project	SD	63102	WTG	151.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	151.2
2020	12	56201	Engie North America	IPP	Las Lomas Wind Project	TX	63101	WTG	201.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	201.6
2020	12	59497	Eversource	IPP	Martha's Vineyard Community Battery	MA	62605	MVESS	4.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.9
2020	12	59497	Eversource	IPP	Outer Cape Community Battery	MA	62604	OCESS	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	128.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	128.0
2020	12	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	6.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	6.9
2020	12	63345	Flodquist Community Solar LLC	IPP	Flodquist Community Solar LLC	MN	63650	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	6452	Florida Power & Light Co	Electric Utility	Egret Solar Center	FL	62925	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Lakeside Solar Center	FL	62922	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Magnolia Springs Solar Center	FL	62915	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Nassau Solar Center	FL	62914	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Trailside Solar Center	FL	62916	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Union Springs Solar Center	FL	62923	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	62856	Forefront Power, LLC	IPP	DGS Central California Womens Facility	CA	63419	1122	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	7140	Georgia Power Co	Electric Utility	Robins Air Force Base Solar	GA	61648	1	139.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	139.0
2020	12	62759	Geronimo Energy	IPP	Bingham Solar, LLC	MI	63321	BINGH	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2020	12	62759	Geronimo Energy	IPP	Temperance Solar, LLC	MI	63322	TEMPR	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2020	12	63108	Granby Solar, LLC	IPP	Granby Solar, LLC	MA	63338	4787	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2020	12	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2020	12	61594	Highlander Solar Station 1 LLC	IPP	Highlander Solar Station 1	VA	62014	HLND1	165.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	165.0
2020	12	61697	Hillcrest Solar I, LLC	IPP	Hillcrest Solar	OH	62200	HILLC	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HHB	32.0	Other Waste Biomass	OBS	ST	(V) Under construction, more than 50 percent complete	36.0
2020	12	62134	Hunter Solar LLC	IPP	Hunter Solar LLC	UT	62656	HUSOL	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	61853	Innogy Renewables US LLC	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2020	12	61853	Innogy Renewables US LLC	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	61853	Innogy Renewables US LLC	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
2020	12	61853	Innogy Renewables US LLC	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2020	12	61853	Innogy Renewables US LLC	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
2020	12	61853	Innogy Renewables US LLC	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
2020	12	49893	Invenergy Services LLC	IPP	Deuel Harvest Wind Energy LLC	SD	62943	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	12	49893	Invenergy Services LLC	IPP	Hardin Solar Energy LLC	OH	63029	GEN1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	49893	Invenergy Services LLC	IPP	Sundance Wind Project, LLC	OK	63489	GEN1	199.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	199.0
2020	12	49893	Invenergy Services LLC	IPP	Thunderhead Wind Energy LLC	NE	62956	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	12	49893	Invenergy Services LLC	IPP	Traverse Wind Project, LLC	OK	63479	GEN1	999.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	999.0
2020	12	62883	Kruger Energy Hertford, LLC	IPP	Kruger Energy Hertford, LLC	NC	63024	KEH	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	12	59195	Landfill Energy Systems	IPP	Zimmerman Energy	IN	59425	ZE#4	1.4	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2020	12	50123	Leeward Asset Management, LLC	IPP	Lone Tree Wind, LLC	IL	63251	LTW	79.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.0
2020	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Impact Solar 1	TX	63222	TXIM1	198.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	198.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	1	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	2	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	3	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	4	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	5	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 3	CA	62463	GEN01	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 4	CA	62464	GEN01	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 5	CA	62465	GEN01	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2020	12	63300	Lowry CSG2 LLC	IPP	Lowry CSG2, LLC	MN	63595	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62721	Maryneal Windpower, LLC	IPP	Maryneal Windpower	TX	62836	MNW	182.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	182.4
2020	12	61710	Maverick Solar, LLC	IPP	Maverick Solar, LLC	CA	62178	MAV01	225.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	225.0
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	11	0.4	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	12	0.4	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	13	0.4	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	14	0.4	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	0.4
2020	12	12341	MidAmerican Energy Co	Electric Utility	Contrail Wind Farm	IA	63639	COWF	112.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	112.4
2020	12	12341	MidAmerican Energy Co	Electric Utility	Diamond Trail Wind Farm	IA	63641	DTWF	252.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	252.5
2020	12	12341	MidAmerican Energy Co	Electric Utility	Palo Alto Wind Farm	IA	63053	PAWF2	90.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	90.0
2020	12	12341	MidAmerican Energy Co	Electric Utility	Southern Hills Wind Farm	IA	63640	SHWF	254.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	254.1
2020	12	62916	Mohave County Wind Farm	IPP	Mohave County Wind Farm	AZ	63114	MCWF	350.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	350.0

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	12	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	25.5
2020	12	15296	New York Power Authority	Electric Utility	Willis Battery Storage	NY	63238	WB1	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	13781	Northern States Power Co - Minnesota	IPP	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	63294	Nutmeg Solar LLC	IPP	Nutmeg Solar	CT	63592	NUTMG	19.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.6
2020	12	63473	Odom Solar, LLC	IPP	SR Odom	GA	63814	ODOM	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	12	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	245.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	349.0
2020	12	63279	Outlaw Wind Project LLC	IPP	Outlaw Wind Project LLC	MO	63574	GEN1	298.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.6
2020	12	63301	Paynesville CSG1 LLC	IPP	Paynesville CSG1, LLC	MN	63596	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62985	Pettinos Solar LLC	IPP	Pettinos Solar	NJ	63197	ACP4	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2020	12	63302	Plato CSG1 LLC	IPP	Plato CSG1, LLC	MN	63597	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62873	Plott Hound Solar, LLC	IPP	Plott Hound Solar	NC	63015	1088	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	7	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	9.0
2020	12	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	8	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	9.0
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2020	12	62780	RE Slate LLC	IPP	Slate	CA	63727	SLATE	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2020	12	56215	RWE Renewables Americas LLC	IPP	Boiling Springs Wind Farm	OK	62871	BGSPS	148.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	148.4
2020	12	56215	RWE Renewables Americas LLC	IPP	West Raymond Wind Farm LLC	TX	62855	WRAYM	239.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	239.8
2020	12	63141	Rancho Seco Solar II, LLC	IPP	Rancho Seco Solar II, LLC	CA	63387	RSS2	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2020	12	62871	Ray Wilson Solar, LLC	IPP	Ray Wilson Solar	NC	63017	1090	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	61590	Richmond Spider Solar LLC	IPP	Richmond Spider Solar	VA	62011	RMDSS	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	12	62761	Rosewater Wind Farm LLC	IPP	Rosewater Wind Farm	IN	62891	ROSEW	102.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	102.0
2020	12	61624	SR Snipesville	IPP	Snipesville	GA	62165	SNIPE	61.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	61.0
2020	12	63303	Sacred Heart CSG1 LLC	IPP	Sacred Heart CSG1, LLC	MN	63598	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63366	Schueler Community Solar LLC	IPP	Schueler Community Solar	MN	63658	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63119	Scotch Bonnet Solar, LLC	IPP	Scotch Bonnet Solar, LLC	NC	63345	PGR07	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2020	12	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
2020	12	63365	Siems Community Solar LLC	IPP	Siems Solar Project	MN	63657	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62146	Sigurd Solar LLC	IPP	Sigurd Solar LLC	UT	62666	SGSOL	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SKC	250.0	Onshore Wind Turbine	WND	WT	(OT) Other	250.0
2020	12	63137	Solar Frontier Americas Development	IPP	Mustang Two	CA	62015	M2BAR	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	63137	Solar Frontier Americas Development	IPP	Mustang Two	CA	62015	M2WHI	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	63137	Solar Frontier Americas Development	IPP	Pioneer Solar (CO), LLC	CO	61991	PI-QF	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	17609	Southern California Edison Co	Electric Utility	Cadillac Battery Energy Storage Facility	CA	63326	CAD1	3.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.5
2020	12	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
2020	12	17609	Southern California Edison Co	Electric Utility	DESI-2 Battery Storage Facility	CA	62460	DESI2	1.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.4
2020	12	17609	Southern California Edison Co	Electric Utility	Yorktown Battery Energy Storage Facility	CA	63325	YORK1	3.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.0
2020	12	17718	Southwestern Public Service Co	Electric Utility	Sagamore Wind	NM	63578	SWF01	522.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	522.0
2020	12	62717	Speedway Solar NC, LLC	IPP	Speedway Solar NC, LLC	NC	62821	GEN1	22.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.6
2020	12	63395	Spencer Solar Farm, LLC	IPP	Spencer Solar	MA	63676	SPENC	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2020	12	60531	Standard Solar	IPP	USS Buckaroo Solar LLC CSG	MN	63153	BUCKR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63304	Stewart CSG1 LLC	IPP	Stewart CSG1, LLC	MN	63599	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62716	Stony Knoll Solar, LLC	IPP	Stony Knoll Solar, LLC	NC	62820	GEN1	22.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.6
2020	12	63396	Sturbridge Road Solar Farm, LLC	IPP	Sturbridge Road Solar	MA	63677	STURB	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	12	63106	Sutton Solar 2, LLC	IPP	Sutton Solar 2, LLC	MA	63336	6004	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	12	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid	MA	62977	SYN1B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	12	61954	Techren Solar V LLC	IPP	Techren Solar V	NV	62440	TECH5	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	63224	Tehachapi Plains Wind, LLC	IPP	Point Wind	CA	63482	PW1	64.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	64.5
2020	12	63433	USS Bluff Country Solar	IPP	USS Bluff Country Solar	MN	63741	USBCS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63328	USS Goodrich Solar	IPP	USS Goodrich Solar	IL	63620	USGCH	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2020	12	63327	USS Grandpa Solar	IPP	USS Grandpa Solar	IL	63619	USGPA	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	12	63436	USS Hubers Solar LLC	IPP	USS Hubers Solar LLC	MN	63744	HUBER	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62958	USS Kass Solar LLC	IPP	USS Kass Solar LLC	MN	63170	KASS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63326	USS Solar Brick	IPP	USS Solar Brick	IL	63618	USBRK	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2020	12	63435	USS Solar Way LLC	IPP	USS Solar Way LLC	MN	63743	SOLWY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63329	USS Sycamore Solar	IPP	USS Sycamore Solar	IL	63621	USSYC	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2020	12	63434	USS Viceroy Solar LLC	IPP	USS Viceroy Solar LLC	MN	63742	USVIC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	19876	Virginia Electric & Power Co	IPP	Desper Solar	VA	62730	1	88.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	88.2
2020	12	61522	Viridity Energy Solutions, Inc.	IPP	Vallecito	CA	62801	ORN34	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2020	12	63129	Wapello Solar LLC	IPP	Wapello Solar LLC	IA	63378	WAPLO	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	62668	Wheatridge Wind Energy, LLC	IPP	Wheatridge Hybrid	OR	62745	WIND	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	12	62079	White Cloud Wind Project, LLC	IPP	White Cloud Wind Project, LLC	MO	62624	WTCWF	236.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	236.5
2020	12	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
2020	12	62635	Wildcat Creek Wind Farm LLC	IPP	Wildcat Creek Wind Farm LLC	TX	62715	WCCWF	180.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.1
2020	12	20860	Wisconsin Public Service Corp	Electric Utility	Two Creeks Solar	WI	63105	1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2021	1	62160	AES ES Alamitos, LLC	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2021	1	62805	Bluestone Farm Solar, LLC	IPP	Bluestone Solar	VA	62950	BLUE1	49.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.9
2021	1	59315	Bradley Farm LLC	IPP	Bradley Farm (Dudley)	NC	62593	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	1	61978	Convergent Energy and Power LP	IPP	Orange County Energy Storage 2	CA	62497	OCES2	9.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.0
2021	1	61978	Convergent Energy and Power LP	IPP	Orange County Energy Storage 3	CA	62499	OCES3	6.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	6.0
2021	1	6455	Duke Energy Florida, LLC	Electric Utility	Santa Fe Solar Power Plant	FL	63517	PV1	42.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2021	1	6455	Duke Energy Florida, LLC	Electric Utility	Twin Rivers Solar Power Plant	FL	63518	PV1	42.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2021	1	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2021	1	62763	Hecate Grid, LLC	IPP	Hecate Energy Johanna Facility	CA	62889	HEGJF	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2021	1	9234	Indiana Municipal Power Agency	Electric Utility	Columbia City Solar Park	IN	62769	SCOLU	4.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.3
2021	1	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN6	1.2	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	1.2
2021	1	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN7	1.2	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	1.2
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN7	9.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN8	9.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN9	9.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.0
2021	1	60685	Novel Energy Solutions	IPP	Hayfield Solar I LLC	MN	63724	HAYF1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-1	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-2	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-3	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5

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	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-4	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-5	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-6	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63210	Saint Solar LLC	IPP	Saint Solar	AZ	63476	SAINT	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	1	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
2021	1	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1	MA	63541	BCRV1	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.0
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1	MA	63541	SCRV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	1	63243	Solar Carver 3, LLC	IPP	Solar Carver 3	MA	63506	BCRV3	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2021	1	63243	Solar Carver 3, LLC	IPP	Solar Carver 3	MA	63506	SCRV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	1,105.0
2021	1	18454	Tampa Electric Co	Electric Utility	Durrance	FL	63495	1	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2021	1	62973	USS Dot Com Solar LLC	IPP	USS Dot Com Solar LLC CSG	MN	63215	DOTCM	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(V) Under construction, more than 50 percent complete	12.0
2021	2	59050	Algonquin Power Co	IPP	Maverick Creek Wind	TX	62853	MVRCK	524.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	524.4
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R1	18.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R2	18.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R3	18.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	GT200	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	21.7
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	GT300	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	21.7
2021	2	60685	Novel Energy Solutions	IPP	Hayfield Solar III LLC	MN	63725	HAYF3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	2	60685	Novel Energy Solutions	IPP	Pipestone City Solar LLC	MN	63726	PSCTY	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-1	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-2	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-3	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-4	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-5	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-6	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-7	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-8	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-9	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG10	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	61727	Reloj del Sol Wind Farm LLC	IPP	Reloj del Sol Wind Farm	TX	62207	RELOJ	209.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	209.4
2021	2	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
2021	3	57365	Consolidated Edison Solutions Inc	IPP	CES Agawam Tuckahoe Solar	MA	63763	ATES	2.3	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.3
2021	3	57365	Consolidated Edison Solutions Inc	IPP	CES Agawam Tuckahoe Solar	MA	63763	ATPV	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.6
2021	3	62742	ENEL BELLA ENERGY STORAGE, LLC	IPP	Goleta Grid Resiliency	CA	63736	BESS1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2021	3	61888	Gloversville Community Solar LLC	IPP	Gloversville Landfill Solar	NY	62357	08158	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	3	9324	Indiana Michigan Power Co	Electric Utility	South Bend Solar	IN	63801	1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2021	3	14328	Pacific Gas & Electric Co.	Electric Utility	Elkhorn Battery Energy Storage System	CA	62564	ELKHO	182.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	182.5
2021	3	62646	Painter Energy Storage, LLC	IPP	Painter Energy Storage	CA	62729	PAIN1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2021	3	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
2021	3	63424	Silverstrand Grid, LLC	IPP	Silverstrand Grid Energy Storage System	CA	63735	SLV01	11.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	11.0
2021	3	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	5.8
2021	3	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
2021	3	20159	Washington Parish Engy Ctr 1 LLC	IPP	Washington Parish Energy Center	LA	55486	CTG01	182.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	199.8
2021	3	20159	Washington Parish Engy Ctr 1 LLC	IPP	Washington Parish Energy Center	LA	55486	CTG02	182.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	199.8
2021	3	62048	Westlands Almond LLC	IPP	Almond	CA	62546	ALMND	19.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.9
2021	3	63276	Woodfields Solar, LLC	IPP	Woodfields Solar	SC	63552	PGR21	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	4	63004	Abundant Solar Power Inc.	IPP	Deiter-STEU	NY	63226	2078	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2021	4	63004	Abundant Solar Power Inc.	IPP	Gibson-STEU	NY	63227	8675	11.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	11.5
2021	4	63004	Abundant Solar Power Inc.	IPP	Wheaton-STEU	NY	63228	11410	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	4	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	4	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-1H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	1.5
2021	4	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-2H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	1.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Discovery Solar Center	FL	63109	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Orange Blossom Solar Center	FL	62919	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Palm Bay Solar	FL	62921	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Pelican Solar Center	FL	62924	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Rodeo Solar Center	FL	62917	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Sabal Palm Solar Center	FL	63110	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	49893	Invenergy Services LLC	IPP	Badger Hollow Solar Farm LLC	WI	62955	GEN1	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2021	4	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEC Simple Cycle Gas Turbine	MA	63559	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	65.0
2021	4	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
2021	4	63275	Samoset Solar, LLC	IPP	Samoset Solar	ME	63551	PGR21	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	4	62919	TPE King Solar Holdings1 LLC	IPP	King CSG	RI	63135	KING1	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2021	4	62919	TPE King Solar Holdings1 LLC	IPP	King CSG	RI	63135	KING2	7.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.8
2021	4	62808	Whitehorn Solar, LLC	IPP	Whitehorn Solar	VA	62959	WHIT1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project	TX	63255	2WPBA	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project	TX	63255	2WPSO	420.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	420.0
2021	5	62049	Aquamarine Westside LLC	IPP	Aquamarine	CA	62547	AQUAM	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM45	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM46	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM47	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM48	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM49	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	63441	Fogarty Solar LLC	IPP	Fogarty	NY	63747	GRA	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	5	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
2021	5	61942	Griffin Trail Wind, LLC	IPP	Griffin Trail Wind	TX	62411	GTWND	225.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	225.6
2021	5	62807	Hawtree Creek Farm Solar, LLC	IPP	Hawtree Solar	NC	62951	HAWT1	65.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.0
2021	5	62064	Hill Top Energy Center, LLC	IPP	Hill Top Energy Center, LLC	PA	62565	GEN1	619.1	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	664.7
2021	5	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
2021	5	55983	Luminant Generation Company LLC	IPP	Brightside	TX	63223	UNIT1	50.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.7

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	5	63100	SE Juno, LLC	IPP	Juno Solar Project	TX	63328	JUNO1	159.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	159.0
2021	5	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	5	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid	MA	62968	SYTKS	2.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.8
2021	5	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
2021	6	63118	224WB 8me LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2021	6	61523	225DD 8me LLC	IPP	Galloway 1 Solar Farm	TX	61920	GSM01	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	6	61525	231RC 8me LLC	IPP	Norton Solar Farm	TX	61967	NSM01	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2021	6	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	6	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	6	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
2021	6	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
2021	6	61825	Antelope Expansion 1B, LLC	IPP	Antelope Expansion 1B	CA	62320	ANE1B	17.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	6	63430	Astral Electricity, LLC	IPP	Chisholm Grid Energy Storage System	TX	63737	CHS01	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	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
2021	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
2021	6	62746	Don Lee BESS 1 LLC	IPP	Don Lee BESS 1 LLC	CA	62872	DONL1	6.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.5
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	56987	East Blackland Solar Project 1 LLC	IPP	East Blackland Solar Project 1	TX	57659	PSF	144.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	144.0
2021	6	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2021	6	58970	Ecoplexus, Inc	IPP	OAKBORO PV1	NC	63162	OAKPV	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2021	6	58970	Ecoplexus, Inc	IPP	Pleasant Hill PV1	NC	63787	PHILL	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	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
2021	6	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8.2	40.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	50.0
2021	6	7140	Georgia Power Co	Electric Utility	Fort Valley State University Solar	GA	63062	1	10.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.8
2021	6	7140	Georgia Power Co	Electric Utility	Georgia College & State University Solar	GA	63282	1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2021	6	61122	Great River Hydro, LLC	IPP	S C Moore	NH	2351	GEN5	4.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	4.6
2021	6	63499	Gunsight Solar, LLC	IPP	Gunsight Solar, LLC	SC	63813	PGR26	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2021	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	232.0
2021	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
2021	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	177.0
2021	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	177.0
2021	6	63474	Hecate Energy Gedney Hill LLC	IPP	Hecate Energy Gedney Hill	NY	63815	GEDNY	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	6	49893	Invenergy Services LLC	IPP	Canisteo Wind Farm	NY	62947	GEN1	290.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	290.7
2021	6	63453	Johnson Development Associates, Inc.	IPP	Pinson Solar Farm	SC	63777	1310	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	26.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC2	48.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC3	48.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPS1	46.3	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPST	81.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	89.2
2021	6	61219	Longroad Energy Services LLC	IPP	Muscle Shoals	AL	62462	GEN01	227.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	227.0
2021	6	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEC Simple Cycle Gas Turbine	MA	63559	1	55.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	70.0
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	6	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(T) Regulatory approvals received. Not under construction	2.0
2021	6	61946	Prairie State Solar, LLC	IPP	Prairie State Solar Project	IL	62420	PSS01	99.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	99.0
2021	6	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2021	6	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
2021	6	63092	SE Titan, LLC	IPP	Titan Solar Project	TX	63320	IPTTN	260.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	260.0
2021	6	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid	MA	62968	SYTKB	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.0
2021	6	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid	MA	62971	SYWES	4.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.7
2021	6	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH1	4.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.8
2021	6	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH2	4.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.7
2021	6	63420	Taos Mesa Energy Facility, LLC	IPP	Taos Mesa Energy Facility	NM	63728	TMEF1	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2021	6	19564	University of Notre Dame	Commercial	Notre Dame Hydro	IN	62918	HYD1	2.5	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.5
2021	6	63225	Wister Solar	IPP	Wister Solar	CA	63487	WSOL	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-1	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-2	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-3	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	7	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
2021	7	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	7	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	G6PV	0.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.8
2021	7	56615	First Solar Project Development	IPP	Sun Stream 2	AZ	63440	GEN01	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2021	7	63403	Luna Storage, LLC	IPP	Luna Storage	CA	63685	LUNA	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	7	63451	Madero Grid, LLC	IPP	Madero Grid	TX	63757	MAD01	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2021	7	63139	Minonk Stewardship Wind LLC	IPP	Bennington Wind	IL	63384	BENN	93.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	93.0
2021	7	61593	Pleinmont Solar 2 LLC	IPP	Pleinmont Solar 2	VA	62013	PLNM2	240.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	240.0
2021	7	63100	SE Juno, LLC	IPP	Juno Solar Project	TX	63328	IPJNO	141.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	141.0
2021	7	62699	SunEast Dog Corners Solar LLC	IPP	SunEast Dog Corners Solar Project	NY	62823	Q584	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	7	62757	SunEast Hills Solar LLC	IPP	SunEast Hills Solar Project	NY	62895	Q581	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)
2021	7	62698	SunEast Skyline Solar LLC	IPP	SunEast Skyline Solar Project	NY	62816	Q670	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	7	62756	SunEast Watkins Road Solar LLC	IPP	SunEast Watkins Road Solar Project	NY	62896	Q586	20.0	Solar Photovoltaic	SUN	PV	(OT) Other	20.0
2021	7	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid	MA	62974	SYMIS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	7	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid	MA	62971	SYWEB	2.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.9
2021	7	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
2021	8	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	8	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	8	56769	Consolidated Edison Development Inc.	IPP	Copper Mountain Solar 5, LLC	NV	63504	CM5-1	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	252.0
2021	8	61060	Cypress Creek Renewables	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	8	61684	Diablo Energy Storage, LLC	IPP	Diablo Energy Storage	CA	62175	DIBLO	250.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	250.0
2021	8	56545	Pattern Operators LP	IPP	G.S.E. One LLC	TX	62505	1	82.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	83.0
2021	8	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid	MA	62974	SYMIB	3.8	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.8
2021	8	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701-S	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2021	9	63253	Assembly Solar II LLC	IPP	Assembly Solar II LLC	MI	63538	AS2	110.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	110.0
2021	9	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2021	9	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-3	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-4	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	63084	Gulfwinds Generation, LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2021	9	63109	Hales Mills Solar, LLC	IPP	Hales Mills Solar, LLC	NY	63339	6609	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	9	19558	Homer Electric Assn Inc	Electric Utility	Soldotna	AK	57206	3	46.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	93.0
2021	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Briar Creek Solar 1	TX	63769	TXBC1	127.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	127.0
2021	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elk Hill Solar 1	PA	63773	PAEH1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elm Branch Solar 1	TX	63764	TXEB1	134.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	134.7
2021	9	55983	Luminant Generation Company LLC	IPP	Emerald Grove	TX	63233	UNIT1	108.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	108.0
2021	9	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
2021	9	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
2021	9	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
2021	9	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
2021	9	62743	RoxWind LLC	IPP	RoxWind	ME	62857	WIND1	15.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	15.3
2021	9	63101	SE Aragorn, LLC	IPP	Aragorn Solar Project	TX	63329	IPAGN	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2021	9	63493	Sugar Solar, LLC	IPP	Sugar Solar, LLC	NC	63807	PGR29	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0
2021	9	62700	SunEast Clay Solar LLC	IPP	SunEast Clay Solar Project	NY	62819	Q669	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	63412	Westmoreland County Solar Project, LLC	IPP	Westmoreland County Solar Project	VA	63696	WEST	19.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.9
2021	10	62794	AP Solar 2, LLC	IPP	Fighting Jays Solar Project	TX	62945	FJSOL	350.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	350.0
2021	10	62659	BMP Wind LLC	IPP	BMP Wind (TX)	TX	62809	BMP	293.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	293.3
2021	10	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
2021	10	62886	Clover Creek Solar, LLC	IPP	Clover Creek Solar	UT	63061	CLVR	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	10	58970	Ecoplexus, Inc	IPP	Westminister NC	NC	63567	WSMTR	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2021	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
2021	10	62893	Mililani I Solar LLC	IPP	Mililani South Solar Farm	HI	57242	1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	58901	Sustainable Hydro, Braddock, LLC	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2021	10	61637	TUUSSO Energy, LLC	IPP	Camas Solar Project	WA	62071	CAMAS	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Fumaria Solar Project	WA	62070	FUMAR	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Penstemon Solar Project	WA	62069	PENST	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Typha Solar Project	WA	62068	TYPHA	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Urtica Solar Project	WA	62067	URTIC	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	59056	Tri Global Energy, LLC	IPP	Water Valley Wind Energy	TX	62846	WWE1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2021	11	15399	Avangrid Renewables LLC	IPP	Montague Solar	OR	63441	S1	162.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	162.0
2021	11	62734	Blue Marmot IX LLC	IPP	Blue Marmot IX	OR	62867	DVRO	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62735	Blue Marmot V LLC	IPP	Blue Marmot V	OR	62866	DNZE	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62736	Blue Marmot VI LLC	IPP	Blue Marmot VI	OR	62865	DNZW	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62737	Blue Marmot VII LLC	IPP	Blue Marmot VII	OR	62864	RSHEI	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62738	Blue Marmot VIII LLC	IPP	Blue Marmot VIII	OR	62863	PRMLE	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	63414	Cool Springs Solar, LLC	IPP	Cool Springs Solar	GA	63721	COOLS	213.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	213.0
2021	11	63418	Elora Solar	IPP	Elora Solar	TN	63719	ELO	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2021	11	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	BMS	409.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	409.0
2021	11	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
2021	11	63289	Key Capture Energy	IPP	NY2 Battery	NY	63584	NY2	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Bighorn Solar 1	CO	63770	COBH1	240.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	240.0
2021	11	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
2021	11	61762	Long Ridge Energy Generation 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	521.9
2021	11	55983	Luminant Generation Company LLC	IPP	Alira	TX	63193	UNIT1	222.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	222.8
2021	11	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	CT2	5.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	6.1
2021	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
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar	GA	63522	HPBAT	40.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	40.0
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar	GA	63522	HPRK	195.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	195.5
2021	11	61516	Stratford Solar Center, LLC	IPP	Stratford Solar Center, LLC	VA	61908	STRAT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT5	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT6	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	52.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	52.5
2021	11	60387	Townsite Solar, LLC	IPP	Townsite Solar Project	NV	60654	GEN02	90.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	90.0
2021	12	61222	174 Power Global Corp.	IPP	Gerdau	TX	63797	GER01	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2021	12	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center	MO	63065	GBESS	2.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.5
2021	12	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center	MO	63065	GCREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	12	59495	Ameren Missouri	Electric Utility	Richwoods Renewable Energy Center	MO	63066	RBESS	4.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.0
2021	12	59495	Ameren Missouri	Electric Utility	Richwoods Renewable Energy Center	MO	63066	RREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	12	59495	Ameren Missouri	Electric Utility	Utica Renewable Energy Center	MO	63067	UBESS	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2021	12	59495	Ameren Missouri	Electric Utility	Utica Renewable Energy Center	MO	63067	UREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	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
2021	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
2021	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

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	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	803	Arizona Public Service Co	Electric Utility	Cotton Center Solar Hybrid	AZ	57561	CC17M	17.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	803	Arizona Public Service Co	Electric Utility	Desert Star Hybrid	AZ	62965	DS10M	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	12	803	Arizona Public Service Co	Electric Utility	El Sol BESS	AZ	62964	EL50M	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	12	803	Arizona Public Service Co	Electric Utility	Foothills Solar Plant Hybrid	AZ	57997	FH38M	38.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	38.0
2021	12	803	Arizona Public Service Co	Electric Utility	Gila Bend Hybrid	AZ	59020	GB36M	36.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	36.0
2021	12	803	Arizona Public Service Co	Electric Utility	Hyder II Hybrid	AZ	58383	H214M	14.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	14.0
2021	12	803	Arizona Public Service Co	Electric Utility	Hyder Solar Hybrid	AZ	57563	H116M	16.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	16.0
2021	12	803	Arizona Public Service Co	Electric Utility	Paloma Solar Hybrid	AZ	57562	PA17M	17.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	15399	Avangrid Renewables LLC	IPP	Bakeoven Solar	OR	63507	BOS1	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	12	15399	Avangrid Renewables LLC	IPP	Golden Hill Wind	OR	63710	GH1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2021	12	15399	Avangrid Renewables LLC	IPP	Lund Hill Solar	WA	63509	LHS1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2021	12	59613	BayWa r.e. Solar Projects LLC	IPP	Bluebird Solar LLC	KY	62797	BBIRD	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62708	Black Bear Wind LLC	IPP	Black Bear Wind (MT)	MT	62808	BBW	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62713	Buenos Aires Windpower LLC	IPP	Buenos Aires Phase 1	TX	62803	BAW1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	63221	CD4	IPP	CD4	CA	63490	OEC1	17.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	25.0
2021	12	58508	Carolina Solar Energy LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2021	12	58508	Carolina Solar Energy LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	56769	Consolidated Edison Development Inc.	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	62898	Dflex Power, LLC	IPP	John Paul Jones	TX	63095	JPJDX	18.7	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.7
2021	12	62911	Drew Solar LLC	IPP	Drew Solar LLC	CA	63127	DS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	61785	EDP Renewables North America LLC	IPP	Saddle Mountain East Wind Farm	WA	62263	GEN1	126.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	126.0
2021	12	58970	Ecoplexus, Inc	IPP	East Nash PV2	NC	63789	ENSH2	26.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	26.0
2021	12	58970	Ecoplexus, Inc	IPP	Grifton PV2	NC	63568	GRFT2	56.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	6.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	6.0
2021	12	60496	Enerparc Inc.	IPP	Scituate RI Solar, LLC	RI	61841	SCITU	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	12	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2021	12	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG1	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2021	12	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG2	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS2	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS3	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS4	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	62759	Geronimo Energy	IPP	Elk Creek Solar	MN	63250	ELKCR	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2021	12	62759	Geronimo Energy	IPP	Prairie Wolf Solar LLC	IL	62893	PWOLF	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2021	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
2021	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
2021	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
2021	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
2021	12	62704	Grizzly Wind LLC	IPP	Grizzly Wind LLC	MT	62802	GW	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62153	Hecate Energy Highland LLC	IPP	Hecate Energy Highland LLC	OH	62670	HIGHL	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2021	12	62765	High Bridge Wind, LLC	IPP	High Bridge Wind Project	NY	62894	WT	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	63497	Highest Power Solar, LLC	IPP	Highest Power Solar, LLC	NC	63812	PGR31	48.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	48.7
2021	12	61853	Innogy Renewables US LLC	IPP	Baron Winds Farm	NY	60596	1	130.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	130.0
2021	12	61853	Innogy Renewables US LLC	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
2021	12	49893	Invenergy Services LLC	IPP	Alle-Catt Wind Energy LLC	NY	62954	GEN1	340.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	340.0
2021	12	49893	Invenergy Services 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
2021	12	49893	Invenergy Services LLC	IPP	Horseshoe Solar Energy	NY	63096	GEN1	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2021	12	49893	Invenergy Services LLC	IPP	Yum Yum Solar LLC	TN	63026	GEN1	147.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	147.0
2021	12	62912	Iris Solar LLC	IPP	Iris Solar LLC	LA	63128	ISLLC	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT1	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT2	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	63107	Lansing Renewables, LLC	IPP	Lansing Renewables, LLC	NY	63337	6004	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	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
2021	12	63496	Lick Creek Solar, LLC	IPP	Lick Creek Solar, LLC	NC	63811	PGR27	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	1	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	5	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	63231	Maverick Wind Project, LLC	IPP	Maverick Wind Project, LLC	OK	63494	GEN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2021	12	62675	Meherrin Solar LLC	IPP	Meherrin Solar	VA	62758	MEHER	59.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	59.6
2021	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	220.0
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	63216	North Valley	IPP	North Valley	NV	63491	OEC1	25.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	37.0
2021	12	63110	Owlville Creek Solar 2, LLC	IPP	Owlville Creek Solar 2, LLC	NY	63340	6609	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	63111	Owlville Creek Solar, LLC	IPP	Owlville Creek Solar, LLC	NY	63341	6608	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	14328	Pacific Gas & Electric Co.	Electric Utility	Llagas Energy Storage	CA	63529	LLAGS	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	56545	Pattern Operators LP	IPP	Old Jackson Solar LLC	TX	62501	1	127.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	128.0
2021	12	56545	Pattern Operators LP	IPP	Solemio LLC	TX	62522	1	79.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62689	Piney Creek, LLC	IPP	Piney Creek Solar	VA	62768	PCSOL	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	56215	RWE Renewables Americas LLC	IPP	Blackjack Creek Wind Farm	TX	62783	BLKJK	239.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	239.6

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	12	61784	Rolling Upland Wind Farm LLC	IPP	Rolling Upland Wind Farm LLC	NY	62262	GEN1	60.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	12	62896	Rooney Ranch, LLC	IPP	Rooney Ranch	CA	63088	ROONR	21.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	21.0
2021	12	62983	SE Athos I, LLC	IPP	Athos Solar Project	CA	63300	IPAT1	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	12	61900	SR Arlington, LLC	IPP	SR Arlington I	GA	62436	ARLI	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	12	62907	Sand Hill A, LLC	IPP	Sand Hill A	CA	63126	SNDHA	13.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.5
2021	12	62908	Sand Hill B, LLC	IPP	Sand Hill B	CA	63652	SNDHB	17.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	62909	Sand Hill C, LLC	IPP	Sand Hill C	CA	63653	SNDHC	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEABT	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	12	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEARC	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	62152	Skipjack Solar Center, LLC	IPP	Skipjack Solar Center	VA	62675	SKIPJ	175.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	175.0
2021	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
2021	12	62744	St. James Solar, LLC	IPP	St. James Solar (LA)	LA	62854	SJS	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	63140	Three Rivers Solar Power, LLC	IPP	Three Rivers Solar Power, LLC	ME	63386	3RIVS	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	12	60387	Townsite Solar, LLC	IPP	Townsite Solar Project	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2021	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
2021	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
2021	12	63492	West River Solar, LLC	IPP	West River Solar, LLC	NC	63806	PGR28	40.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2021	12	62668	Wheatridge Wind Energy, LLC	IPP	Wheatridge Hybrid	OR	62745	BTRY	30.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	30.0
2021	12	62668	Wheatridge Wind Energy, LLC	IPP	Wheatridge Hybrid	OR	62745	SOLAR	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	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
2021	12	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
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2022	1	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
2022	1	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(OT) Other	5.0
2022	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
2022	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
2022	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
2022	1	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
2022	1	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
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	2	55983	Luminant Generation Company LLC	IPP	Jayhawk	TX	59806	SOLAR	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2022	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	374.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	501.0
2022	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	257.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	312.8
2022	2	6775	Village of Freeport - (NY)	Electric Utility	Plant No 1 Freeport	NY	2678	ENG13	3.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	3.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	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
2022	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
2022	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
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	368.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	368.1
2022	3	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
2022	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
2022	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
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	11	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	12	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	1S	428.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	478.6
2022	4	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	01	600.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	600.0
2022	4	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	02	600.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	600.0
2022	4	63426	RE Bravepost LLC	IPP	RE Bravepost LLC	TX	63730	BVPST	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2022	4	62983	SE Athos I, LLC	IPP	Athos Solar Project	CA	63300	IPAT2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2022	4	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Pulp Processing Facility	FL	58997	G1001	12.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	20.0
2022	4	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2022	4	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705-S	5.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	5.0
2022	5	15399	Avangrid Renewables LLC	IPP	Camino Solar	CA	63508	CS1	44.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	44.0
2022	5	15399	Avangrid Renewables LLC	IPP	Camino Solar	CA	63508	CS2	11.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.0
2022	6	61541	1634 Solar, LLC	IPP	1634 Solar	SC	61935	3	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61222	174 Power Global Corp.	IPP	Kupehau	HI	63799	KUP01	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2022	6	61222	174 Power Global Corp.	IPP	Kupehau	HI	63799	KUPB1	60.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	60.0
2022	6	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARESS	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2022	6	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARSOL	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	6	61711	Ashley Solar (SC)	IPP	Ashley Solar (SC)	SC	62179	21	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61712	Atlantic Solar	IPP	Atlantic Solar	SC	62180	22	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	6	61713	B & K Solar	IPP	B & K Solar	SC	62181	23	63.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	63.0
2022	6	61544	Bani Solar, LLC	IPP	Bani Solar	SC	61938	4	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61714	Battle Solar	IPP	Battle Solar	SC	62182	24	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61715	Bell Solar	IPP	Bell Solar	SC	62183	25	6.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.1
2022	6	61716	Big Fork Solar	IPP	Big Fork Solar	SC	62184	26	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2022	6	61717	Birch Solar	IPP	Birch Solar	SC	62185	27	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61519	Blackville Solar Farm, LLC	IPP	Blackville Solar Farm, LLC	SC	61918	1	7.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.2
2022	6	62920	Cabin Point Solar Center LLC	IPP	Cabin Point Solar Center	VA	63134	CBNPT	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0

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)
2022	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
2022	6	61718	Chapman Solar	IPP	Chapman Solar	SC	62186	28	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61719	Clark Solar	IPP	Clark Solar	SC	62187	29	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61720	Colleton Solar	IPP	Colleton Solar	SC	62188	30	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61721	Collins Farm Solar	IPP	Collins Farm Solar	SC	62189	31	5.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.4
2022	6	61722	Crossroads Solar	IPP	Crossroads Solar	SC	62190	32	67.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	67.7
2022	6	61729	Culpepper Solar	IPP	Culpepper Solar	SC	62221	33	69.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	69.5
2022	6	61730	Dadswell Solar	IPP	Dadswell Solar	SC	62222	34	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	6	61731	Denmark Solar	IPP	Denmark Solar	SC	62211	35	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2022	6	61732	Fairfield Solar	IPP	Fairfield Solar	SC	62212	36	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2022	6	61733	Fishwater Solar	IPP	Fishwater Solar	SC	62213	37	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	7GT1	385.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	385.6
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	7GT2	385.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	385.6
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	ST7	391.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	391.8
2022	6	61735	Foreman Solar	IPP	Foreman Solar	SC	62215	39	6.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.4
2022	6	61737	GEB Solar	IPP	GEB Solar	SC	62217	40	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2022	6	61738	Gedosch Solar II	IPP	Gedosch Solar II	SC	62218	42	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	63437	Helena Wind, LLC	IPP	Helena Wind	TX	63738	HEL	175.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	175.0
2022	6	61746	Holliday Solar I	IPP	Holliday Solar I	SC	62229	43	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61749	Jackson Solar	IPP	Jackson Solar	SC	62232	46	14.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.0
2022	6	61750	Jefferson Solar	IPP	Jefferson Solar	SC	62233	47	8.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.2
2022	6	61751	Juniper Solar	IPP	Juniper Solar	SC	62234	48	65.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.5
2022	6	61752	Lone Star Solar	IPP	Lone Star Solar	SC	62235	49	66.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	66.0
2022	6	61753	Luz Solar	IPP	Luz Solar	SC	62236	50	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61755	Marshall Solar	IPP	Marshall Solar	SC	62238	52	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61796	Martin Central Solar	IPP	Martin Central Solar	SC	62285	53	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61787	Martin East Solar	IPP	Martin East Solar	SC	62276	54	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61788	Martin West Solar	IPP	Martin West Solar	SC	62277	55	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61789	McClain Solar	IPP	McClain Solar	SC	62278	56	17.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	17.3
2022	6	61790	McCormick Solar	IPP	McCormick Solar	SC	62279	57	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61791	Melsam Solar	IPP	Melsam Solar	SC	62280	58	60.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.5
2022	6	61792	Middleton Solar	IPP	Middleton Solar	SC	62281	59	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61793	Pee Dee Solar I	IPP	Pee Dee Solar I	SC	62282	60	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61794	Pee Dee Solar II	IPP	Pee Dee Solar II	SC	62283	61	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61795	Power Solar	IPP	Power Solar	SC	62284	62	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2022	6	61804	Pruger Solar I	IPP	Pruger Solar I	SC	62292	63	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61805	Pruger Solar II	IPP	Pruger Solar II	SC	62293	64	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61806	Pruger Solar III	IPP	Pruger Solar III	SC	62294	65	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT1	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT2	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT3	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT4	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT5	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT6	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT7	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	61807	Quest Solar	IPP	Quest Solar	SC	62299	66	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2022	6	62694	Rappahannock Solar, LLC	IPP	Rappahannock Solar, LLC	VA	62780	100	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2022	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	1,022.9
2022	6	61808	Rollins Solar	IPP	Rollins Solar	SC	62295	67	63.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	63.0
2022	6	61809	Ross Solar	IPP	Ross Solar	SC	62296	68	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61810	Rutledge Solar	IPP	Rutledge Solar	SC	62297	69	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61814	Sandifer Solar	IPP	Sandifer Solar	SC	62298	70	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61828	Scarlet Solar	IPP	Scarlet Solar	SC	62307	71	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61829	Shem Solar	IPP	Shem Solar	SC	62308	72	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61830	Shining Sun Solar	IPP	Shining Sun Solar	SC	62309	73	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2022	6	61831	Shorthorn Solar	IPP	Shorthorn Solar	SC	62310	74	60.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.5
2022	6	61832	Snoopy Solar	IPP	Snoopy Solar	SC	62311	75	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61833	Southard Solar	IPP	Southard Solar	SC	62312	76	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2022	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT4	237.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.0
2022	6	61834	Stamey Solar	IPP	Stamey Solar	SC	62313	77	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61835	Tarpon Solar I	IPP	Tarpon Solar I	SC	62314	78	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61836	Tedder Solar	IPP	Tedder Solar	SC	62315	79	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61837	Ten Governors Solar	IPP	Ten Governors Solar	SC	62316	80	28.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	28.0
2022	6	61862	Thomas Solar	IPP	Thomas Solar	SC	62352	81	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61861	Topaz Solar	IPP	Topaz Solar (SC)	SC	62349	82	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61860	Trask East Solar	IPP	Trask East Solar	SC	62346	83	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2022	6	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
2022	6	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
2022	6	61859	Ulmer Solar	IPP	Ulmer Solar	SC	62343	85	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2022	6	62650	Victorville Energy Center, LLC	Industrial	Victorville Energy Center, LLC (CA)	CA	62726	1	20.1	All Other	WH	ST	(P) Planned for installation, but regulatory approvals not initiated	20.1
2022	6	61868	WSW Solar	IPP	WSW Solar	SC	62350	86	10.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.8
2022	6	61863	Washington Solar (SC)	IPP	Washington Solar (SC)	SC	62342	87	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61864	Washington Solar II (SC)	IPP	Washington Solar II (SC)	SC	62344	88	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61865	Wayfair Solar	IPP	Wayfair Solar	SC	62345	89	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61866	Weaver Solar	IPP	Weaver Solar	SC	62347	90	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61869	Wysong Solar	IPP	Wysong Solar	SC	62351	92	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2022	6	61870	Yemassee Solar	IPP	Yemassee Solar	SC	62353	93	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2022	6	61871	York Solar	IPP	York Solar	SC	62354	94	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	7	49893	Invenergy Services LLC	IPP	Delilah Solar Energy LLC	TX	63194	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2022	7	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Blackbear Solar 1	AL	63765	ALBB1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	7	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2022	8	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
2022	8	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS1	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0

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)
2022	9	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS2	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	9	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	H0001	52.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	52.0
2022	9	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	HESS1	52.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	52.0
2022	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Happy Solar 1	AR	63766	ARHA1	95.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	95.0
2022	10	62709	Bakerstand Solar LLC	IPP	Bakerstand Solar (NY)	NY	62811	BKSTD	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	10	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS3	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	10	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
2022	11	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	61168	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2022	11	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	11	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
2022	12	61222	174 Power Global Corp.	IPP	Atlas	AZ	63798	ATL01	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	12	61222	174 Power Global Corp.	IPP	Atlas	AZ	63798	ATLB1	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	12	63448	Aiya Solar CEI, LLC	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	1	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	2	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2022	12	15399	Avangrid Renewables LLC	IPP	Midland Wind	IL	63003	1	115.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	115.0
2022	12	63421	Biggs Ford Solar Center, LLC	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
2022	12	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	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
2022	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
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN4	36.3	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	36.3
2022	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONR2	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2022	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONRI	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	201.0
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	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
2022	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	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
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
2022	12	61736	Gaines Solar	IPP	Gaines Solar	SC	62216	41	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	12	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2022	12	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKBA	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0
2022	12	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKSOL	30.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	30.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 1	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 2	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	49893	Invenergy Services LLC	IPP	Samson Solar Energy	TX	63211	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2022	12	49893	Invenergy Services LLC	IPP	Tip Top Solar Energy Center LLC	NM	63028	GEN1	220.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	220.0
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN1	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN2	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	1	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	2	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	3	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	4	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	5	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	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
2022	12	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center	CO	63731	NT325	325.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	375.0
2022	12	63238	OE_ALC	IPP	AL Solar C LLC	AL	63513	OEALC	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHBA	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHSOL	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2022	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
2022	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
2022	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
2022	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
2022	12	56215	RWE Renewables Americas LLC	IPP	Pinckard Solar	AL	62787	PCKND	79.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	85.1
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT1	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT2	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	ST	396.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	414.8
2022	12	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center	CO	63776	TW300	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2022	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	1	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	BBST1	335.0	Natural Gas Steam Turbine	NG	ST	(P) Planned for installation, but regulatory approvals not initiated	445.5
2023	2	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
2023	2	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
2023	3	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
2023	3	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	480.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	480.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES1	129.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	129.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES2	98.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	98.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES3	89.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	89.0
2023	4	17568	Cooperative Energy	Electric Utility	R D Morrow	MS	6061	MOR1	514.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	550.0
2023	5	62733	Cranberry Point Energy Storage LLC	IPP	Cranberry Point Energy Storage	MA	62844	NA	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	5	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	6	227.8	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	227.8
2023	5	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
2023	5	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
2023	5	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
2023	5	55983	Luminant Generation Company LLC	IPP	Hallmark	TX	63234	UNIT1	42.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	42.0
2023	5	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	4	88.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	88.0
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	LEC1	385.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	454.5

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)
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	LEC2	245.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	272.2
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	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST2	232.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	260.0
2023	6	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
2023	6	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
2023	7	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	61169	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	7	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	286.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	286.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	436.0
2023	7	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
2023	7	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
2023	9	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	BESS	135.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	135.0
2023	9	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	SBS	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	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
2023	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
2023	10	61914	Juwi Inc	IPP	Spanish Peaks Solar	CO	62379	47301	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2023	10	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA1	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2023	10	61906	Rye Development	IPP	Arkabutla Lake Hydroelectric Project	MS	62402	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Beverly L&D Hydroelectric Project	OH	62403	NA1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	10	61906	Rye Development	IPP	Devola L&D Hydroelectric Project	OH	62435	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	10	61906	Rye Development	IPP	Emsworth BC Hydroelectric Project	PA	62434	NA1	3.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA1	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.5
2023	10	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Grays Landing L&D Hydroelectric Project	PA	62388	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	10	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA1	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	10	61906	Rye Development	IPP	Lowell L&D Hydroelectric Project	OH	62429	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Maxwell L&D Hydroelectric Project	PA	62385	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Monongahela L&D4 Hydroelectric Project	PA	62404	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	10	61906	Rye Development	IPP	Morgantown L&D Hydroelectric Project	WV	62387	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Opekiska L&D Hydroelectric Project	WV	62386	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	10	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	10	61906	Rye Development	IPP	Philo L&D Hydroelectric Project	OH	62427	NA1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	10	61906	Rye Development	IPP	Point Marion L&D Hydroelectric Project	PA	62384	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Rokeby L&D Hydroelectric Project	OH	62426	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	10	61906	Rye Development	IPP	Sardis Lake Hydroelectric Project	MS	62425	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	10	62895	Vineyard Wind LLC	IPP	Vineyard Wind 1	MA	63093	VW01	800.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	800.0
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARBE1	690.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	690.0
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARPV1	280.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	380.0
2023	11	61797	Hecate Energy LLC	IPP	Hecate Energy Columbia County Solar	NY	62273	HECC1	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2023	11	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA2	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2023	11	61906	Rye Development	IPP	Arkabutla Lake Hydroelectric Project	MS	62402	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Beverly L&D Hydroelectric Project	OH	62403	NA2	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	11	61906	Rye Development	IPP	Devola L&D Hydroelectric Project	OH	62435	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Emsworth BC Hydroelectric Project	PA	62434	NA2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA2	6.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.5
2023	11	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Grays Landing L&D Hydroelectric Project	PA	62388	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA2	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA3	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA4	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA5	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	Lowell L&D Hydroelectric Project	OH	62429	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Malta L&D Hydroelectric Project	OH	62428	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Malta L&D Hydroelectric Project	OH	62428	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Maxwell L&D Hydroelectric Project	PA	62385	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Monongahela L&D4 Hydroelectric Project	PA	62404	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Morgantown L&D Hydroelectric Project	WV	62387	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Opekiska L&D Hydroelectric Project	WV	62386	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA5	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA6	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Philo L&D Hydroelectric Project	OH	62427	NA2	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	11	61906	Rye Development	IPP	Point Marion L&D Hydroelectric Project	PA	62384	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Rokeby L&D Hydroelectric Project	OH	62426	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Sardis Lake Hydroelectric Project	MS	62425	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	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
2023	12	63464	Crossroads Solar, LLC	IPP	Crossroads Solar (PA)	PA	63785	CROSS	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	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
2023	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
2023	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
2023	12	63217	Obsidian Solar Center LLC	IPP	Obsidian Solar Center	OR	63488	OBSLR	400.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	400.0
2023	12	63463	Palomino Solar, LLC	IPP	Palomino Solar	OH	63784	PLMNO	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2023	12	63488	Shady Hills Energy Center, LLC	IPP	Shady Hills Combined Cycle Facility	FL	63802	G001	546.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	573.0

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)
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCBAT	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCSOL	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2024	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
2024	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
2024	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
2024	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
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	3	63465	Candela Renewables, LLC	IPP	Rough Hat	NV	63782	RH1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	3	63465	Candela Renewables, LLC	IPP	Rough Hat 2	NV	63783	RH2	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
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	10	5416	Duke Energy Carolinas, LLC	Electric Utility	Lincoln Combustion	NC	7277	17	517.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	536.4
2024	12	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
2024	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
2024	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2024	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2024	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-C	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
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	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-1	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-2	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-3	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-4	20.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-5	20.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	PV1	0.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	0.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	STG-1	14.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	15.0
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	STOR1	8.1	Flywheels	MWH	FW	(L) Regulatory approvals pending. Not under construction	8.1
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
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	3	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	4	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	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
2025	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
2025	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
2025	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
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	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
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
2020	6	58620	AEP Generation Resources Inc	IPP	Conesville	OH	2840	4	780.0	Conventional Steam Coal	BIT	ST
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 1	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 2	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 3	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 4	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 5	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 6	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 7	0.7	Landfill Gas	LFG	IC
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	7483	City of Grand Haven - (MI)	Electric Utility	J B Sims	MI	1825	3	69.1	Conventional Steam Coal	BIT	ST
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT3	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT4	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Westport	MD	1560	GT5	115.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	A	30.0	Landfill Gas	LFG	ST
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	B	30.0	Landfill Gas	LFG	ST
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	21.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	45.1	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	33.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	27.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN6	9.0	Natural Gas Fired Combined Cycle	NG	CT
2020	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2020	7	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	10	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	20737	Willmar Municipal Utilities	Electric Utility	Willmar	MN	2022	3	16.8	Natural Gas Steam Turbine	NG	ST
2020	7	20737	Willmar Municipal Utilities	Electric Utility	Willmar	MN	2022	ST2	6.5	Natural Gas Steam Turbine	NG	ST
2020	8	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2020	8	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2020	8	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2020	9	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	9	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	9	15474	Public Service Co of Oklahoma	Electric Utility	Oklaunion	TX	127	1	650.0	Conventional Steam Coal	SUB	ST
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	10	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG1	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	10	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	1	78.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	2	238.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	3	238.0	Conventional Steam Coal	BIT	ST
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1367	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1391	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1392	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	12	803	Arizona Public Service Co	Electric Utility	Cholla	AZ	113	4	380.0	Conventional Steam Coal	SUB	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2020	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	1	73.0	Conventional Steam Coal	BIT	ST
2020	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	2	70.5	Conventional Steam Coal	BIT	ST
2020	12	6452	Florida Power & Light Co	Electric Utility	Indiantown Cogeneration LP	FL	50976	GEN1	330.0	Conventional Steam Coal	BIT	ST
2020	12	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	1	40.0	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

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	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	7	0.6	Petroleum Liquids	DFO	IC
2020	12	58341	McKinley Paper Co. - Washington Mill	Industrial	McKinley Paper Co. - Washington Mill	WA	58352	G-11	20.0	Wood/Wood Waste Biomass	WDS	ST
2020	12	55269	NextEra Energy Duane Arnold LLC	IPP	Duane Arnold Energy Center	IA	1060	1	601.4	Nuclear	NUC	ST
2020	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Escalante	NM	87	1	253.0	Conventional Steam Coal	SUB	ST
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	1	6.5	Natural Gas Fired Combined Cycle	NG	CA
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	2	6.5	Natural Gas Fired Combined Cycle	NG	CA
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	3	7.0	Natural Gas Fired Combined Cycle	NG	CA
2021	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN1	52.5	Conventional Steam Coal	BIT	ST
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN2	52.5	Conventional Steam Coal	BIT	ST
2021	2	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
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	3A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	4A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	6	0.6	Petroleum Liquids	DFO	IC
2021	3	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	1	53.1	Conventional Steam Coal	LIG	ST
2021	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,037.9	Nuclear	NUC	ST
2021	5	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST1	222.5	Conventional Steam Coal	BIT	ST
2021	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	3	103.1	Natural Gas Steam Turbine	NG	ST
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	6	24.0	Petroleum Liquids	DFO	GT
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	A1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B2	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B3	2.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B4	2.0	Petroleum Liquids	DFO	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	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2021	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	3	383.4	Conventional Steam Coal	SUB	ST
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	1	2.6	Petroleum Liquids	DFO	IC
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	2	1.1	Petroleum Liquids	DFO	IC
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	6	1.8	Petroleum Liquids	DFO	IC
2021	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	1575	1.6	Conventional Hydroelectric	WAT	HY
2021	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	500	0.5	Conventional Hydroelectric	WAT	HY
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	ST2	385.0	Conventional Steam Coal	BIT	ST
2021	11	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L2G	2.0	Petroleum Liquids	DFO	IC
2021	12	4716	Dairyland Power Coop	Electric Utility	Genoa	WI	4143	ST3	307.5	Conventional Steam Coal	SUB	ST
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	12.5	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.4	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	60558	Rock County Energy Center, LLC	IPP	Minwind 3-9	MN	56123	1	11.6	Onshore Wind Turbine	WND	WT
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	1	29.5	Conventional Steam Coal	LIG	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	2	74.8	Conventional Steam Coal	LIG	ST
2022	3	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L1G	2.0	Petroleum Liquids	DFO	IC
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	1	809.0	Petroleum Liquids	RFO	ST
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	2	809.0	Petroleum Liquids	RFO	ST
2022	5	5109	DTE Electric Company	Electric Utility	River Rouge	MI	1740	3	272.0	Conventional Steam Coal	SUB	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	2	154.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	3	160.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	6	311.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	7	440.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	9	495.0	Conventional Steam Coal	SUB	ST
2022	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC

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	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	1	644.0	Conventional Steam Coal	RC	ST
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	2	644.0	Conventional Steam Coal	RC	ST
2022	6	11241	Entergy Louisiana LLC	Electric Utility	Sterlington	LA	1404	7A	47.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	771.6	Nuclear	NUC	ST
2022	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	1	211.6	Natural Gas Steam Turbine	NG	ST
2022	6	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO 1	7.8	Wood/Wood Waste Biomass	BLQ	ST
2022	6	14584	Pawtucket Power Associates LP	IPP	Pawtucket Power Associates	RI	54056	GEN1	33.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	1	340.0	Conventional Steam Coal	RC	ST
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	4	507.0	Conventional Steam Coal	RC	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	1	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	2	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	3	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	9	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	1	565.7	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	2	580.5	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	4	3.0	Petroleum Liquids	DFO	IC
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	5	3.0	Petroleum Liquids	DFO	IC
2022	12	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	6	77.0	Conventional Steam Coal	SUB	ST
2022	12	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	7	131.0	Conventional Steam Coal	SUB	ST
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	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	76.0	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
2022	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	1	118.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	2	118.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	3	260.0	Conventional Steam Coal	SUB	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	4	334.0	Conventional Steam Coal	SUB	ST
2022	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	5	413.6	Conventional Steam Coal	SUB	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	1	57301	Orchard Mesa Irrigation District	Electric Utility	Grand Valley Project Power Plant	CO	473	1	1.5	Conventional Hydroelectric	WAT	HY
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	1	1.1	Petroleum Liquids	DFO	IC
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	2	0.8	Petroleum Liquids	DFO	IC
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	3	1.0	Petroleum Liquids	DFO	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	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	1A	127.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	1B	127.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2A	126.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2B	126.5	Conventional Steam Coal	SUB	ST
2023	5	9267	Hoosier Energy R E C, Inc	Electric Utility	Merom	IN	6213	1	497.0	Conventional Steam Coal	BIT	ST
2023	5	9267	Hoosier Energy R E C, Inc	Electric Utility	Merom	IN	6213	2	494.0	Conventional Steam Coal	BIT	ST
2023	5	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST2	421.8	Conventional Steam Coal	BIT	ST
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-1	35.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-2	34.2	Natural Gas Fired Combustion Turbine	NG	GT

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
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-3	36.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-4	35.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-1	34.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-2	35.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-3	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-4	36.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-1	31.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-2	33.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-3	34.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-4	33.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	18488	City of Taunton	Electric Utility	Cleary Flood Hybrid	MA	1682	8	26.0	Petroleum Liquids	RFO	ST
2023	6	12685	Entergy Mississippi LLC	Electric Utility	Baxter Wilson	MS	2050	1	494.3	Natural Gas Steam Turbine	NG	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	14	431.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	15	472.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	17	361.0	Conventional Steam Coal	BIT	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	18	361.0	Conventional Steam Coal	BIT	ST
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	3	177.7	Conventional Steam Coal	BIT	ST
2023	12	15908	GenOn California South, LP	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2023	12	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
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	163.0	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	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	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
2023	12	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	870.0	Conventional Steam Coal	BIT	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	1	4.7	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	2	4.8	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	3	11.0	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	4	11.9	Petroleum Liquids	RFO	ST
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	73	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	74	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	81	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	82	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	83	64.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	84	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	11241	Entergy Louisiana LLC	Electric Utility	Waterford 1 & 2	LA	8056	2	417.3	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	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	1	217.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	2	230.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	3	412.0	Natural Gas Steam Turbine	NG	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	1	162.0	Conventional Steam Coal	BIT	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
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	2	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	3	258.0	Conventional Steam Coal	BIT	ST
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	1	16.7	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	111.8	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	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	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	1	17568	Cooperative Energy	Electric Utility	Moselle	MS	2070	3	59.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	1	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	2	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	3	273.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	4	552.0	Natural Gas Steam Turbine	NG	ST
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	1	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	2	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	3	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	10wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	11wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	12wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	13WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	14wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	15WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	16WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	17WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	1WT	0.6	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	2WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	3WT	0.2	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	4WT	0.5	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	5WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	6WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	7WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	8WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	9wt	0.1	Onshore Wind Turbine	WND	WT
2025	6	814	Entergy Arkansas LLC	Electric Utility	Lake Catherine	AR	170	4	522.0	Natural Gas Steam Turbine	NG	ST
2025	7	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	7	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	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
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	51.0	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	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
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	Conventional Steam Coal	SUB	ST
2025	12	17698	Southwestern Electric Power Co	Electric Utility	Arsenal Hill	LA	1416	5	110.0	Natural Gas Steam Turbine	NG	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	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	427.0	Conventional Steam Coal	SUB	ST
2026	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	2	415.0	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	3	359.0	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	4	512.5	Natural Gas Steam Turbine	NG	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	12.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	13.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	5.0	Natural Gas Fired Combustion Turbine	NG	GT
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	95.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	89.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	56997	Marina Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT1	0.8	Solar Photovoltaic	SUN	PV
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	1	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	2	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	3	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	5	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	6	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	7	1.8	Petroleum Liquids	DFO	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	8	1.8	Petroleum Liquids	DFO	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	2	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fruita	CO	471	1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	6	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2027	1	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	3	220.0	Conventional Steam Coal	SUB	ST
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HH	0.5	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HII	0.4	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HJC	0.2	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	UNIT1	2.7	Solar Photovoltaic	SUN	PV
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED01	150.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED02	150.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED03	150.0	Natural Gas Fired Combined Cycle	NG	CA
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	1	900.0	Conventional Steam Coal	BIT	ST
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	2	900.0	Conventional Steam Coal	BIT	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	1	1.8	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	2	1.8	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	3	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	4	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	5	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	6	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	7	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	8	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	4	310.0	Natural Gas Steam Turbine	NG	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	2	0.6	Conventional Hydroelectric	WAT	HY
2027	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	4	190.0	Natural Gas Steam Turbine	NG	ST
2028	1	56997	Marina Energy LLC	IPP	Freeze Solar	NJ	60759	PV1	1.5	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	A	0.8	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	B	0.2	Solar Photovoltaic	SUN	PV

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
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	C	0.2	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HM	0.8	Solar Photovoltaic	SUN	PV
2028	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Michigan City	IN	997	12	455.0	Conventional Steam Coal	SUB	ST
2028	9	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	2	410.0	Conventional Steam Coal	SUB	ST
2028	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	2	410.0	Natural Gas Steam Turbine	NG	ST
2028	12	61944	GSRP	IPP	ACCC Mays Landing	NJ	60802	PV1	1.4	Solar Photovoltaic	SUN	PV
2028	12	61944	GSRP	IPP	IFF Hazlet	NJ	60709	GRND	3.0	Solar Photovoltaic	SUN	PV
2028	12	9324	Indiana Michigan Power Co	Electric Utility	Rockport	IN	6166	1	1,300.0	Conventional Steam Coal	SUB	ST
2028	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	1	112.0	Natural Gas Steam Turbine	NG	ST
2029	5	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST1	635.0	Conventional Steam Coal	RC	ST
2029	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	3	517.4	Natural Gas Steam Turbine	NG	ST
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	73.5	Onshore Wind Turbine	WND	WT
2029	12	3989	City of Colorado Springs - (CO)	Electric Utility	Ray D Nixon	CO	8219	1	208.0	Conventional Steam Coal	SUB	ST
2030		30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	3	448.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	1	831.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	2	858.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	3	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	31	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	32	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	33	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	34	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	4	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	41	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	42	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	43	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	44	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	51	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	52	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	53	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	54	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	55	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	56	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	5	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST2	635.0	Conventional Steam Coal	RC	ST
2030	12	40230	Deseret Generation & Tran Coop	Electric Utility	Bonanza	UT	7790	1	458.0	Conventional Steam Coal	BIT	ST
2030	12	15143	Platte River Power Authority	Electric Utility	Rawhide	CO	6761	1	280.0	Conventional Steam Coal	SUB	ST
2030	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	3	244.0	Natural Gas Steam Turbine	NG	ST
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2031	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	6(4)	729.5	Natural Gas Steam Turbine	NG	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	4	770.0	Conventional Steam Coal	SUB	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	5	770.0	Conventional Steam Coal	SUB	ST
2031	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	1	243.0	Natural Gas Steam Turbine	NG	ST
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	1	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	2	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2033	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	5	743.8	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	1	249.0	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	2	254.0	Natural Gas Steam Turbine	NG	ST
2034	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	3	876.0	Conventional Steam Coal	SUB	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	2	243.0	Natural Gas Steam Turbine	NG	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Quay County	NM	58125	1	17.0	Petroleum Liquids	DFO	GT
2035	6	12685	Entergy Mississippi LLC	Electric Utility	Gerald Andrus	MS	8054	1	727.5	Natural Gas Steam Turbine	NG	ST
2036	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	1	339.0	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
2037	11	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	1	532.0	Conventional Steam Coal	SUB	ST
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	2	535.0	Conventional Steam Coal	SUB	ST
2038	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	2	339.0	Conventional Steam Coal	SUB	ST
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	4	172.0	Natural Gas Fired Combined Cycle	NG	CA
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	41	165.0	Natural Gas Fired Combined Cycle	NG	CT
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	42	165.0	Natural Gas Fired Combined Cycle	NG	CT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	3	106.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	4	103.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	3	340.0	Conventional Steam Coal	SUB	ST
2043	12	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	5	664.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	6	663.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	7	577.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	8	610.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2045	1	58365	Petra Nova Power I LLC	IPP	W.A. Parish Carbon Capture Plant	TX	58378	GT2	74.0	Natural Gas Fired Combustion Turbine	NG	GT
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2049	4	61612	Panda Solar NC 1, LLC	IPP	Panda Solar NC 1, LLC	NC	62089	20002	1.0	Solar Photovoltaic	SUN	PV
2049	4	61655	Panda Solar NC 2, LLC	IPP	Panda Solar NC 2, LLC	NC	62120	20003	2.0	Solar Photovoltaic	SUN	PV
2049	6	61663	Panda Solar NC 10, LLC	IPP	Panda Solar NC 10, LLC	NC	62128	20031	2.0	Solar Photovoltaic	SUN	PV
2049	6	61664	Panda Solar NC 11, LLC	IPP	Panda Solar NC 11, LLC	NC	62129	20032	2.0	Solar Photovoltaic	SUN	PV
2049	6	61656	Panda Solar NC 3, LLC	IPP	Panda Solar NC 3, LLC	NC	62121	20011	2.0	Solar Photovoltaic	SUN	PV
2049	6	61658	Panda Solar NC 5, LLC	IPP	Panda Solar NC 5, LLC	NC	62123	20007	1.0	Solar Photovoltaic	SUN	PV
2049	6	61660	Panda Solar NC 6, LLC	IPP	Panda Solar NC 6, LLC	NC	62124	20028	1.0	Solar Photovoltaic	SUN	PV
2049	6	61662	Panda Solar NC 9, LLC	IPP	Panda Solar NC 9, LLC	NC	62127	20022	2.0	Solar Photovoltaic	SUN	PV
2049	9	61661	Panda Solar NC 8, LLC	IPP	Panda Solar NC 8, LLC	NC	62126	20052	2.0	Solar Photovoltaic	SUN	PV
2056	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	3	166.0	Natural Gas Fired Combustion Turbine	NG	GT
2058	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	4	168.0	Natural Gas Fired Combustion Turbine	NG	GT

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 6.07.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels

	Coal		Natural Gas								Petroleum					
Year/Month			Combined Cycle		Gas Turbine		Steam Turbine		Internal Combustion		Steam Turbine		Gas Turbine		Internal Combustion	
	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor
Annual Data																
2010	313,393.9	67.1%	202,404.4	44.3%	116,426.0	7.8%	80,233.7	11.1%	2,543.0	6.5%	29,871.2	13.6%	19,565.5	2.0%	5,016.0	2.1%
2011	314,056.1	62.8%	210,518.7	44.3%	119,144.1	7.9%	78,898.6	11.7%	2,822.5	8.4%	26,683.0	12.6%	18,397.7	1.3%	4,986.0	2.2%
2012	304,974.9	56.2%	217,938.2	52.2%	119,319.4	8.9%	74,200.2	13.3%	2,988.8	7.3%	22,483.7	13.7%	17,773.5	1.3%	4,942.5	2.0%
2013	302,604.4	59.4%	219,902.9	48.8%	123,025.6	8.3%	75,810.5	11.2%	2,996.2	8.8%	20,022.9	12.6%	17,224.1	0.9%	4,999.4	2.1%
2014	299,064.7	60.5%	224,183.2	48.6%	124,736.9	8.3%	75,049.1	10.3%	3,026.7	10.8%	18,057.0	13.0%	16,791.5	1.2%	5,011.3	2.1%
2015	286,082.7	54.3%	231,467.5	55.8%	123,444.3	9.8%	80,348.0	11.3%	3,507.8	11.9%	14,965.4	14.0%	16,122.8	1.3%	5,075.2	2.1%
2016	269,477.1	52.8%	236,442.8	55.4%	125,148.4	11.0%	81,225.1	12.3%	3,684.3	11.5%	13,993.7	12.2%	15,114.0	1.3%	5,082.8	2.3%
2017	259,930.2	53.1%	242,839.1	51.2%	125,806.6	9.6%	79,149.4	10.7%	4,225.5	11.6%	13,290.9	13.7%	14,275.3	1.0%	5,153.3	2.1%
2018	246,866.8	53.6%	254,403.3	55.0%	126,763.4	11.9%	76,177.8	12.6%	4,446.6	13.0%	13,300.1	14.2%	14,234.9	1.3%	5,289.7	1.9%
2019	235,534.1	47.5%	267,130.4	56.8%	128,480.5	11.8%	73,591.7	14.3%	4,844.3	13.9%	11,712.2	12.7%	14,192.6	1.1%	5,250.4	2.2%
Year 2018																
January	251,730.8	64.0%	247,709.0	51.4%	126,362.3	11.7%	78,615.1	10.9%	4,280.9	11.8%	13,440.4	19.9%	14,336.6	3.5%	5,330.8	2.5%
February	250,522.8	49.1%	247,709.0	51.6%	126,189.1	9.3%	78,185.1	5.8%	4,292.9	12.0%	13,440.4	12.1%	14,336.6	0.8%	5,333.5	1.8%
March	249,781.8	43.8%	247,709.0	49.1%	126,170.5	10.3%	77,411.2	7.5%	4,288.5	11.9%	13,440.4	10.9%	14,336.6	0.9%	5,326.9	1.8%
April	248,603.8	41.5%	248,199.0	45.6%	126,338.5	10.5%	77,369.9	8.5%	4,372.4	10.9%	13,440.4	12.9%	14,336.6	1.0%	5,317.8	2.0%
May	248,603.8	46.7%	252,604.7	49.8%	126,690.5	11.3%	76,359.3	15.3%	4,372.4	12.0%	13,440.4	10.0%	14,336.6	1.1%	5,319.2	1.8%
June	245,407.8	58.0%	255,100.3	58.7%	126,881.1	12.4%	75,658.1	16.3%	4,362.4	13.1%	13,440.4	15.0%	14,166.6	1.4%	5,275.1	1.8%
July	245,407.8	63.8%	256,721.3	69.8%	126,878.6	16.3%	75,658.1	23.3%	4,369.0	18.3%	13,440.4	16.6%	14,166.6	1.5%	5,276.5	1.8%
August	245,407.8	63.6%	257,487.3	69.3%	127,267.4	15.0%	75,658.1	20.3%	4,594.6	16.9%	13,440.4	15.6%	14,166.6	1.3%	5,277.8	2.1%
Sept	245,113.4	55.3%	258,463.3	63.2%	127,146.3	13.8%	75,650.6	15.6%	4,594.3	13.8%	13,440.4	16.9%	14,166.6	1.3%	5,274.0	2.0%
October	244,837.5	48.5%	258,836.7	52.9%	127,104.0	11.6%	75,120.6	12.6%	4,595.0	12.4%	13,440.4	13.7%	14,166.6	1.1%	5,269.0	2.0%
November	244,426.5	53.2%	260,948.0	48.8%	126,977.7	10.5%	74,758.6	8.7%	4,613.6	11.7%	13,440.4	13.4%	14,154.6	1.1%	5,240.4	1.8%
December	242,785.6	55.9%	260,868.5	48.9%	127,108.3	9.1%	73,841.6	6.3%	4,613.6	11.0%	11,788.4	12.6%	14,154.6	1.0%	5,237.9	1.7%
Year 2019																
January	242,491.4	56.5%	263,679.0	54.0%	127,778.9	8.0%	73,634.6	8.7%	4,631.1	10.0%	11,788.4	12.8%	14,214.1	0.7%	5,248.6	2.0%
February	239,557.9	50.4%	263,679.0	55.3%	127,778.9	8.5%	74,619.1	8.0%	4,703.6	12.3%	11,788.4	12.8%	14,214.1	0.6%	5,250.6	1.7%
March	238,326.9	45.0%	263,362.0	50.0%	127,780.0	8.0%	74,010.1	9.0%	4,703.6	10.9%	11,855.4	12.2%	14,195.1	0.5%	5,247.8	1.6%
April	236,845.5	35.9%	266,197.3	45.0%	127,893.2	9.6%	74,005.8	11.0%	4,882.5	10.0%	11,709.4	11.1%	14,195.1	0.8%	5,245.4	1.8%
May	236,095.5	41.7%	266,482.7	48.6%	128,385.3	10.2%	74,005.8	13.8%	4,882.5	10.5%	11,709.4	15.8%	14,195.1	1.0%	5,254.2	2.1%
June	235,987.9	47.0%	268,187.8	59.6%	128,502.4	11.4%	73,711.1	16.4%	4,883.4	12.7%	11,709.4	15.0%	14,184.8	1.1%	5,254.2	2.3%
July	235,005.4	58.4%	269,033.1	69.8%	128,862.6	19.3%	73,681.1	24.7%	4,905.4	21.1%	11,709.4	16.7%	14,184.8	2.3%	5,255.9	3.0%
August	235,005.4	54.6%	269,033.1	70.8%	128,962.6	18.7%	73,681.1	25.3%	4,905.4	22.0%	11,709.4	16.4%	14,179.1	2.4%	5,247.6	3.2%
Sept	234,817.4	51.6%	269,033.1	63.9%	128,922.6	14.8%	73,681.1	19.9%	4,905.4	17.6%	11,642.4	15.1%	14,192.6	1.6%	5,251.6	2.7%
October	233,595.4	39.2%	268,480.5	54.8%	129,000.1	13.6%	73,196.1	15.9%	4,905.4	14.5%	11,642.4	8.9%	14,192.6	1.5%	5,251.6	2.4%
November	229,673.4	46.0%	269,047.5	52.3%	128,966.1	10.7%	73,023.1	9.2%	4,905.4	13.6%	11,642.4	7.5%	14,192.6	0.6%	5,251.6	2.1%
December	229,241.4	43.2%	269,143.4	57.0%	128,876.8	8.8%	71,952.3	8.6%	4,910.3	11.1%	11,642.4	7.9%	14,172.6	0.5%	5,245.2	1.8%
Year 2020																
January	227,611.7	39.1%	269,932.4	58.5%	128,783.4	8.9%	71,503.5	9.0%	4,927.8	10.2%	11,610.7	11.1%	14,082.8	0.9%	5,228.9	1.8%
February	227,178.5	36.4%	270,379.7	58.8%	128,899.7	9.5%	70,137.2	9.9%	5,024.8	11.3%	11,597.9	8.2%	14,097.4	0.7%	5,254.9	1.8%
March	225,799.1	30.9%	271,636.7	52.1%	128,842.1	9.7%	70,547.7	11.1%	5,028.6	12.7%	11,601.8	13.4%	13,836.1	0.7%	5,271.6	1.6%
April	225,819.2	25.5%	272,708.9	47.3%	128,823.6	8.0%	70,431.8	10.5%	5,117.5	10.5%	11,594.3	12.9%	13,943.9	0.6%	5,267.1	1.5%
May	224,525.1	28.4%	274,338.4	48.2%	129,014.3	9.3%	70,285.4	12.4%	5,157.5	11.1%	11,594.3	11.6%	13,770.4	0.8%	5,268.1	1.4%

Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.
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 6.07.B. Capacity Factors for Utility Scale Generators Primarily Using Non-Fossil Fuels

Year/Month	Geothermal		Hydroelectric		Nuclear		Other Biomass		Other Gas		Solar				Wind		Wood	
											Photovoltaic		Thermal					
	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor
Annual Data																		
2010	2,392.1	71.6%	78,810.3	37.5%	101,167.4	91.1%	4,298.7	64.2%	1,929.0	50.5%	206.8	20.2%	473.0	24.5%	35,702.6	29.7%	6,991.5	61.5%
2011	2,407.9	71.5%	78,564.7	45.8%	101,265.1	89.1%	4,469.8	64.2%	1,902.7	54.1%	537.0	19.0%	485.3	23.9%	42,019.2	32.1%	7,000.3	59.6%
2012	2,531.8	68.3%	78,296.6	39.6%	101,166.0	86.6%	4,639.7	63.3%	1,802.8	59.6%	1,527.1	20.4%	476.0	23.6%	49,458.0	31.8%	7,089.1	61.3%
2013	2,509.5	71.8%	78,873.5	38.8%	99,006.8	90.8%	4,949.7	62.3%	2,171.6	55.9%	3,525.2	24.5%	552.1	17.4%	59,175.6	32.4%	7,887.9	59.0%
2014	2,513.3	72.0%	79,582.8	37.2%	98,569.3	91.7%	5,114.6	62.7%	1,994.0	54.0%	6,555.6	25.6%	1,445.3	18.3%	60,587.8	34.0%	8,319.7	60.0%
2015	2,523.0	71.9%	79,650.8	35.7%	98,614.6	92.3%	5,104.5	62.6%	2,527.7	60.8%	9,521.6	25.5%	1,697.3	21.7%	67,106.2	32.2%	9,024.5	59.3%
2016	2,516.6	71.6%	79,806.0	38.2%	99,364.8	92.3%	5,099.5	62.7%	2,458.8	64.8%	14,161.4	25.0%	1,757.9	22.1%	74,162.7	34.5%	8,979.8	58.3%
2017	2,460.4	73.2%	79,698.8	43.0%	99,619.5	92.3%	5,125.6	61.8%	2,375.8	62.8%	21,940.9	25.6%	1,757.9	21.8%	83,355.6	34.6%	8,807.5	60.2%
2018	2,391.5	76.0%	79,771.9	41.9%	99,605.2	92.5%	5,059.0	61.8%	2,543.9	65.4%	27,143.3	25.1%	1,757.9	23.6%	89,228.5	34.6%	8,760.2	60.6%
2019	2,457.2	74.4%	79,824.2	39.1%	98,787.9	93.5%	4,983.1	59.2%	2,547.7	67.0%	31,832.9	24.5%	1,757.9	21.2%	97,649.0	34.8%	8,501.4	60.9%
Year 2018																		
January	2,387.5	75.3%	79,771.8	42.2%	99,730.6	100.6%	5,108.5	62.2%	2,543.9	66.2%	25,311.1	16.3%	1,757.9	10.0%	87,552.6	38.7%	8,813.0	65.3%
February	2,403.5	78.9%	79,771.8	46.4%	99,730.6	96.7%	5,083.1	64.6%	2,543.9	66.6%	25,968.4	20.9%	1,757.9	16.1%	88,563.2	38.8%	8,813.0	62.5%
March	2,382.2	76.8%	79,785.3	43.6%	99,730.6	90.3%	5,086.1	62.0%	2,543.9	63.3%	26,067.6	24.3%	1,757.9	19.2%	88,787.7	40.1%	8,780.5	61.7%
April	2,392.2	69.0%	79,792.3	48.9%	99,730.6	82.4%	5,086.1	60.9%	2,543.9	61.6%	26,591.3	29.7%	1,757.9	24.4%	88,789.2	41.3%	8,780.5	55.6%
May	2,392.2	77.7%	79,753.3	51.3%	99,730.6	90.7%	5,083.5	59.4%	2,543.9	63.2%	26,859.7	31.8%	1,757.9	32.9%	89,086.2	36.0%	8,761.5	58.0%
June	2,392.2	75.5%	79,753.8	48.1%	99,730.6	97.1%	5,006.9	63.0%	2,543.9	64.1%	27,291.3	34.9%	1,757.9	41.7%	89,078.2	38.4%	8,775.5	61.7%
July	2,392.2	77.0%	79,751.6	42.3%	99,730.6	97.7%	5,050.2	62.3%	2,543.9	65.8%	27,451.7	31.1%	1,757.9	30.1%	89,227.2	24.7%	8,767.2	63.7%
August	2,392.2	76.8%	79,751.6	37.1%	99,730.6	97.4%	5,042.5	62.6%	2,543.9	68.7%	27,590.1	30.5%	1,757.9	32.5%	89,387.5	29.8%	8,748.7	62.2%
Sept	2,392.2	77.1%	79,751.6	33.4%	99,277.9	90.3%	5,042.5	58.3%	2,543.9	67.2%	27,674.0	27.7%	1,757.9	34.8%	89,469.5	28.6%	8,748.7	58.5%
October	2,392.2	71.5%	79,753.6	32.9%	99,277.9	80.4%	5,041.4	61.0%	2,543.9	64.3%	27,989.5	22.4%	1,757.9	20.7%	89,941.8	31.5%	8,748.7	56.5%
November	2,392.2	77.3%	79,753.6	38.1%	99,432.9	89.3%	5,039.0	62.3%	2,543.9	67.4%	28,158.3	17.3%	1,757.9	13.3%	90,282.8	33.8%	8,694.6	60.4%
December	2,387.9	79.4%	79,870.8	38.4%	99,432.9	96.9%	5,038.6	63.2%	2,543.9	67.0%	28,690.2	13.7%	1,757.9	7.0%	90,534.1	34.8%	8,694.6	61.4%
Year 2019																		
January	2,451.2	77.8%	79,868.4	40.7%	99,391.6	99.7%	5,030.5	59.8%	2,543.9	67.4%	30,261.1	15.5%	1,757.9	8.4%	94,391.7	35.5%	8,641.1	62.9%
February	2,451.2	79.4%	79,879.1	40.7%	99,391.6	96.9%	5,030.5	59.3%	2,543.9	68.9%	30,924.8	17.7%	1,757.9	10.9%	95,314.5	35.8%	8,641.1	62.6%
March	2,451.2	78.8%	79,895.1	43.0%	99,391.6	88.0%	4,996.6	58.1%	2,543.9	64.8%	31,132.5	24.2%	1,757.9	19.8%	95,806.3	36.4%	8,490.4	58.6%
April	2,459.1	70.0%	79,895.1	44.3%	99,546.6	84.5%	4,996.6	56.4%	2,548.9	63.2%	31,355.3	28.8%	1,757.9	25.5%	96,636.3	42.6%	8,567.3	56.4%
May	2,459.1	73.6%	79,875.2	50.6%	98,873.0	90.9%	4,991.0	58.7%	2,548.9	65.6%	31,444.8	29.3%	1,757.9	25.7%	96,638.1	36.0%	8,552.3	59.2%
June	2,459.1	76.9%	79,879.1	46.0%	98,873.0	96.7%	4,971.5	61.0%	2,548.9	66.1%	31,508.0	33.1%	1,757.9	35.5%	96,867.6	32.6%	8,482.8	61.8%
July	2,459.1	77.2%	79,880.6	39.9%	98,873.0	98.1%	4,973.1	60.3%	2,548.9	70.2%	31,818.6	32.6%	1,757.9	31.4%	98,111.7	30.0%	8,512.2	63.7%
August	2,459.1	77.0%	79,741.2	35.4%	98,873.0	97.8%	4,969.2	60.8%	2,548.9	67.1%	32,054.4	31.2%	1,757.9	32.0%	98,387.3	26.9%	8,512.2	66.3%
Sept	2,459.1	78.2%	79,741.0	28.4%	98,070.2	93.1%	4,959.3	59.4%	2,548.9	69.0%	32,276.1	27.4%	1,757.9	24.3%	98,936.2	33.9%	8,422.9	60.9%
October	2,459.1	69.8%	79,746.4	27.5%	98,070.2	85.0%	4,961.0	59.0%	2,548.9	61.5%	32,511.0	23.5%	1,757.9	23.0%	99,786.0	37.8%	8,415.9	57.2%
November	2,459.1	62.8%	79,746.4	35.7%	98,070.2	90.8%	4,962.4	58.4%	2,548.9	72.6%	32,999.2	17.5%	1,757.9	11.3%	99,952.8	35.4%	8,415.9	59.5%
December	2,459.1	71.1%	79,746.4	37.4%	98,070.2	100.1%	4,958.6	59.7%	2,548.9	68.3%	33,647.2	13.1%	1,757.9	5.4%	100,791.5	35.6%	8,372.9	62.2%
Year 2020																		
January	2,471.7	68.3%	79,851.9	40.9%	98,042.4	101.7%	4,909.5	61.0%	2,548.9	70.2%	35,466.7	16.3%	1,758.1	8.1%	103,575.3	36.7%	8,422.4	62.3%
February	2,557.7	64.2%	79,735.1	45.2%	98,119.0	96.6%	4,845.5	59.8%	2,548.9	70.2%	36,703.3	21.2%	1,758.1	14.5%	104,297.9	40.3%	8,402.9	62.2%
March	2,557.7	77.7%	79,787.7	37.5%	98,119.0	87.7%	4,844.4	62.9%	2,542.5	61.1%	37,229.4	21.9%	1,758.1	14.6%	104,358.6	37.8%	8,402.9	59.4%
April	2,557.7	73.1%	79,762.2	36.2%	97,102.9	83.9%	4,738.2	62.6%	2,542.5	59.7%	37,346.4	28.2%	1,758.1	24.2%	105,857.1	38.7%	8,398.1	58.3%
May	2,555.4	74.2%	79,763.4	49.7%	97,102.9	89.1%	4,723.7	61.6%	2,542.5	61.6%	38,046.0	32.3%	1,758.1	31.5%	106,104.3	35.4%	8,372.4	57.7%

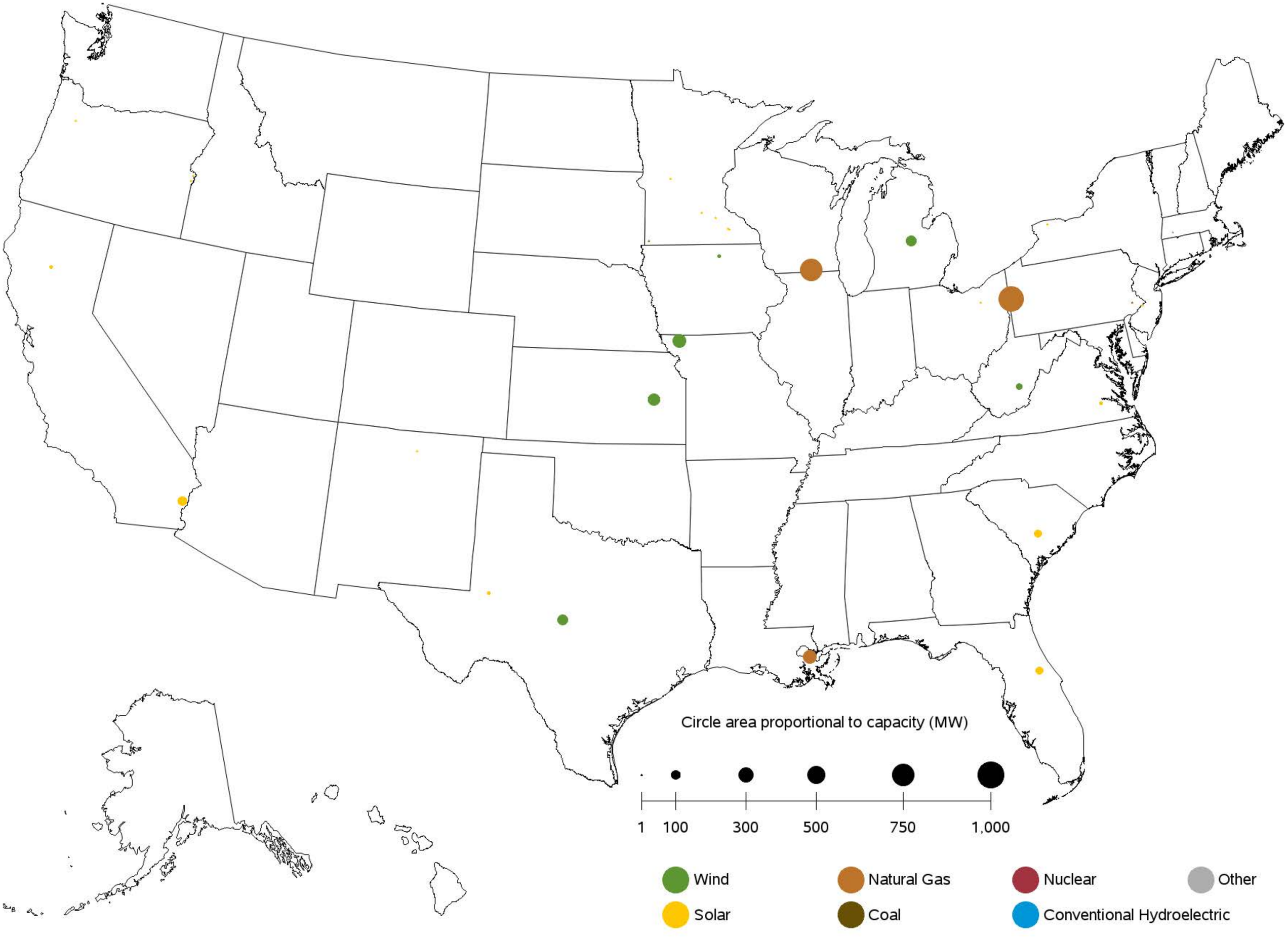
Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.
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 6.07.C. Usage Factors for Utility Scale Storage Generators

	Battery		Pumped Storage	
Year/Month	Time Adjusted Capacity	Usage Factor	Time Adjusted Capacity	Usage Factor
Annual Data				
2013	126.7	0.7%	22,389.3	9.8%
2014	155.1	1.7%	22,477.9	10.2%
2015	206.8	3.6%	22,568.9	10.2%
2016	423.0	3.8%	22,752.7	11.2%
2017	632.8	6.8%	22,791.7	11.4%
2018	713.6	5.2%	22,815.4	10.8%
2019	952.3	4.0%	22,849.2	10.4%
Year 2018				
January	643.7	5.2%	22,785.2	9.8%
February	663.5	5.1%	22,785.2	9.6%
March	667.1	5.2%	22,785.2	7.9%
April	681.1	5.0%	22,785.2	8.2%
May	690.6	5.2%	22,830.2	11.0%
June	696.1	4.9%	22,830.2	13.2%
July	742.1	5.6%	22,830.2	15.5%
August	740.1	5.6%	22,830.2	16.1%
Sept	746.4	5.6%	22,830.2	12.2%
October	748.9	5.0%	22,830.2	9.4%
November	768.9	5.3%	22,830.2	8.2%
December	770.7	5.1%	22,830.2	7.7%
Year 2019				
January	861.3	3.8%	22,799.2	9.3%
February	873.6	4.2%	22,799.2	9.1%
March	898.4	5.2%	22,799.2	8.3%
April	927.5	4.5%	22,821.2	10.1%
May	943.5	4.5%	22,821.2	11.8%
June	948.5	3.7%	22,878.2	11.6%
July	968.9	3.7%	22,878.2	15.0%
August	977.4	3.5%	22,878.2	13.6%
Sept	996.4	4.5%	22,878.2	12.3%
October	1,004.3	3.4%	22,878.2	8.2%
November	1,008.6	3.7%	22,878.2	7.1%
December	1,013.6	3.5%	22,878.2	7.8%
Year 2020				
January	1,013.4	4.0%	22,880.9	9.0%
February	1,013.7	4.6%	22,880.9	9.1%
March	1,021.2	4.9%	22,882.1	7.9%
April	1,036.0	4.2%	22,900.1	8.2%
May	1,045.9	3.9%	22,898.9	10.8%

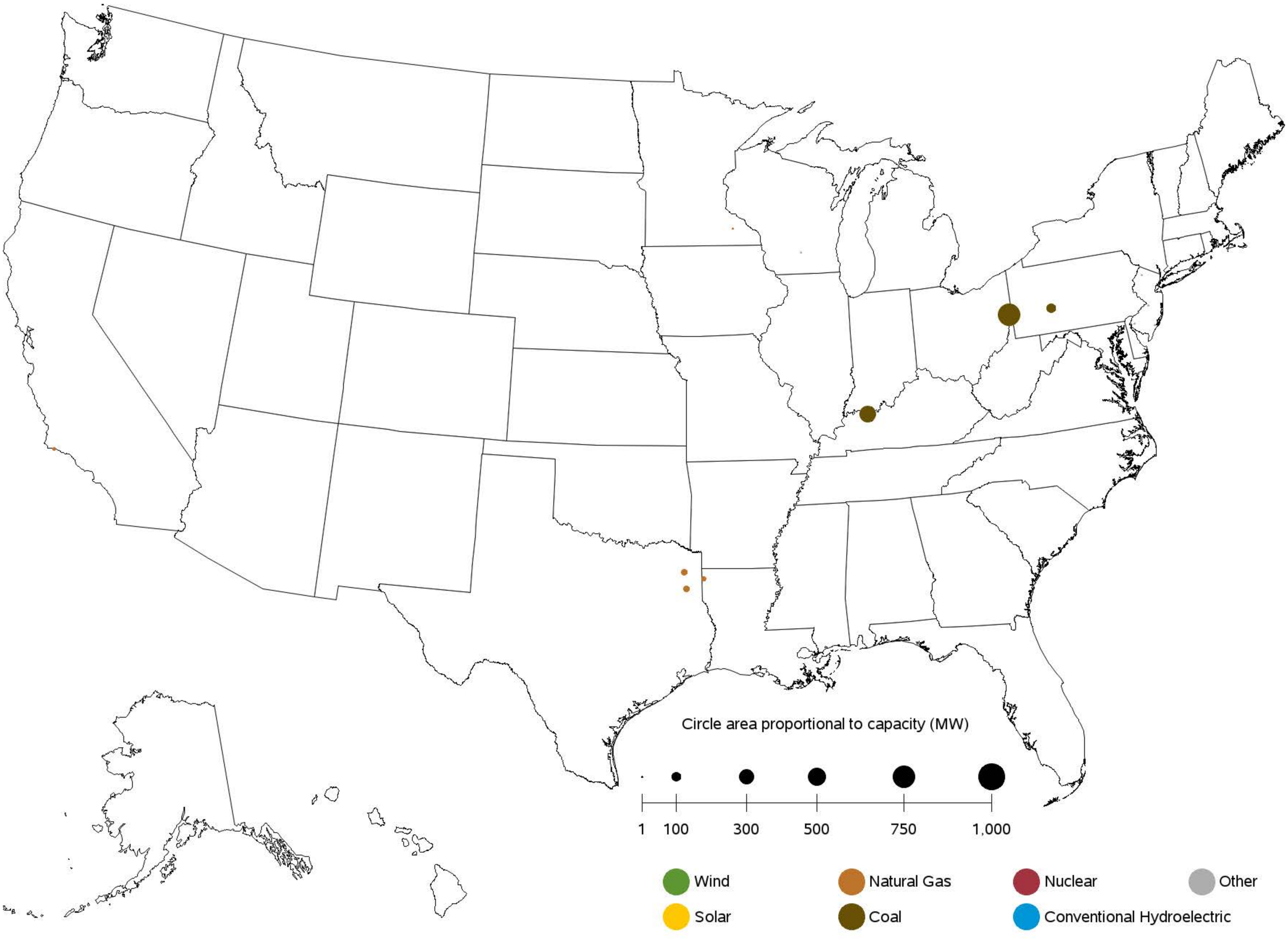
Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Usage factors are a comparison of gross generation with available capacity. See the technical note for an explanation of how usage factors are calculated.
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 May 2020



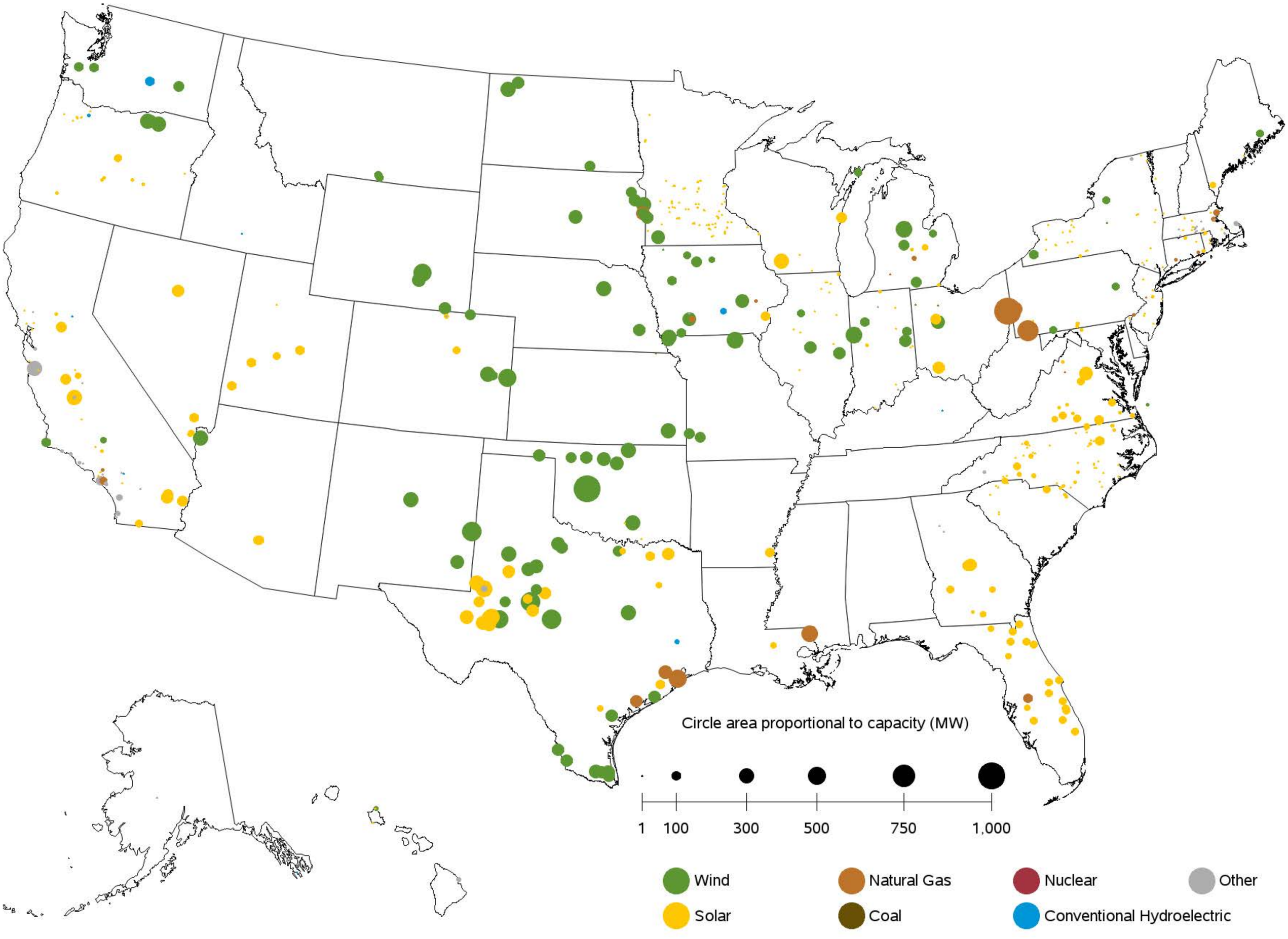
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in May 2020



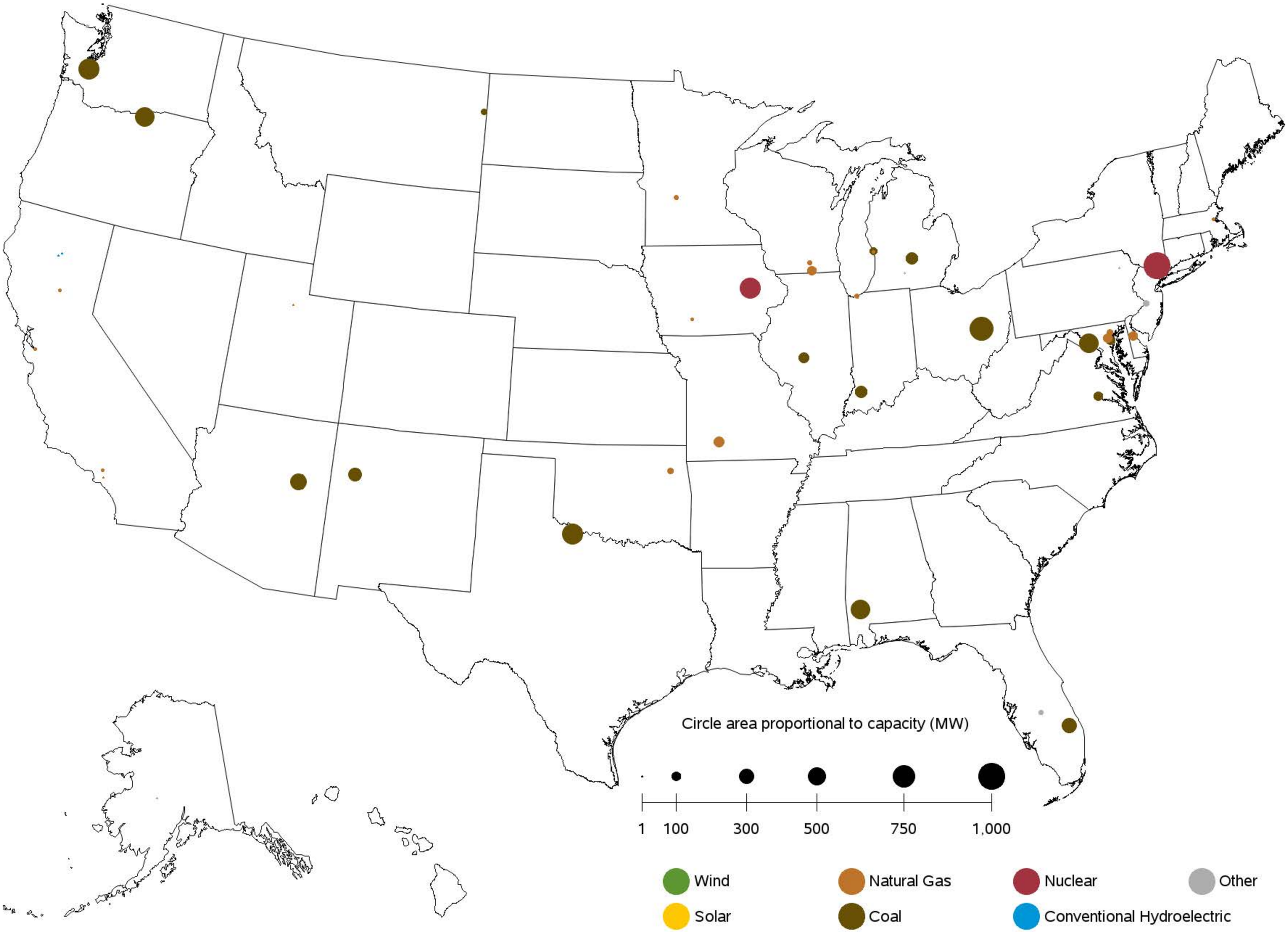
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from June 2020 to May 2021



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 June 2020 to May 2021



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.'

Chapter 7

Imports and Exports

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	59,909,320	3,312,798	5,775,597	6,058,005	65,684,917	9,370,803	56,314,114
2018	51,494,627	7,290,070	6,765,975	6,514,422	58,260,602	13,804,492	44,456,110
2019	52,309,254	13,532,067	6,743,207	6,475,965	59,052,461	20,008,032	39,044,429
Year 2018							
January	4,738,934	680,100	485,831	459,404	5,224,765	1,139,504	4,085,261
February	4,314,276	926,822	473,386	340,682	4,787,662	1,267,504	3,520,158
March	5,045,055	707,032	553,462	488,339	5,598,517	1,195,371	4,403,146
April	4,067,648	1,134,937	461,095	486,681	4,528,743	1,621,618	2,907,125
May	4,865,120	569,954	374,033	571,444	5,239,153	1,141,398	4,097,755
June	5,002,142	534,488	491,763	680,851	5,493,905	1,215,339	4,278,566
July	4,669,081	176,762	701,543	758,502	5,370,624	935,264	4,435,360
August	5,430,607	272,018	705,309	862,128	6,135,916	1,134,146	5,001,770
Sept	3,648,158	437,073	602,500	623,925	4,250,658	1,060,998	3,189,660
October	3,097,802	455,738	620,775	428,265	3,718,577	884,003	2,834,574
November	3,163,062	878,523	649,802	406,045	3,812,864	1,284,568	2,528,296
December	3,452,742	516,623	646,476	408,156	4,099,218	924,779	3,174,439
Year 2019							
January	4,098,844	942,436	705,708	521,104	4,804,552	1,463,540	3,341,012
February	3,777,272	898,202	774,241	519,458	4,551,513	1,417,660	3,133,853
March	4,200,904	1,961,134	748,858	587,848	4,949,762	2,548,982	2,400,780
April	3,880,049	1,558,941	474,744	409,476	4,354,793	1,968,417	2,386,376
May	4,333,483	1,164,351	389,959	517,695	4,723,442	1,682,046	3,041,396
June	4,731,849	905,149	424,419	620,623	5,156,268	1,525,772	3,630,496
July	5,057,622	1,250,152	584,912	707,229	5,642,534	1,957,381	3,685,153
August	5,266,917	1,036,625	597,828	748,206	5,864,745	1,784,831	4,079,914
Sept	4,741,429	1,095,245	551,397	680,604	5,292,826	1,775,849	3,516,977
October	3,179,364	1,041,990	481,831	422,942	3,661,195	1,464,932	2,196,263
November	4,299,127	875,191	540,154	368,755	4,839,281	1,243,946	3,595,335
December	4,742,394	802,651	469,156	372,025	5,211,550	1,174,676	4,036,874
Year 2020							
January	4,227,127	1,275,526	380,376	149,763	4,607,503	1,425,289	3,182,214
February	4,145,482	1,328,868	341,262	326,366	4,486,744	1,655,234	2,831,510
March	4,731,546	898,868	363,374	418,438	5,094,920	1,317,306	3,777,614

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

Chapter 8

Puerto Rico

Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - May 2020 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	5,045	6,820	1,747	0	13,611
2018	6,103	8,203	2,128	0	16,434
Year 2018					
January	389	559	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
May	566	802	165	0	1,533
June	507	592	208	0	1,308
July	578	681	145	0	1,404
August	577	689	209	0	1,475
Sept	527	722	186	0	1,436
October	698	847	191	0	1,736
November	457	593	172	0	1,222
December	494	642	162	0	1,299
Year 2019					
January	447	573	154	0	1,173
February	367	487	146	0	1,000
March	448	650	180	0	1,279
April	465	681	165	0	1,311
May	512	655	189	0	1,355
June	568	692	171	0	1,431
July	618	687	181	0	1,487
August	594	718	175	0	1,487
Sept	586	712	166	0	1,464
October	587	712	196	0	1,495
November	504	677	162	0	1,343
December	509	655	165	0	1,328
Year 2020					
January	475	601	137	0	1,213
February	373	540	120	0	1,033
March	488	691	184	0	1,364
April	510	476	138	0	1,124
May	651	500	160	0	1,311
Year to Date					
2018	2,264	3,437	854	0	6,555
2019	2,240	3,045	833	0	6,118
2020	2,497	2,809	740	0	6,046
Rolling 12 Months Ending in May					
2019	6,078	7,812	2,108	0	15,997
2020	6,462	7,663	1,955	0	16,081

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, 2010 - May 2020 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	1,123	1,549	344	0	3,016
2018	1,265	1,893	405	0	3,564
Year 2018					
January	86	159	32	0	277
February	76	171	32	0	279
March	110	149	22	0	281
April	84	161	54	0	300
May	104	165	23	0	292
June	108	133	40	0	281
July	122	166	29	0	317
August	114	149	39	0	302
Sept	109	162	34	0	306
October	137	181	36	0	353
November	102	142	34	0	278
December	112	154	31	0	298
Year 2019					
January	85	134	30	0	249
February	80	109	29	0	218
March	98	156	37	0	291
April	106	177	36	0	319
May	127	132	41	0	299
June	116	156	36	0	308
July	122	140	32	0	294
August	132	174	37	0	343
Sept	113	150	31	0	295
October	126	162	39	0	328
November	107	154	33	0	294
December	118	165	37	0	320
Year 2020					
January	122	180	36	0	338
February	99	161	32	0	292
March	87	143	34	0	264
April	85	79	22	0	186
May	151	118	37	0	307
Year to Date					
2018	460	805	163	0	1,429
2019	496	708	173	0	1,377
2020	545	681	160	0	1,386
Rolling 12 Months Ending in May					
2019	1,301	1,796	415	0	3,512
2020	1,378	1,783	407	0	3,568

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, 2010 - May 2020

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	1,337,756	127,065	618	0	1,465,439
2018	1,346,102	126,527	602	0	1,473,231
Year 2018					
January	1,343,369	126,955	605	0	1,470,929
February	1,342,510	126,695	606	0	1,469,811
March	1,343,914	126,640	607	0	1,471,161
April	1,344,684	126,489	606	0	1,471,779
May	1,344,960	126,396	604	0	1,471,960
June	1,344,798	126,278	604	0	1,471,680
July	1,345,450	126,221	601	0	1,472,272
August	1,346,380	126,283	598	0	1,473,261
Sept	1,347,298	126,375	599	0	1,474,272
October	1,348,855	126,492	597	0	1,475,944
November	1,349,924	126,702	595	0	1,477,221
December	1,351,082	126,800	596	0	1,478,478
Year 2019					
January	1,347,101	126,497	601	0	1,474,199
February	1,348,081	126,423	600	0	1,475,104
March	1,348,854	126,160	602	0	1,475,616
April	1,347,811	125,773	597	0	1,474,181
May	1,346,893	125,615	596	0	1,473,104
June	1,344,899	125,345	595	0	1,470,839
July	1,344,545	125,238	595	0	1,470,378
August	1,343,253	125,095	594	0	1,468,942
Sept	1,342,243	124,954	591	0	1,467,788
October	1,341,718	124,798	590	0	1,467,106
November	1,341,612	124,701	589	0	1,466,902
December	1,341,424	124,911	588	0	1,466,923
Year 2020					
January	1,340,652	124,815	588	0	1,466,055
February	1,340,005	124,751	586	0	1,465,342
March	1,339,508	124,615	584	0	1,464,707
April	1,339,991	124,604	585	0	1,465,180
May	1,340,943	124,631	585	0	1,466,159
Rolling 12 Months Ending in May					
2019	1,347,711	126,302	599	0	1,474,611
2020	1,341,733	124,872	589	0	1,467,193

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, 2010 - May 2020 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	22.26	22.72	19.70	--	22.16
2018	20.73	23.08	19.04	--	21.68
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	--	25.98
April	18.09	20.56	19.86	--	19.68
May	18.38	20.61	13.77	--	19.05
June	21.24	22.46	19.23	--	21.47
July	21.17	24.32	19.78	--	22.56
August	19.81	21.63	18.51	--	20.48
Sept	20.75	22.50	18.18	--	21.30
October	19.59	21.36	18.69	--	20.35
November	22.31	24.00	19.55	--	22.74
December	22.77	24.05	19.33	--	22.97
Year 2019					
January	19.07	23.38	19.78	--	21.26
February	21.85	22.35	20.14	--	21.84
March	21.84	24.03	20.33	--	22.74
April	22.89	25.94	21.91	--	24.35
May	24.71	20.19	21.60	--	22.09
June	20.37	22.61	21.26	--	21.56
July	19.72	20.39	17.90	--	19.80
August	22.22	24.21	21.16	--	23.06
Sept	19.36	21.02	18.93	--	20.12
October	21.50	22.80	19.96	--	21.92
November	21.15	22.74	20.65	--	21.89
December	23.13	25.19	22.62	--	24.09
Year 2020					
January	25.72	29.96	26.04	--	27.86
February	26.63	29.78	26.48	--	28.26
March	17.80	20.68	18.38	--	19.34
April	16.75	16.58	15.81	--	16.56
May	23.24	23.63	23.21	--	23.38
Year to Date					
2018	20.32	23.44	19.09	--	21.80
2019	22.16	23.24	20.79	--	22.51
2020	21.83	24.25	21.68	--	22.93
Rolling 12 Months Ending in May					
2019	21.41	22.99	19.71	--	21.96
2020	21.33	23.26	20.84	--	22.19

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-May 2020

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,346	0	3,049	0	0	4,947
2008	454	98	1,346	0	3,480	0	0	5,378
2009	454	98	1,346	0	3,600	0	0	5,498
2010	454	98	1,346	0	3,600	0	0	5,498
2011	454	98	1,346	0	3,600	5	0	5,503
2012	454	98	1,346	0	3,600	23	98	5,619
2013	454	98	1,346	0	3,600	26	98	5,622
2014	454	98	1,346	0	3,600	38	99	5,635
2015	454	98	1,346	9	3,604	70	99	5,680
2016	454	98	1,346	33	3,604	145	99	5,779
2017	454	98	1,346	35	3,605	145	99	5,782
2018	454	98	1,346	35	3,607	145	99	5,784
2019	454	98	1,346	35	3,607	149	99	5,788
Year 2020								
January	454	98	1,346	33	3,606	145	99	5,780
February	454	98	1,346	33	3,606	155	99	5,790
March	454	98	1,346	33	3,606	155	99	5,790
April	454	98	1,346	33	3,607	155	99	5,791
May	454	98	1,346	33	3,607	155	99	5,791

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.'

Appendices

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**33**	**37**	**0**	**3**	**0**	**0**	**6**
Connecticut	0	56	0	1	0	0	17
Maine	35	30	0	8	0	0	8
Massachusetts	0	79	0	10	0	0	12
New Hampshire	0	27	0	0	0	0	12
Rhode Island	0	198	0	14	0	0	0
Vermont	0	76	0	0	0	0	11
Middle Atlantic	**7**	**48**	**0**	**1**	**29**	**0**	**2**
New Jersey	0	99	0	3	0	0	0
New York	0	52	0	3	0	0	1
Pennsylvania	7	87	0	1	44	0	7
East North Central	**1**	**4**	**11**	**2**	**14**	**0**	**11**
Illinois	1	8	0	9	17	0	19
Indiana	0	2	0	3	18	0	27
Michigan	4	5	0	3	0	0	21
Ohio	1	9	19	1	27	0	25
Wisconsin	1	27	0	5	0	0	17
West North Central	**1**	**6**	**0**	**9**	**0**	**0**	**7**
Iowa	1	16	0	8	0	0	27
Kansas	0	4	0	36	0	0	0
Minnesota	7	22	0	13	0	0	25
Missouri	0	8	0	12	0	0	13
Nebraska	4	72	0	59	0	0	22
North Dakota	0	4	0	43	0	0	14
South Dakota	0	76	0	49	0	0	10
South Atlantic	**1**	**7**	**7**	**1**	**0**	**0**	**4**
Delaware	0	115	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	28
Georgia	1	34	64	2	0	0	7
Maryland	0	27	0	1	0	0	1
North Carolina	0	14	0	2	0	0	5
South Carolina	0	19	0	2	0	0	9
Virginia	0	22	0	2	0	0	9
West Virginia	2	0	0	3	0	0	10
East South Central	**0**	**2**	**0**	**1**	**68**	**0**	**3**
Alabama	0	136	0	2	203	0	4
Kentucky	0	1	0	3	0	0	6
Mississippi	0	1	0	1	0	0	0
Tennessee	0	1	0	4	0	0	4
West South Central	**0**	**3**	**1**	**1**	**7**	**0**	**5**
Arkansas	0	0	0	8	0	0	7
Louisiana	0	15	0	2	11	0	12
Oklahoma	0	1	0	2	0	0	9
Texas	0	6	51	1	5	0	12
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**5**
Arizona	0	3	0	1	0	0	5
Colorado	0	56	0	2	0	0	19
Idaho	193	0	0	31	0	0	8
Montana	11	12	0	55	0	0	8
Nevada	0	0	0	1	0	0	2
New Mexico	0	21	0	5	0	0	70
Utah	0	3	0	4	0	0	27
Wyoming	3	2	0	19	0	0	26
Pacific Contiguous	**0**	**33**	**0**	**2**	**2**	**0**	**2**
California	0	11	0	1	2	0	7
Oregon	0	0	0	14	0	0	4
Washington	0	172	0	13	0	0	1
Pacific Noncontiguous	**12**	**1**	**0**	**32**	**0**	**0**	**20**
Alaska	30	3	0	32	0	0	20
Hawaii	0	1	0	0	0	0	79
U.S. Total	**0**	**2**	**5**	**0**	**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, May 2020 (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**	**5**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	14	9	0	0	1
Maine	0	0	0	61	5	0	0	4
Massachusetts	0	0	0	6	5	0	2	5
New Hampshire	0	0	0	0	14	0	0	2
Rhode Island	0	0	0	21	9	0	0	13
Vermont	0	0	0	17	11	0	0	8
Middle Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
New Jersey	0	0	0	6	4	0	0	1
New York	0	0	0	8	4	0	1	1
Pennsylvania	0	0	0	20	4	0	0	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**5**	**1**
Illinois	0	0	0	21	2	0	17	1
Indiana	0	0	0	11	3	0	0	1
Michigan	0	0	0	16	4	0	17	1
Ohio	0	0	0	7	3	0	0	1
Wisconsin	0	0	0	28	6	0	29	2
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**5**	**1**
Iowa	0	0	0	51	2	0	0	2
Kansas	0	0	0	16	2	0	0	1
Minnesota	0	0	0	5	3	0	3	3
Missouri	0	0	0	21	4	0	0	1
Nebraska	0	0	0	37	3	0	0	3
North Dakota	0	0	0	0	3	0	39	2
South Dakota	0	0	0	153	4	0	0	7
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	29	20	0	0	1
District of Columbia	0	0	0	64	17	0	0	17
Florida	0	0	0	1	2	0	1	0
Georgia	0	0	0	2	3	0	0	1
Maryland	0	0	0	8	6	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	4	3	0	0	1
Virginia	0	0	0	5	4	0	0	1
West Virginia	0	0	0	0	6	0	0	1
East South Central	**0**	**0**	**0**	**4**	**4**	**0**	**0**	**1**
Alabama	0	0	0	8	5	0	0	1
Kentucky	0	0	0	25	20	0	0	1
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	10	8	0	0	1
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	4	9	0	0	2
Louisiana	0	0	0	164	8	0	0	1
Oklahoma	0	0	0	29	2	0	0	2
Texas	0	0	0	1	1	0	5	1
Mountain	**0**	**10**	**0**	**1**	**2**	**0**	**5**	**1**
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	2	0	0	1
Idaho	0	59	0	7	6	0	0	7
Montana	0	0	0	36	7	0	0	6
Nevada	0	11	0	2	5	0	0	1
New Mexico	0	0	0	5	2	0	0	2
Utah	0	27	0	4	5	0	40	1
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**5**	**0**	**1**	**1**	**0**	**2**	**1**
California	0	5	0	1	2	0	2	1
Oregon	0	42	0	7	3	0	47	3
Washington	0	0	0	42	4	0	0	1
Pacific Noncontiguous	**0**	**42**	**0**	**7**	**9**	**0**	**0**	**6**
Alaska	0	0	0	0	24	0	0	14
Hawaii	0	42	0	7	9	0	0	2
U.S. Total	**0**	**6**	**0**	**1**	**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 May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**33**	**37**	**0**	**3**	**0**	**0**	**6**
Connecticut	0	56	0	1	0	0	17
Maine	35	30	0	8	0	0	8
Massachusetts	0	79	0	10	0	0	12
New Hampshire	0	27	0	0	0	0	12
Rhode Island	0	198	0	14	0	0	0
Vermont	0	76	0	0	0	0	11
Middle Atlantic	**7**	**48**	**0**	**1**	**29**	**0**	**2**
New Jersey	0	99	0	3	0	0	0
New York	0	52	0	3	0	0	1
Pennsylvania	7	87	0	1	44	0	7
East North Central	**1**	**4**	**11**	**2**	**14**	**0**	**11**
Illinois	1	8	0	9	17	0	19
Indiana	0	2	0	3	18	0	27
Michigan	4	5	0	3	0	0	21
Ohio	1	9	19	1	27	0	25
Wisconsin	1	27	0	5	0	0	17
West North Central	**1**	**6**	**0**	**9**	**0**	**0**	**7**
Iowa	1	16	0	8	0	0	27
Kansas	0	4	0	36	0	0	0
Minnesota	7	22	0	13	0	0	25
Missouri	0	8	0	12	0	0	13
Nebraska	4	72	0	59	0	0	22
North Dakota	0	4	0	43	0	0	14
South Dakota	0	76	0	49	0	0	10
South Atlantic	**1**	**7**	**7**	**1**	**0**	**0**	**4**
Delaware	0	115	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	28
Georgia	1	34	64	2	0	0	7
Maryland	0	27	0	1	0	0	1
North Carolina	0	14	0	2	0	0	5
South Carolina	0	19	0	2	0	0	9
Virginia	0	22	0	2	0	0	9
West Virginia	2	0	0	3	0	0	10
East South Central	**0**	**2**	**0**	**1**	**68**	**0**	**3**
Alabama	0	136	0	2	203	0	4
Kentucky	0	1	0	3	0	0	6
Mississippi	0	1	0	1	0	0	0
Tennessee	0	1	0	4	0	0	4
West South Central	**0**	**3**	**1**	**1**	**7**	**0**	**5**
Arkansas	0	0	0	8	0	0	7
Louisiana	0	15	0	2	11	0	12
Oklahoma	0	1	0	2	0	0	9
Texas	0	6	51	1	5	0	12
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**5**
Arizona	0	3	0	1	0	0	5
Colorado	0	56	0	2	0	0	19
Idaho	193	0	0	31	0	0	8
Montana	11	12	0	55	0	0	8
Nevada	0	0	0	1	0	0	2
New Mexico	0	21	0	5	0	0	70
Utah	0	3	0	4	0	0	27
Wyoming	3	2	0	19	0	0	26
Pacific Contiguous	**0**	**33**	**0**	**2**	**2**	**0**	**2**
California	0	11	0	1	2	0	7
Oregon	0	0	0	14	0	0	4
Washington	0	172	0	13	0	0	1
Pacific Noncontiguous	**12**	**1**	**0**	**32**	**0**	**0**	**20**
Alaska	30	3	0	32	0	0	20
Hawaii	0	1	0	0	0	0	79
U.S. Total	**0**	**2**	**5**	**0**	**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 May 2020 (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**	**5**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	14	9	0	0	1
Maine	0	0	0	61	5	0	0	4
Massachusetts	0	0	0	6	5	0	2	5
New Hampshire	0	0	0	0	14	0	0	2
Rhode Island	0	0	0	21	9	0	0	13
Vermont	0	0	0	17	11	0	0	8
Middle Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
New Jersey	0	0	0	6	4	0	0	1
New York	0	0	0	8	4	0	1	1
Pennsylvania	0	0	0	20	4	0	0	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**5**	**1**
Illinois	0	0	0	21	2	0	17	1
Indiana	0	0	0	11	3	0	0	1
Michigan	0	0	0	16	4	0	17	1
Ohio	0	0	0	7	3	0	0	1
Wisconsin	0	0	0	28	6	0	29	2
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**5**	**1**
Iowa	0	0	0	51	2	0	0	2
Kansas	0	0	0	16	2	0	0	1
Minnesota	0	0	0	5	3	0	3	3
Missouri	0	0	0	21	4	0	0	1
Nebraska	0	0	0	37	3	0	0	3
North Dakota	0	0	0	0	3	0	39	2
South Dakota	0	0	0	153	4	0	0	7
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	29	20	0	0	1
District of Columbia	0	0	0	64	17	0	0	17
Florida	0	0	0	1	2	0	1	0
Georgia	0	0	0	2	3	0	0	1
Maryland	0	0	0	8	6	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	4	3	0	0	1
Virginia	0	0	0	5	4	0	0	1
West Virginia	0	0	0	0	6	0	0	1
East South Central	**0**	**0**	**0**	**4**	**4**	**0**	**0**	**1**
Alabama	0	0	0	8	5	0	0	1
Kentucky	0	0	0	25	20	0	0	1
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	10	8	0	0	1
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	4	9	0	0	2
Louisiana	0	0	0	164	8	0	0	1
Oklahoma	0	0	0	29	2	0	0	2
Texas	0	0	0	1	1	0	5	1
Mountain	**0**	**10**	**0**	**1**	**2**	**0**	**5**	**1**
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	2	0	0	1
Idaho	0	59	0	7	6	0	0	7
Montana	0	0	0	36	7	0	0	6
Nevada	0	11	0	2	5	0	0	1
New Mexico	0	0	0	5	2	0	0	2
Utah	0	27	0	4	5	0	40	1
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**5**	**0**	**1**	**1**	**0**	**2**	**1**
California	0	5	0	1	2	0	2	1
Oregon	0	42	0	7	3	0	47	3
Washington	0	0	0	42	4	0	0	1
Pacific Noncontiguous	**0**	**42**	**0**	**7**	**9**	**0**	**0**	**6**
Alaska	0	0	0	0	24	0	0	14
Hawaii	0	42	0	7	9	0	0	2
U.S. Total	**0**	**6**	**0**	**1**	**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, May 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	1	1	0	.	1
Massachusetts	0	0	1	.	0
New Hampshire	1	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	2	8	48	.	3
Middle Atlantic	**0**	**0**	**2**	**.**	**0**
New Jersey	0	1	2	.	0
New York	0	0	1	.	0
Pennsylvania	1	3	1	.	1
East North Central	**6**	**3**	**8**	**.**	**3**
Illinois	7	5	0	.	5
Indiana	15	3	0	.	7
Michigan	10	21	97	.	9
Ohio	14	4	9	.	6
Wisconsin	25	19	13	.	15
West North Central	**1**	**1**	**2**	**.**	**1**
Iowa	2	1	9	.	1
Kansas	5	3	0	.	3
Minnesota	2	3	1	.	2
Missouri	1	1	2	.	1
Nebraska	6	17	9	.	6
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**2**	**1**	**2**	**.**	**1**
Delaware	9	4	21	.	6
District of Columbia	0	0	0	.	0
Florida	5	6	2	.	4
Georgia	222	44	0	.	131
Maryland	2	2	3	.	1
North Carolina	8	3	0	.	6
South Carolina	7	6	0	.	6
Virginia	11	4	5	.	7
West Virginia	0	0	0	.	0
East South Central	**9**	**5**	**0**	**.**	**6**
Alabama	0	0	0	.	0
Kentucky	10	6	0	.	8
Mississippi	22	13	0	.	13
Tennessee	0	0	0	.	0
West South Central	**3**	**6**	**7**	**.**	**3**
Arkansas	17	17	0	.	12
Louisiana	4	11	0	.	4
Oklahoma	24	19	0	.	19
Texas	5	8	66	.	4
Mountain	**0**	**0**	**1**	**.**	**0**
Arizona	0	0	0	.	0
Colorado	2	1	27	.	2
Idaho	2	2	0	.	2
Montana	10	3	0	.	7
Nevada	0	0	0	.	0
New Mexico	3	1	49	.	2
Utah	1	1	0	.	1
Wyoming	14	12	0	.	12
Pacific Contiguous	**0**	**0**	**0**	**.**	**0**
California	0	0	0	.	0
Oregon	1	1	6	.	1
Washington	2	3	25	.	2
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	2	3	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, May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**56**	**0**	**49**	**0**	**0**	**12**
Connecticut	0	29	0	0	0	0	19
Maine	0	0	0	0	0	0	198
Massachusetts	0	136	0	74	0	0	25
New Hampshire	0	16	0	0	0	0	21
Rhode Island	0	0	0	0	0	0	0
Vermont	0	76	0	0	0	0	18
Middle Atlantic	**0**	**98**	**0**	**8**	**0**	**0**	**0**
New Jersey	0	0	0	131	0	0	0
New York	0	99	0	8	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**5**	**0**	**3**	**0**	**0**	**12**
Illinois	0	46	0	0	0	0	27
Indiana	0	3	0	5	0	0	27
Michigan	4	5	0	9	0	0	22
Ohio	10	12	0	3	0	0	27
Wisconsin	0	27	0	5	0	0	18
West North Central	**1**	**5**	**0**	**10**	**0**	**0**	**7**
Iowa	0	17	0	9	0	0	27
Kansas	0	4	0	37	0	0	0
Minnesota	7	18	0	14	0	0	30
Missouri	0	8	0	20	0	0	13
Nebraska	4	72	0	59	0	0	22
North Dakota	0	4	0	44	0	0	14
South Dakota	0	76	0	49	0	0	10
South Atlantic	**0**	**8**	**0**	**1**	**0**	**0**	**4**
Delaware	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	28
Georgia	0	24	0	2	0	0	7
Maryland	0	203	0	0	0	0	0
North Carolina	0	14	0	2	0	0	5
South Carolina	0	22	0	1	0	0	8
Virginia	0	77	0	2	0	0	9
West Virginia	0	0	0	0	0	0	16
East South Central	**0**	**1**	**0**	**1**	**0**	**0**	**3**
Alabama	0	0	0	5	0	0	4
Kentucky	0	1	0	3	0	0	6
Mississippi	0	1	0	1	0	0	0
Tennessee	0	1	0	4	0	0	4
West South Central	**0**	**3**	**0**	**2**	**0**	**0**	**6**
Arkansas	0	0	0	9	0	0	7
Louisiana	0	15	0	3	0	0	0
Oklahoma	0	1	0	4	0	0	9
Texas	0	7	0	4	0	0	12
Mountain	**1**	**5**	**0**	**1**	**0**	**0**	**4**
Arizona	0	3	0	1	0	0	5
Colorado	0	57	0	2	0	0	20
Idaho	0	0	0	53	0	0	8
Montana	0	357	0	58	0	0	8
Nevada	0	0	0	1	0	0	0
New Mexico	0	21	0	8	0	0	70
Utah	0	3	0	4	0	0	27
Wyoming	3	2	0	58	0	0	27
Pacific Contiguous	**0**	**17**	**0**	**5**	**0**	**0**	**2**
California	0	16	0	3	0	0	6
Oregon	0	0	0	22	0	0	3
Washington	0	650	0	16	0	0	1
Pacific Noncontiguous	**41**	**1**	**0**	**33**	**0**	**0**	**21**
Alaska	41	3	0	33	0	0	21
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**0**	**0**	**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.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, May 2020 (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**	**18**	**10**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	9
Maine	0	0	0	0	0	0	0	198
Massachusetts	0	0	0	24	22	0	0	17
New Hampshire	0	0	0	0	0	0	0	17
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	29	12	0	0	11
Middle Atlantic	**0**	**0**	**0**	**23**	**23**	**0**	**0**	**2**
New Jersey	0	0	0	23	23	0	0	37
New York	0	0	0	0	0	0	0	1
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**12**	**5**	**0**	**29**	**1**
Illinois	0	0	0	51	19	0	0	1
Indiana	0	0	0	17	10	0	0	2
Michigan	0	0	0	14	6	0	0	2
Ohio	0	0	0	78	71	0	0	3
Wisconsin	0	0	0	0	11	0	31	3
West North Central	**0**	**0**	**0**	**44**	**2**	**0**	**10**	**1**
Iowa	0	0	0	74	2	0	0	2
Kansas	0	0	0	153	8	0	0	2
Minnesota	0	0	0	120	7	0	0	3
Missouri	0	0	0	0	37	0	0	1
Nebraska	0	0	0	95	22	0	0	3
North Dakota	0	0	0	0	5	0	39	2
South Dakota	0	0	0	0	13	0	0	10
South Atlantic	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**0**
Delaware	0	0	0	82	82	0	0	40
Florida	0	0	0	0	0	0	0	0
Georgia	0	0	0	9	9	0	0	1
Maryland	0	0	0	72	72	0	0	1
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	86	23	0	0	1
Virginia	0	0	0	7	12	0	0	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**22**	**16**	**0**	**0**	**1**
Alabama	0	0	0	37	37	0	0	1
Kentucky	0	0	0	26	18	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	147	147	0	0	1
West South Central	**0**	**0**	**0**	**25**	**10**	**0**	**0**	**1**
Arkansas	0	0	0	166	166	0	0	3
Louisiana	0	0	0	164	164	0	0	2
Oklahoma	0	0	0	29	10	0	0	3
Texas	0	0	0	57	28	0	0	2
Mountain	**0**	**38**	**0**	**5**	**3**	**0**	**26**	**1**
Arizona	0	0	0	7	7	0	0	0
Colorado	0	0	0	81	3	0	0	1
Idaho	0	0	0	0	28	0	0	8
Montana	0	0	0	0	25	0	0	8
Nevada	0	0	0	6	6	0	0	1
New Mexico	0	0	0	12	12	0	0	3
Utah	0	38	0	0	38	0	40	2
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**1**
California	0	0	0	9	4	0	0	3
Oregon	0	0	0	83	4	0	0	3
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**23**	**19**	**0**	**0**	**8**
Alaska	0	0	0	0	38	0	0	15
Hawaii	0	0	0	23	18	0	0	1
U.S. Total	**0**	**8**	**0**	**1**	**1**	**0**	**6**	**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 May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**56**	**0**	**49**	**0**	**0**	**12**
Connecticut	0	29	0	0	0	0	19
Maine	0	0	0	0	0	0	198
Massachusetts	0	136	0	74	0	0	25
New Hampshire	0	16	0	0	0	0	21
Rhode Island	0	0	0	0	0	0	0
Vermont	0	76	0	0	0	0	18
Middle Atlantic	**0**	**98**	**0**	**8**	**0**	**0**	**0**
New Jersey	0	0	0	131	0	0	0
New York	0	99	0	8	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**5**	**0**	**3**	**0**	**0**	**12**
Illinois	0	46	0	0	0	0	27
Indiana	0	3	0	5	0	0	27
Michigan	4	5	0	9	0	0	22
Ohio	10	12	0	3	0	0	27
Wisconsin	0	27	0	5	0	0	18
West North Central	**1**	**5**	**0**	**10**	**0**	**0**	**7**
Iowa	0	17	0	9	0	0	27
Kansas	0	4	0	37	0	0	0
Minnesota	7	18	0	14	0	0	30
Missouri	0	8	0	20	0	0	13
Nebraska	4	72	0	59	0	0	22
North Dakota	0	4	0	44	0	0	14
South Dakota	0	76	0	49	0	0	10
South Atlantic	**0**	**8**	**0**	**1**	**0**	**0**	**4**
Delaware	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	28
Georgia	0	24	0	2	0	0	7
Maryland	0	203	0	0	0	0	0
North Carolina	0	14	0	2	0	0	5
South Carolina	0	22	0	1	0	0	8
Virginia	0	77	0	2	0	0	9
West Virginia	0	0	0	0	0	0	16
East South Central	**0**	**1**	**0**	**1**	**0**	**0**	**3**
Alabama	0	0	0	5	0	0	4
Kentucky	0	1	0	3	0	0	6
Mississippi	0	1	0	1	0	0	0
Tennessee	0	1	0	4	0	0	4
West South Central	**0**	**3**	**0**	**2**	**0**	**0**	**6**
Arkansas	0	0	0	9	0	0	7
Louisiana	0	15	0	3	0	0	0
Oklahoma	0	1	0	4	0	0	9
Texas	0	7	0	4	0	0	12
Mountain	**1**	**5**	**0**	**1**	**0**	**0**	**4**
Arizona	0	3	0	1	0	0	5
Colorado	0	57	0	2	0	0	20
Idaho	0	0	0	53	0	0	8
Montana	0	357	0	58	0	0	8
Nevada	0	0	0	1	0	0	0
New Mexico	0	21	0	8	0	0	70
Utah	0	3	0	4	0	0	27
Wyoming	3	2	0	58	0	0	27
Pacific Contiguous	**0**	**17**	**0**	**5**	**0**	**0**	**2**
California	0	16	0	3	0	0	6
Oregon	0	0	0	22	0	0	3
Washington	0	650	0	16	0	0	1
Pacific Noncontiguous	**41**	**1**	**0**	**33**	**0**	**0**	**21**
Alaska	41	3	0	33	0	0	21
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**0**	**0**	**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.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, Year-to-Date through May 2020 (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**	**18**	**10**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	9
Maine	0	0	0	0	0	0	0	198
Massachusetts	0	0	0	24	22	0	0	17
New Hampshire	0	0	0	0	0	0	0	17
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	29	12	0	0	11
Middle Atlantic	**0**	**0**	**0**	**23**	**23**	**0**	**0**	**2**
New Jersey	0	0	0	23	23	0	0	37
New York	0	0	0	0	0	0	0	1
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**12**	**5**	**0**	**29**	**1**
Illinois	0	0	0	51	19	0	0	1
Indiana	0	0	0	17	10	0	0	2
Michigan	0	0	0	14	6	0	0	2
Ohio	0	0	0	78	71	0	0	3
Wisconsin	0	0	0	0	11	0	31	3
West North Central	**0**	**0**	**0**	**44**	**2**	**0**	**10**	**1**
Iowa	0	0	0	74	2	0	0	2
Kansas	0	0	0	153	8	0	0	2
Minnesota	0	0	0	120	7	0	0	3
Missouri	0	0	0	0	37	0	0	1
Nebraska	0	0	0	95	22	0	0	3
North Dakota	0	0	0	0	5	0	39	2
South Dakota	0	0	0	0	13	0	0	10
South Atlantic	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**0**
Delaware	0	0	0	82	82	0	0	40
Florida	0	0	0	0	0	0	0	0
Georgia	0	0	0	9	9	0	0	1
Maryland	0	0	0	72	72	0	0	1
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	86	23	0	0	1
Virginia	0	0	0	7	12	0	0	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**22**	**16**	**0**	**0**	**1**
Alabama	0	0	0	37	37	0	0	1
Kentucky	0	0	0	26	18	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	147	147	0	0	1
West South Central	**0**	**0**	**0**	**25**	**10**	**0**	**0**	**1**
Arkansas	0	0	0	166	166	0	0	3
Louisiana	0	0	0	164	164	0	0	2
Oklahoma	0	0	0	29	10	0	0	3
Texas	0	0	0	57	28	0	0	2
Mountain	**0**	**38**	**0**	**5**	**3**	**0**	**26**	**1**
Arizona	0	0	0	7	7	0	0	0
Colorado	0	0	0	81	3	0	0	1
Idaho	0	0	0	0	28	0	0	8
Montana	0	0	0	0	25	0	0	8
Nevada	0	0	0	6	6	0	0	1
New Mexico	0	0	0	12	12	0	0	3
Utah	0	38	0	0	38	0	40	2
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**1**
California	0	0	0	9	4	0	0	3
Oregon	0	0	0	83	4	0	0	3
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**23**	**19**	**0**	**0**	**8**
Alaska	0	0	0	0	38	0	0	15
Hawaii	0	0	0	23	18	0	0	1
U.S. Total	**0**	**8**	**0**	**1**	**1**	**0**	**6**	**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, May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**50**	**0**	**3**	**0**	**0**	**6**
Connecticut	0	62	0	0	0	0	18
Maine	0	16	0	0	0	0	8
Massachusetts	0	108	0	11	0	0	14
New Hampshire	0	2,743	0	0	0	0	14
Rhode Island	0	198	0	14	0	0	0
Vermont	0	0	0	0	0	0	14
Middle Atlantic	**7**	**61**	**0**	**1**	**0**	**0**	**6**
New Jersey	0	105	0	3	0	0	0
New York	0	77	0	3	0	0	6
Pennsylvania	7	97	0	1	0	0	7
East North Central	**0**	**8**	**19**	**2**	**38**	**0**	**36**
Illinois	0	6	0	10	0	0	26
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	2	0	0	79
Ohio	0	10	19	1	38	0	65
Wisconsin	0	0	0	2	0	0	70
West North Central	**0**	**185**	**0**	**15**	**0**	**0**	**47**
Iowa	0	78	0	4,693	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	352	0	42	0	0	53
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**11**	**27**	**0**	**2**	**0**	**0**	**4**
Delaware	0	115	0	0	0	0	0
Florida	0	5	0	7	0	0	0
Georgia	0	211	0	5	0	0	166
Maryland	0	26	0	1	0	0	1
North Carolina	0	137	0	7	0	0	38
South Carolina	0	0	0	47	0	0	49
Virginia	0	28	0	2	0	0	36
West Virginia	16	0	0	4	0	0	18
East South Central	**0**	**136**	**0**	**0**	**0**	**0**	**128**
Alabama	0	170	0	0	0	0	0
Kentucky	0	0	0	0	0	0	128
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**12**	**0**	**1**	**0**	**0**	**12**
Arkansas	0	0	0	0	0	0	64
Louisiana	0	0	0	5	0	0	12
Oklahoma	0	0	0	0	0	0	0
Texas	0	16	0	1	0	0	0
Mountain	**8**	**5**	**0**	**3**	**0**	**0**	**22**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	15	0	0	52
Idaho	0	0	0	42	0	0	29
Montana	12	6	0	83	0	0	71
Nevada	0	0	0	0	0	0	73
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**48**	**0**	**2**	**0**	**0**	**27**
California	0	0	0	2	0	0	36
Oregon	0	0	0	7	0	0	53
Washington	0	107	0	63	0	0	40
Pacific Noncontiguous	**8**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	67	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**6**	**14**	**1**	**8**	**0**	**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.

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

Independent Power Producers by Census Division and State, May 2020 (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**	**6**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	14	9	0	0	0
Maine	0	0	0	61	6	0	0	4
Massachusetts	0	0	0	6	5	0	2	5
New Hampshire	0	0	0	0	15	0	0	2
Rhode Island	0	0	0	21	9	0	0	13
Vermont	0	0	0	20	16	0	0	11
Middle Atlantic	**0**	**0**	**0**	**5**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	8	4	0	0	1
Pennsylvania	0	0	0	21	4	0	0	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**23**	**0**
Illinois	0	0	0	22	2	0	0	1
Indiana	0	0	0	15	4	0	0	1
Michigan	0	0	0	30	5	0	32	1
Ohio	0	0	0	7	3	0	0	1
Wisconsin	0	0	0	29	6	0	0	1
West North Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**2**
Iowa	0	0	0	67	4	0	0	3
Kansas	0	0	0	16	2	0	0	2
Minnesota	0	0	0	5	3	0	0	4
Missouri	0	0	0	22	4	0	0	3
Nebraska	0	0	0	37	3	0	0	3
North Dakota	0	0	0	0	3	0	0	3
South Dakota	0	0	0	153	4	0	0	4
South Atlantic	**0**	**0**	**0**	**2**	**1**	**0**	**1**	**1**
Delaware	0	0	0	30	23	0	0	1
District of Columbia	0	0	0	64	64	0	0	64
Florida	0	0	0	5	3	0	1	4
Georgia	0	0	0	2	2	0	0	4
Maryland	0	0	0	8	6	0	0	0
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	4	0	0	6
Virginia	0	0	0	7	6	0	0	2
West Virginia	0	0	0	0	6	0	0	8
East South Central	**0**	**0**	**0**	**4**	**4**	**0**	**0**	**0**
Alabama	0	0	0	8	8	0	0	0
Kentucky	0	0	0	160	37	0	0	3
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	10	10	0	0	10
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	5	6	0	0	1
Louisiana	0	0	0	0	25	0	0	4
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	1	1	0	0	1
Mountain	**0**	**12**	**0**	**1**	**2**	**0**	**0**	**1**
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	3	0	0	3
Idaho	0	59	0	7	6	0	0	11
Montana	0	0	0	36	7	0	0	7
Nevada	0	12	0	2	5	0	0	4
New Mexico	0	0	0	6	3	0	0	2
Utah	0	37	0	4	5	0	0	4
Wyoming	0	0	0	0	8	0	0	6
Pacific Contiguous	**0**	**5**	**0**	**1**	**1**	**0**	**7**	**1**
California	0	5	0	1	2	0	0	1
Oregon	0	42	0	7	4	0	48	4
Washington	0	0	0	42	6	0	0	9
Pacific Noncontiguous	**0**	**42**	**0**	**8**	**11**	**0**	**0**	**4**
Alaska	0	0	0	0	51	0	0	52
Hawaii	0	42	0	8	11	0	0	4
U.S. Total	**0**	**6**	**0**	**1**	**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 May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**50**	**0**	**3**	**0**	**0**	**6**
Connecticut	0	62	0	0	0	0	18
Maine	0	16	0	0	0	0	8
Massachusetts	0	108	0	11	0	0	14
New Hampshire	0	2,743	0	0	0	0	14
Rhode Island	0	198	0	14	0	0	0
Vermont	0	0	0	0	0	0	14
Middle Atlantic	**7**	**61**	**0**	**1**	**0**	**0**	**6**
New Jersey	0	105	0	3	0	0	0
New York	0	77	0	3	0	0	6
Pennsylvania	7	97	0	1	0	0	7
East North Central	**0**	**8**	**19**	**2**	**38**	**0**	**36**
Illinois	0	6	0	10	0	0	26
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	2	0	0	79
Ohio	0	10	19	1	38	0	65
Wisconsin	0	0	0	2	0	0	70
West North Central	**0**	**185**	**0**	**15**	**0**	**0**	**47**
Iowa	0	78	0	4,693	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	352	0	42	0	0	53
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**11**	**27**	**0**	**2**	**0**	**0**	**4**
Delaware	0	115	0	0	0	0	0
Florida	0	5	0	7	0	0	0
Georgia	0	211	0	5	0	0	166
Maryland	0	26	0	1	0	0	1
North Carolina	0	137	0	7	0	0	38
South Carolina	0	0	0	47	0	0	49
Virginia	0	28	0	2	0	0	36
West Virginia	16	0	0	4	0	0	18
East South Central	**0**	**136**	**0**	**0**	**0**	**0**	**128**
Alabama	0	170	0	0	0	0	0
Kentucky	0	0	0	0	0	0	128
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**12**	**0**	**1**	**0**	**0**	**12**
Arkansas	0	0	0	0	0	0	64
Louisiana	0	0	0	5	0	0	12
Oklahoma	0	0	0	0	0	0	0
Texas	0	16	0	1	0	0	0
Mountain	**8**	**5**	**0**	**3**	**0**	**0**	**22**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	15	0	0	52
Idaho	0	0	0	42	0	0	29
Montana	12	6	0	83	0	0	71
Nevada	0	0	0	0	0	0	73
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**48**	**0**	**2**	**0**	**0**	**27**
California	0	0	0	2	0	0	36
Oregon	0	0	0	7	0	0	53
Washington	0	107	0	63	0	0	40
Pacific Noncontiguous	**8**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	67	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**6**	**14**	**1**	**8**	**0**	**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.

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 May 2020 (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**	**6**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	14	9	0	0	0
Maine	0	0	0	61	6	0	0	4
Massachusetts	0	0	0	6	5	0	2	5
New Hampshire	0	0	0	0	15	0	0	2
Rhode Island	0	0	0	21	9	0	0	13
Vermont	0	0	0	20	16	0	0	11
Middle Atlantic	**0**	**0**	**0**	**5**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	8	4	0	0	1
Pennsylvania	0	0	0	21	4	0	0	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**23**	**0**
Illinois	0	0	0	22	2	0	0	1
Indiana	0	0	0	15	4	0	0	1
Michigan	0	0	0	30	5	0	32	1
Ohio	0	0	0	7	3	0	0	1
Wisconsin	0	0	0	29	6	0	0	1
West North Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**2**
Iowa	0	0	0	67	4	0	0	3
Kansas	0	0	0	16	2	0	0	2
Minnesota	0	0	0	5	3	0	0	4
Missouri	0	0	0	22	4	0	0	3
Nebraska	0	0	0	37	3	0	0	3
North Dakota	0	0	0	0	3	0	0	3
South Dakota	0	0	0	153	4	0	0	4
South Atlantic	**0**	**0**	**0**	**2**	**1**	**0**	**1**	**1**
Delaware	0	0	0	30	23	0	0	1
District of Columbia	0	0	0	64	64	0	0	64
Florida	0	0	0	5	3	0	1	4
Georgia	0	0	0	2	2	0	0	4
Maryland	0	0	0	8	6	0	0	0
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	4	0	0	6
Virginia	0	0	0	7	6	0	0	2
West Virginia	0	0	0	0	6	0	0	8
East South Central	**0**	**0**	**0**	**4**	**4**	**0**	**0**	**0**
Alabama	0	0	0	8	8	0	0	0
Kentucky	0	0	0	160	37	0	0	3
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	10	10	0	0	10
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	5	6	0	0	1
Louisiana	0	0	0	0	25	0	0	4
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	1	1	0	0	1
Mountain	**0**	**12**	**0**	**1**	**2**	**0**	**0**	**1**
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	3	0	0	3
Idaho	0	59	0	7	6	0	0	11
Montana	0	0	0	36	7	0	0	7
Nevada	0	12	0	2	5	0	0	4
New Mexico	0	0	0	6	3	0	0	2
Utah	0	37	0	4	5	0	0	4
Wyoming	0	0	0	0	8	0	0	6
Pacific Contiguous	**0**	**5**	**0**	**1**	**1**	**0**	**7**	**1**
California	0	5	0	1	2	0	0	1
Oregon	0	42	0	7	4	0	48	4
Washington	0	0	0	42	6	0	0	9
Pacific Noncontiguous	**0**	**42**	**0**	**8**	**11**	**0**	**0**	**4**
Alaska	0	0	0	0	51	0	0	52
Hawaii	0	42	0	8	11	0	0	4
U.S. Total	**0**	**6**	**0**	**1**	**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, May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**48**	**0**	**25**	**0**	**0**	**0**
Connecticut	0	809	0	38	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	132	0	38	0	0	0
New Hampshire	0	3	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**	**134**	**0**	**27**	**0**	**0**	**0**
New Jersey	0	0	0	76	0	0	0
New York	0	215	0	33	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**33**	**18**	**0**	**12**	**0**	**0**	**0**
Illinois	33	619	0	41	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	570	0	17	0	0	0
Ohio	0	0	0	7	0	0	0
Wisconsin	0	96	0	30	0	0	0
West North Central	**0**	**35**	**0**	**16**	**0**	**0**	**0**
Iowa	0	0	0	44	0	0	0
Minnesota	0	41	0	39	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	1,378	0	0	0	0	0
South Atlantic	**0**	**4**	**0**	**12**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	43	0	0	0	0	0
Maryland	0	480	0	10	0	0	0
North Carolina	0	454	0	90	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**	**50**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	50	0	0	0
West South Central	**0**	**0**	**0**	**34**	**0**	**0**	**315**
Arkansas	0	0	0	176	0	0	0
Louisiana	0	0	0	37	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	45	0	0	315
Mountain	**0**	**1,075**	**0**	**11**	**0**	**0**	**0**
Arizona	0	1,075	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	37	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**35**	**0**	**3**	**0**	**0**	**219**
California	0	48	0	3	0	0	219
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**50**	**8**	**0**	**0**	**0**	**0**	**61**
Alaska	50	248	0	0	0	0	61
Hawaii	0	0	0	0	0	0	0
U.S. Total	**31**	**12**	**0**	**7**	**0**	**0**	**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.

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, May 2020 (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**	**63**	**12**	**0**	**0**	**20**
Connecticut	0	0	0	92	92	0	0	37
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	86	25	0	0	34
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**5**	**0**	**2**	**11**
New Jersey	0	0	0	17	10	0	0	11
New York	0	0	0	61	7	0	5	19
Pennsylvania	0	0	0	82	4	0	0	2
East North Central	**0**	**0**	**0**	**52**	**14**	**0**	**0**	**10**
Illinois	0	0	0	111	104	0	0	36
Indiana	0	0	0	151	25	0	0	3
Michigan	0	0	0	143	7	0	0	14
Ohio	0	0	0	101	39	0	0	8
Wisconsin	0	0	0	93	31	0	0	23
West North Central	**0**	**0**	**0**	**0**	**21**	**0**	**34**	**12**
Iowa	0	0	0	0	18	0	0	25
Kansas	0	0	0	0	132	0	0	132
Minnesota	0	0	0	0	51	0	34	26
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	227	0	0	227
South Dakota	0	0	0	0	0	0	0	1,378
South Atlantic	**0**	**0**	**0**	**18**	**7**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	68	26	0	0	18
Georgia	0	0	0	128	128	0	0	97
Maryland	0	0	0	53	30	0	0	10
North Carolina	0	0	0	20	20	0	0	31
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	163	4	0	0	2
East South Central	**0**	**0**	**0**	**96**	**96**	**0**	**0**	**49**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	96	96	0	0	49
West South Central	**0**	**0**	**0**	**20**	**16**	**0**	**0**	**30**
Arkansas	0	0	0	0	0	0	0	87
Louisiana	0	0	0	0	0	0	0	37
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	126	24	0	0	40
Mountain	**0**	**0**	**0**	**22**	**5**	**0**	**0**	**5**
Arizona	0	0	0	59	59	0	0	7
Colorado	0	0	0	47	49	0	0	33
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	26	4	0	0	3
New Mexico	0	0	0	0	271	0	0	37
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**17**	**6**	**0**	**0**	**3**
California	0	0	0	17	6	0	0	3
Oregon	0	0	0	0	27	0	0	10
Washington	0	0	0	0	0	0	0	0
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**
Alaska	0	0	0	0	0	0	0	39
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**8**	**3**	**0**	**1**	**4**

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 May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**48**	**0**	**25**	**0**	**0**	**0**
Connecticut	0	809	0	38	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	132	0	38	0	0	0
New Hampshire	0	3	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**	**134**	**0**	**27**	**0**	**0**	**0**
New Jersey	0	0	0	76	0	0	0
New York	0	215	0	33	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**33**	**18**	**0**	**12**	**0**	**0**	**0**
Illinois	33	619	0	41	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	570	0	17	0	0	0
Ohio	0	0	0	7	0	0	0
Wisconsin	0	96	0	30	0	0	0
West North Central	**0**	**35**	**0**	**16**	**0**	**0**	**0**
Iowa	0	0	0	44	0	0	0
Minnesota	0	41	0	39	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	1,378	0	0	0	0	0
South Atlantic	**0**	**4**	**0**	**12**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	43	0	0	0	0	0
Maryland	0	480	0	10	0	0	0
North Carolina	0	454	0	90	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**	**50**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	50	0	0	0
West South Central	**0**	**0**	**0**	**34**	**0**	**0**	**315**
Arkansas	0	0	0	176	0	0	0
Louisiana	0	0	0	37	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	45	0	0	315
Mountain	**0**	**1,075**	**0**	**11**	**0**	**0**	**0**
Arizona	0	1,075	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	37	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**35**	**0**	**3**	**0**	**0**	**219**
California	0	48	0	3	0	0	219
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**50**	**8**	**0**	**0**	**0**	**0**	**61**
Alaska	50	248	0	0	0	0	61
Hawaii	0	0	0	0	0	0	0
U.S. Total	**31**	**12**	**0**	**7**	**0**	**0**	**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.

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

Commercial Sector by Census Division and State, Year-to-Date through May 2020 (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**	**63**	**12**	**0**	**0**	**20**
Connecticut	0	0	0	92	92	0	0	37
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	86	25	0	0	34
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**5**	**0**	**2**	**11**
New Jersey	0	0	0	17	10	0	0	11
New York	0	0	0	61	7	0	5	19
Pennsylvania	0	0	0	82	4	0	0	2
East North Central	**0**	**0**	**0**	**52**	**14**	**0**	**0**	**10**
Illinois	0	0	0	111	104	0	0	36
Indiana	0	0	0	151	25	0	0	3
Michigan	0	0	0	143	7	0	0	14
Ohio	0	0	0	101	39	0	0	8
Wisconsin	0	0	0	93	31	0	0	23
West North Central	**0**	**0**	**0**	**0**	**21**	**0**	**34**	**12**
Iowa	0	0	0	0	18	0	0	25
Kansas	0	0	0	0	132	0	0	132
Minnesota	0	0	0	0	51	0	34	26
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	227	0	0	227
South Dakota	0	0	0	0	0	0	0	1,378
South Atlantic	**0**	**0**	**0**	**18**	**7**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	68	26	0	0	18
Georgia	0	0	0	128	128	0	0	97
Maryland	0	0	0	53	30	0	0	10
North Carolina	0	0	0	20	20	0	0	31
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	163	4	0	0	2
East South Central	**0**	**0**	**0**	**96**	**96**	**0**	**0**	**49**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	96	96	0	0	49
West South Central	**0**	**0**	**0**	**20**	**16**	**0**	**0**	**30**
Arkansas	0	0	0	0	0	0	0	87
Louisiana	0	0	0	0	0	0	0	37
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	126	24	0	0	40
Mountain	**0**	**0**	**0**	**22**	**5**	**0**	**0**	**5**
Arizona	0	0	0	59	59	0	0	7
Colorado	0	0	0	47	49	0	0	33
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	26	4	0	0	3
New Mexico	0	0	0	0	271	0	0	37
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**17**	**6**	**0**	**0**	**3**
California	0	0	0	17	6	0	0	3
Oregon	0	0	0	0	27	0	0	10
Washington	0	0	0	0	0	0	0	0
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**
Alaska	0	0	0	0	0	0	0	39
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**8**	**3**	**0**	**1**	**4**

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, May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**110**	**57**	**0**	**18**	**0**	**0**	**39**
Connecticut	0	0	0	25	0	0	0
Maine	110	57	0	38	0	0	39
Massachusetts	0	0	0	23	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	9,897	0	76	0	0	0
Middle Atlantic	**0**	**14**	**0**	**15**	**29**	**0**	**18**
New Jersey	0	0	0	17	0	0	0
New York	0	5	0	14	0	0	18
Pennsylvania	0	33	0	24	44	0	0
East North Central	**9**	**23**	**0**	**10**	**15**	**0**	**47**
Illinois	9	0	0	37	17	0	0
Indiana	0	19	0	9	18	0	0
Michigan	155	38	0	35	0	0	203
Ohio	0	0	0	17	0	0	0
Wisconsin	34	0	0	34	0	0	49
West North Central	**7**	**0**	**0**	**17**	**0**	**0**	**0**
Iowa	3	0	0	28	0	0	0
Kansas	0	0	0	78	0	0	0
Minnesota	54	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	22	0	0	0	0	0	0
North Dakota	89	0	0	0	0	0	0
South Atlantic	**13**	**36**	**64**	**9**	**0**	**0**	**16**
Delaware	0	0	0	0	0	0	0
Florida	39	97	0	20	0	0	0
Georgia	27	58	64	43	0	0	52
Maryland	0	0	0	0	0	0	0
North Carolina	0	92	0	57	0	0	391
South Carolina	0	0	0	25	0	0	0
Virginia	0	22	0	10	0	0	0
West Virginia	0	0	0	0	0	0	16
East South Central	**0**	**94**	**0**	**13**	**68**	**0**	**0**
Alabama	0	173	0	26	203	0	0
Kentucky	0	0	0	18	0	0	0
Mississippi	0	0	0	36	0	0	0
Tennessee	0	0	0	7	0	0	0
West South Central	**0**	**12**	**51**	**2**	**10**	**0**	**0**
Arkansas	0	0	0	55	0	0	0
Louisiana	0	0	0	3	11	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	14	51	3	11	0	0
Mountain	**31**	**0**	**0**	**12**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	193	0	0	84	0	0	0
Montana	390	0	0	890	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	31	0	0	19	0	0	0
Pacific Contiguous	**0**	**82**	**0**	**2**	**2**	**0**	**0**
California	0	0	0	1	2	0	0
Oregon	0	0	0	87	0	0	0
Washington	0	208	0	19	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**102**
Alaska	0	18	0	0	0	0	0
Hawaii	0	0	0	0	0	0	102
U.S. Total	**5**	**9**	**21**	**2**	**6**	**0**	**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.

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, May 2020 (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**	**79**	**12**	**0**	**0**	**10**
Connecticut	0	0	0	591	591	0	0	25
Maine	0	0	0	0	12	0	0	11
Massachusetts	0	0	0	80	84	0	0	22
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	76
Middle Atlantic	**0**	**0**	**0**	**48**	**14**	**0**	**0**	**11**
New Jersey	0	0	0	77	77	0	0	11
New York	0	0	0	94	36	0	0	12
Pennsylvania	0	0	0	74	14	0	0	16
East North Central	**0**	**0**	**0**	**0**	**8**	**0**	**5**	**5**
Illinois	0	0	0	0	0	0	19	9
Indiana	0	0	0	0	24	0	0	8
Michigan	0	0	0	0	15	0	0	17
Ohio	0	0	0	0	12	0	0	8
Wisconsin	0	0	0	0	14	0	53	16
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**
Iowa	0	0	0	0	0	0	0	4
Kansas	0	0	0	0	0	0	0	70
Minnesota	0	0	0	0	0	0	0	13
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	22
North Dakota	0	0	0	0	0	0	0	53
South Atlantic	**0**	**0**	**0**	**131**	**4**	**0**	**0**	**3**
Delaware	0	0	0	0	56	0	0	1
Florida	0	0	0	0	9	0	0	7
Georgia	0	0	0	0	7	0	0	8
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	8
South Carolina	0	0	0	131	4	0	0	5
Virginia	0	0	0	0	0	0	0	4
West Virginia	0	0	0	0	0	0	0	8
East South Central	**0**	**0**	**0**	**84**	**5**	**0**	**0**	**5**
Alabama	0	0	0	0	6	0	0	8
Kentucky	0	0	0	0	27	0	0	18
Mississippi	0	0	0	0	6	0	0	10
Tennessee	0	0	0	84	12	0	0	5
West South Central	**0**	**0**	**0**	**0**	**7**	**0**	**2**	**2**
Arkansas	0	0	0	0	13	0	0	15
Louisiana	0	0	0	0	9	0	0	3
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	16	0	7	3
Mountain	**0**	**0**	**0**	**85**	**2**	**0**	**0**	**7**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	131	2	0	0	15
Montana	0	0	0	0	0	0	0	80
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	11
Pacific Contiguous	**0**	**0**	**0**	**33**	**9**	**0**	**2**	**2**
California	0	0	0	33	16	0	2	1
Oregon	0	0	0	0	19	0	0	23
Washington	0	0	0	0	13	0	0	10
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Alaska	0	0	0	0	0	0	0	5
Hawaii	0	0	0	0	0	0	0	14
U.S. Total	**0**	**0**	**0**	**23**	**3**	**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 May 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**110**	**57**	**0**	**18**	**0**	**0**	**39**
Connecticut	0	0	0	25	0	0	0
Maine	110	57	0	38	0	0	39
Massachusetts	0	0	0	23	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	9,897	0	76	0	0	0
Middle Atlantic	**0**	**14**	**0**	**15**	**29**	**0**	**18**
New Jersey	0	0	0	17	0	0	0
New York	0	5	0	14	0	0	18
Pennsylvania	0	33	0	24	44	0	0
East North Central	**9**	**23**	**0**	**10**	**15**	**0**	**47**
Illinois	9	0	0	37	17	0	0
Indiana	0	19	0	9	18	0	0
Michigan	155	38	0	35	0	0	203
Ohio	0	0	0	17	0	0	0
Wisconsin	34	0	0	34	0	0	49
West North Central	**7**	**0**	**0**	**17**	**0**	**0**	**0**
Iowa	3	0	0	28	0	0	0
Kansas	0	0	0	78	0	0	0
Minnesota	54	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	22	0	0	0	0	0	0
North Dakota	89	0	0	0	0	0	0
South Atlantic	**13**	**36**	**64**	**9**	**0**	**0**	**16**
Delaware	0	0	0	0	0	0	0
Florida	39	97	0	20	0	0	0
Georgia	27	58	64	43	0	0	52
Maryland	0	0	0	0	0	0	0
North Carolina	0	92	0	57	0	0	391
South Carolina	0	0	0	25	0	0	0
Virginia	0	22	0	10	0	0	0
West Virginia	0	0	0	0	0	0	16
East South Central	**0**	**94**	**0**	**13**	**68**	**0**	**0**
Alabama	0	173	0	26	203	0	0
Kentucky	0	0	0	18	0	0	0
Mississippi	0	0	0	36	0	0	0
Tennessee	0	0	0	7	0	0	0
West South Central	**0**	**12**	**51**	**2**	**10**	**0**	**0**
Arkansas	0	0	0	55	0	0	0
Louisiana	0	0	0	3	11	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	14	51	3	11	0	0
Mountain	**31**	**0**	**0**	**12**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	193	0	0	84	0	0	0
Montana	390	0	0	890	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	31	0	0	19	0	0	0
Pacific Contiguous	**0**	**82**	**0**	**2**	**2**	**0**	**0**
California	0	0	0	1	2	0	0
Oregon	0	0	0	87	0	0	0
Washington	0	208	0	19	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**102**
Alaska	0	18	0	0	0	0	0
Hawaii	0	0	0	0	0	0	102
U.S. Total	**5**	**9**	**21**	**2**	**6**	**0**	**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.

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

Industrial Sector by Census Division and State, Year-to-Date through May 2020 (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**	**79**	**12**	**0**	**0**	**10**
Connecticut	0	0	0	591	591	0	0	25
Maine	0	0	0	0	12	0	0	11
Massachusetts	0	0	0	80	84	0	0	22
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	76
Middle Atlantic	**0**	**0**	**0**	**48**	**14**	**0**	**0**	**11**
New Jersey	0	0	0	77	77	0	0	11
New York	0	0	0	94	36	0	0	12
Pennsylvania	0	0	0	74	14	0	0	16
East North Central	**0**	**0**	**0**	**0**	**8**	**0**	**5**	**5**
Illinois	0	0	0	0	0	0	19	9
Indiana	0	0	0	0	24	0	0	8
Michigan	0	0	0	0	15	0	0	17
Ohio	0	0	0	0	12	0	0	8
Wisconsin	0	0	0	0	14	0	53	16
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**
Iowa	0	0	0	0	0	0	0	4
Kansas	0	0	0	0	0	0	0	70
Minnesota	0	0	0	0	0	0	0	13
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	22
North Dakota	0	0	0	0	0	0	0	53
South Atlantic	**0**	**0**	**0**	**131**	**4**	**0**	**0**	**3**
Delaware	0	0	0	0	56	0	0	1
Florida	0	0	0	0	9	0	0	7
Georgia	0	0	0	0	7	0	0	8
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	8
South Carolina	0	0	0	131	4	0	0	5
Virginia	0	0	0	0	0	0	0	4
West Virginia	0	0	0	0	0	0	0	8
East South Central	**0**	**0**	**0**	**84**	**5**	**0**	**0**	**5**
Alabama	0	0	0	0	6	0	0	8
Kentucky	0	0	0	0	27	0	0	18
Mississippi	0	0	0	0	6	0	0	10
Tennessee	0	0	0	84	12	0	0	5
West South Central	**0**	**0**	**0**	**0**	**7**	**0**	**2**	**2**
Arkansas	0	0	0	0	13	0	0	15
Louisiana	0	0	0	0	9	0	0	3
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	16	0	7	3
Mountain	**0**	**0**	**0**	**85**	**2**	**0**	**0**	**7**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	131	2	0	0	15
Montana	0	0	0	0	0	0	0	80
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	11
Pacific Contiguous	**0**	**0**	**0**	**33**	**9**	**0**	**2**	**2**
California	0	0	0	33	16	0	2	1
Oregon	0	0	0	0	19	0	0	23
Washington	0	0	0	0	13	0	0	10
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Alaska	0	0	0	0	0	0	0	5
Hawaii	0	0	0	0	0	0	0	14
U.S. Total	**0**	**0**	**0**	**23**	**3**	**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, May 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	0	1	2	0	1
Massachusetts	0	1	5	0	1
New Hampshire	0	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	2	8	8	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	2	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	0	2	5	0	1
Ohio	0	1	1	0	1
Wisconsin	1	4	7	0	3
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	1	8	6	0	4
Kansas	3	2	11	0	3
Minnesota	1	5	10	0	3
Missouri	1	3	7	0	2
Nebraska	1	8	11	0	5
North Dakota	1	5	10	0	5
South Dakota	2	10	17	0	5
South Atlantic	**1**	**0**	**2**	**0**	**0**
Delaware	1	2	5	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	7	0	1
Georgia	2	1	6	0	2
Maryland	0	1	2	0	0
North Carolina	1	1	5	0	1
South Carolina	2	1	5	0	2
Virginia	1	0	6	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**3**	**0**	**1**
Alabama	2	2	4	0	2
Kentucky	1	4	3	0	2
Mississippi	3	2	7	0	3
Tennessee	1	5	6	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	3	2	6	0	3
Louisiana	2	1	2	0	1
Oklahoma	2	1	6	0	2
Texas	2	1	3	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	2	5	8	0	3
Idaho	1	5	4	0	2
Montana	1	8	6	0	3
Nevada	0	2	2	0	1
New Mexico	2	8	9	0	4
Utah	2	6	3	0	2
Wyoming	1	8	5	0	4
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	10	0	3
Washington	1	5	9	0	3
Pacific Noncontiguous	**1**	**5**	**6**	**0**	**2**
Alaska	1	11	20	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 May 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	0	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	1	2	3	0	1
Rhode Island	0	0	0	0	0
Vermont	2	6	6	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	0	2	4	0	1
Ohio	0	1	1	0	0
Wisconsin	1	3	6	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	1	7	5	0	3
Kansas	1	1	7	0	2
Minnesota	1	4	8	0	3
Missouri	1	2	5	0	1
Nebraska	1	7	9	0	4
North Dakota	1	4	8	0	4
South Dakota	2	8	13	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	5	0	1
District of Columbia	0	0	0	0	0
Florida	0	0	5	0	0
Georgia	1	1	4	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	4	1	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	3	0	1
Kentucky	1	3	2	0	1
Mississippi	1	2	5	0	2
Tennessee	1	3	4	0	1
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	1	1	4	0	2
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	2
Texas	1	1	2	0	1
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	4	6	0	2
Idaho	1	4	5	0	2
Montana	1	7	6	0	3
Nevada	0	2	1	0	1
New Mexico	1	6	6	0	3
Utah	1	4	3	0	2
Wyoming	2	7	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	8	0	2
Pacific Noncontiguous	**1**	**4**	**5**	**0**	**2**
Alaska	2	9	16	0	5
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, May 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**1**	**0**	**0**
Connecticut	0	1	1	0	0
Maine	0	1	2	0	1
Massachusetts	0	1	3	0	1
New Hampshire	0	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	6	5	0	2
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	0	1	5	0	1
Ohio	0	1	1	0	0
Wisconsin	1	3	9	0	2
West North Central	**1**	**2**	**5**	**0**	**1**
Iowa	2	6	8	0	3
Kansas	3	3	10	0	2
Minnesota	1	4	11	0	3
Missouri	1	3	5	0	1
Nebraska	2	7	13	0	5
North Dakota	2	4	9	0	4
South Dakota	3	8	17	0	4
South Atlantic	**1**	**1**	**3**	**0**	**0**
Delaware	1	3	6	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	10	0	1
Georgia	2	2	7	0	1
Maryland	0	1	2	0	0
North Carolina	2	2	5	0	1
South Carolina	2	2	5	0	2
Virginia	1	1	6	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**3**	**0**	**1**
Alabama	2	2	4	0	1
Kentucky	1	4	3	0	2
Mississippi	3	3	9	0	3
Tennessee	1	5	7	0	2
West South Central	**1**	**1**	**3**	**0**	**1**
Arkansas	3	3	7	0	2
Louisiana	2	2	2	0	1
Oklahoma	2	3	8	0	2
Texas	2	1	3	0	1
Mountain	**1**	**2**	**3**	**0**	**1**
Arizona	1	2	6	0	1
Colorado	2	5	10	0	3
Idaho	1	4	4	0	2
Montana	2	5	8	0	3
Nevada	1	3	3	0	1
New Mexico	3	9	14	0	5
Utah	2	6	5	0	3
Wyoming	3	7	6	0	4
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	3	11	0	2
Washington	1	3	10	0	2
Pacific Noncontiguous	**1**	**3**	**4**	**0**	**1**
Alaska	2	7	18	0	5
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 May 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**1**	**0**	**0**
Connecticut	0	1	1	0	0
Maine	0	1	1	0	0
Massachusetts	0	1	3	0	1
New Hampshire	1	2	3	0	1
Rhode Island	0	0	0	0	0
Vermont	2	5	4	0	2
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	0
Indiana	1	3	1	0	1
Michigan	1	1	5	0	1
Ohio	1	1	1	0	0
Wisconsin	1	2	7	0	2
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	2	5	7	0	3
Kansas	1	2	6	0	2
Minnesota	2	3	9	0	2
Missouri	1	3	4	0	1
Nebraska	2	6	12	0	4
North Dakota	2	3	7	0	3
South Dakota	2	6	15	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	3	5	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	5	0	0
Georgia	1	1	4	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	2	1	4	1	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	2	3	0	1
Kentucky	2	3	2	0	1
Mississippi	2	2	5	0	2
Tennessee	1	3	4	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	1	2	4	0	1
Louisiana	1	1	2	0	1
Oklahoma	1	2	5	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**3**	**0**	**1**
Arizona	1	2	5	0	1
Colorado	2	4	7	0	2
Idaho	1	4	6	0	2
Montana	2	5	10	0	3
Nevada	1	2	2	0	1
New Mexico	3	7	10	0	4
Utah	3	5	4	0	2
Wyoming	3	6	5	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	3	11	0	2
Washington	1	3	9	0	2
Pacific Noncontiguous	**1**	**2**	**3**	**0**	**1**
Alaska	2	6	15	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.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, May 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**0**	**0**
Connecticut	0	0	2	0	0
Maine	0	0	1	0	0
Massachusetts	0	0	3	0	1
New Hampshire	0	0	1	0	0
Rhode Island	0	0	0	0	0
Vermont	2	2	4	0	2
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	0	0	0
East North Central	**0**	**0**	**1**	**0**	**0**
Illinois	0	0	0	0	0
Indiana	1	1	1	0	1
Michigan	0	1	1	0	1
Ohio	0	0	0	0	0
Wisconsin	1	1	2	0	1
West North Central	**1**	**1**	**1**	**0**	**1**
Iowa	1	3	2	0	1
Kansas	3	2	7	0	3
Minnesota	1	2	2	0	1
Missouri	1	1	3	0	1
Nebraska	2	2	4	0	1
North Dakota	2	1	2	0	1
South Dakota	2	3	3	0	2
South Atlantic	**1**	**1**	**2**	**0**	**0**
Delaware	1	1	2	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	6	0	1
Georgia	2	1	4	0	1
Maryland	0	0	1	0	0
North Carolina	2	1	3	0	1
South Carolina	2	2	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	2	2	3	0	1
Kentucky	1	1	1	0	1
Mississippi	3	3	6	0	2
Tennessee	1	1	3	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	3	3	4	0	2
Louisiana	2	2	2	0	1
Oklahoma	2	2	5	0	2
Texas	1	1	2	0	1
Mountain	**1**	**0**	**1**	**0**	**0**
Arizona	0	1	2	0	0
Colorado	2	1	3	0	1
Idaho	1	1	1	0	1
Montana	2	3	2	0	1
Nevada	1	1	1	0	0
New Mexico	3	2	7	0	2
Utah	2	1	2	0	1
Wyoming	2	2	1	0	1
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	0	1	0	0
Oregon	1	2	2	0	1
Washington	1	2	1	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 May 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	0	1	2	0	1
Massachusetts	0	1	4	0	1
New Hampshire	0	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	2	6	6	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	1	2	5	0	1
Ohio	0	1	1	0	0
Wisconsin	1	3	8	0	3
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	2	7	8	0	3
Kansas	1	2	8	0	2
Minnesota	2	4	10	0	3
Missouri	1	3	6	0	2
Nebraska	2	7	13	0	5
North Dakota	2	4	9	0	4
South Dakota	3	9	16	0	5
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	3	5	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	6	0	1
Georgia	1	1	5	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	1	4	0	1
Virginia	1	1	5	1	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	2	3	0	1
Kentucky	2	4	3	0	2
Mississippi	2	3	6	0	2
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	1	2	5	0	2
Louisiana	1	2	2	0	1
Oklahoma	1	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	1	4	6	0	2
Montana	2	7	8	0	3
Nevada	1	2	2	0	1
New Mexico	3	7	10	0	4
Utah	2	5	4	0	2
Wyoming	3	7	6	0	4
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	11	0	3
Washington	1	4	10	0	2
Pacific Noncontiguous	**1**	**4**	**5**	**0**	**2**
Alaska	2	9	18	0	5
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 2020

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
2020	1	. .	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	4	Unknown
2020	1	. .	. .	. Hours, . Minutes	Entergy Corp	SPP RE	Arkansas: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	68138
2020	1	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Yell County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2020	1	. .	. .	. Hours, . Minutes	Entergy Transmission Control Center - South	SPP RE	Arkansas:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations	Unknown	Unknown
2020	1	. .	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	219	30715
2020	1	. .	. .	. Hours, . 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	66475
2020	1	. .	. .	. 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
2020	1	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Cross County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	22	7541
2020	1	. .	. .	. Hours, . Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	North Dakota: Burleigh County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	75	0
2020	1	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Humboldt County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather/Transmission Interruption	87	67864
2020	2	. .	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	Unknown	52000
2020	2	. .	. .	. Hours, . 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	123359
2020	2	. .	. .	. Hours, . 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/Transmission Interruption	Unknown	89500
2020	2	. .	. .	. Hours, . Minutes	Duke Energy Progress	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	Unknown	284256
2020	2	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern and Central California;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	91	70000
2020	2	. .	. .	. Hours, . 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	7500
2020	2	. .	. .	. Hours, . Minutes	Portland General Electric Co	WECC	Oregon: Clackamas County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	Unknown	0
2020	2	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Alameda County, Contra Costa County, El Dorado County, Nevada County, Placer County, Sierra County, Santa Clara County, Napa County, Marin County, Santa Cruz County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	500	145000
2020	2	. .	. .	. Hours, . Minutes	Dominion Energy VA	SERC	Virginia: North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	87000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

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
2020	3	. .	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	412	57744
2020	3	. .	. .	. Hours, . Minutes	Pacificorp	WECC	Utah:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Natural Disaster	237	73000
2020	3	. .	. .	. 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	165	110800
2020	3	. .	. .	. Hours, . Minutes	PECO Energy Co	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	40	15864
2020	3	. .	. .	. Hours, . 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	51026
2020	3	. .	. .	. Hours, . Minutes	Somerset Operating Company	NPCC	Western NY	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	675	Unknown
2020	3	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: Rankin County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	19	3136
2020	3	. .	. .	. Hours, . Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	19	11964
2020	3	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: Panola County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	4	1558
2020	4	. .	. .	. Hours, . Minutes	Bonneville Power Administration	WECC	Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	4	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Stanislaus County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	7	6814
2020	4	. .	. .	. Hours, . Minutes	Southern Company	SERC	Mississippi: Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	448	62828
2020	4	. .	. .	. Hours, . Minutes	Nebraska Public Power District	MRO	Nebraska: York County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	5	Unknown
2020	4	. .	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania: Bucks County, Chester County, Delaware County, Montgomery County, Philadelphia County, York County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78007
2020	4	. .	. .	. Hours, . Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	77933
2020	4	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	TRE	Texas: Jefferson County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	14	1
2020	4	. .	. .	. 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	49999
2020	4	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Placer County, Nevada County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations	5	945
2020	4	. .	. .	. Hours, . 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	375	52163

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

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
2020	4	. .	. .	. Hours, . Minutes	Entergy Corp	SERC	Mississippi: Arkansas: Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	55184
2020	4	. .	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Mississippi: Georgia: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	552	77341
2020	4	. .	. .	. Hours, . 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	68476
2020	4	. .	. .	. Hours, . Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	Unknown
2020	4	. .	. .	. Hours, . Minutes	Dominion Energy VA	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95000
2020	4	. .	. .	. Hours, . Minutes	Dominion Energy South Carolina	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	72233
2020	4	. .	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee: Hamilton County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	120000
2020	4	. .	. .	. Hours, . 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	216400
2020	4	. .	. .	. Hours, . Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	63289
2020	4	. .	. .	. Hours, . Minutes	American Electric Power - (RFC Reliability Region)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	104000
2020	4	. .	. .	. Hours, . Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	146660
2020	4	. .	. .	. Hours, . Minutes	Arkansas Electric Coop Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	51000
2020	4	. .	. .	. Hours, . Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95318
2020	4	. .	. .	. Hours, . Minutes	Pacificorp	WECC	Wyoming:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	4	. .	. .	. Hours, . Minutes	ISO New England	NPCC	Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	340000
2020	4	. .	. .	. Hours, . 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	95000
2020	4	. .	. .	. Hours, . Minutes	Ohio Edison Co	WECC	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	82509
2020	4	. .	. .	. Hours, . Minutes	Duke Energy Midwest	RF	Indiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	93000
2020	4	. .	. .	. Hours, . Minutes	Duke Energy Midwest	RF	Ohio: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78314
2020	5	. .	. .	. Hours, . Minutes	LCRA Transmission Services Corporation	TRE	Texas: Kerr County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	3745
2020	5	. .	. .	. Hours, . Minutes	Oklahoma Gas & Electric Co	SPP RE	Central Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	54000
2020	5	. .	. .	. Hours, . 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	108190
2020	5	. .	. .	. Hours, . Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York: Saratoga County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	52
2020	5	. .	. .	. Hours, . Minutes	Bonneville Power Administration	WECC	Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	5	. .	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee: Davidson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	500	130000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

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
2020	5	. .	. .	. Hours, . Minutes	FirstEnergy Corp	RF	Pennsylvania: Warren County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	5	. .	. .	. Hours, . Minutes	CenterPoint Energy	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	273269
2020	5	. .	. .	. Hours, . Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	382000

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, 2019

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
2019	1	01/06/2019 1:00 AM	01/06/2019 12:00 PM	11 Hours, 0 Minutes	Puget Sound Energy	WECC	Washington: King County, Thurston County, Pierce County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		230000
2019	1	01/06/2019 3:00 AM	01/09/2019 7:00 AM	76 Hours, 0 Minutes	Peak Reliability	WECC	Washington:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	230	230000
2019	1	01/06/2019 5:56 PM	01/06/2019 9:52 PM	3 Hours, 56 Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	300	90382
2019	1	01/10/2019 12:19 PM	01/10/2019 12:48 PM	0 Hours, 29 Minutes	Western Area Power Administration - Upper Great Plains Region	WECC	Montana: Valley County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	11	2
2019	1	01/12/2019 11:30 AM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SERC	Missouri: Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		116600
2019	1	01/12/2019 11:30 AM	01/13/2019 10:00 PM	34 Hours, 30 Minutes	Kansas City Power & Light Co	SPP RE	Missouri: Jackson County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		112530
2019	1	01/13/2019 5:30 AM	01/15/2019 5:00 PM	59 Hours, 30 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	133200	
2019	1	01/16/2019 5:26 PM	01/17/2019 12:19 PM	18 Hours, 53 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	190	126700
2019	1	01/18/2019 9:54 PM	01/19/2019 12:19 AM	2 Hours, 25 Minutes	Nebraska Public Power District	MRO	Nebraska:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	
2019	1	01/23/2019 7:26 AM	01/23/2019 5:05 PM	9 Hours, 39 Minutes	Western Area Power Administration	WECC	Colorado: Larimer County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	0	0
2019	1	01/29/2019 6:34 PM	01/29/2019 6:36 PM	0 Hours, 2 Minutes	Entergy Transmission Control Center - North	SERC	Louisiana: Washington Parish;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		
2019	1	01/30/2019 4:23 AM	02/02/2019 9:00 AM	76 Hours, 37 Minutes	Prairie Power, Inc.	SERC	Illinois: Scott County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency		
2019	1	01/30/2019 7:00 AM	01/30/2019 8:08 AM	1 Hours, 8 Minutes	Prairie Power, Inc.	SERC	Illinois: Pike County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Severe Weather		
2019	1	01/30/2019 9:30 AM	01/31/2019 6:00 PM	32 Hours, 30 Minutes	Detroit Edison Co	RF	Michigan:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	2	02/05/2019 6:17 PM	02/05/2019 8:26 PM	2 Hours, 9 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather	42	33200
2019	2	02/07/2019 7:39 AM	02/07/2019 7:40 AM	0 Hours, 1 Minutes	Entergy Transmission Control Center - North	SERC	Arkansas	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	3	3370
2019	2	02/07/2019 8:55 AM	02/09/2019 4:30 PM	55 Hours, 35 Minutes	Consumers Energy Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		233000
2019	2	02/08/2019 6:30 PM	. .	. Hours, . Minutes	Puget Sound Energy	WECC	Washington	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		50940
2019	2	02/13/2019 2:48 AM	02/15/2019 12:28 AM	45 Hours, 40 Minutes	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	182	121000
2019	2	02/23/2019 2:05 PM	. .	. Hours, . Minutes	American Electric Power - (RFC Reliability Region)	SERC	Virginia	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	2	02/24/2019 11:21 AM	02/26/2019 5:29 PM	54 Hours, 8 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio, Virginia, West Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		118781
2019	2	02/24/2019 12:31 PM	02/24/2019 2:57 PM	2 Hours, 26 Minutes	Ohio Edison Co	RF	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		157274
2019	2	02/24/2019 2:33 PM	02/24/2019 6:03 PM	3 Hours, 30 Minutes	Monongahela Power Co	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		94048
2019	2	02/24/2019 6:00 PM	02/25/2019 10:00 PM	28 Hours, 0 Minutes	Duquesne Light Co	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		132000
2019	2	02/24/2019 6:47 PM	02/25/2019 1:55 PM	19 Hours, 8 Minutes	West Penn Power Company	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		137216
2019	2	02/24/2019 8:02 PM	02/25/2019 2:30 PM	18 Hours, 28 Minutes	Consumers Energy Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		115000
2019	2	02/25/2019 7:45 AM	02/25/2019 6:40 PM	10 Hours, 55 Minutes	ISO New England	NPCC	Massachusetts	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	2	02/25/2019 1:35 PM	02/26/2019 2:50 AM	13 Hours, 15 Minutes	ISO New England	NPCC	Connecticut, Massachusetts, New Hampshire, Maine, Vermont, Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		72332
2019	2	02/27/2019 11:25 AM	02/27/2019 5:39 PM	6 Hours, 14 Minutes	MidAmerican Energy Co	MRO	Iowa	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	3	03/13/2019 5:50 AM	03/13/2019 10:30 AM	4 Hours, 40 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Midland County, Ector County, Tarrant County, Dallas County, Wichita County, Brown County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		154124
2019	3	03/13/2019 11:29 AM	03/14/2019 9:11 PM	33 Hours, 42 Minutes	Public Service Company of Colorado	WECC	Colorado: Jefferson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	58	58379
2019	3	03/13/2019 3:00 PM	03/14/2019 12:00 AM	9 Hours, 0 Minutes	Southwest Power Pool, Inc.	TRE	Texas: Kansas: Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		66000
2019	3	03/13/2019 3:51 PM	03/16/2019 6:00 PM	74 Hours, 9 Minutes	Southwestern Public Service	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	50	54290
2019	4	04/03/2019 5:15 AM	04/03/2019 12:39 PM	7 Hours, 24 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
2019	4	04/04/2019 10:13 AM	04/04/2019 12:08 PM	1 Hours, 55 Minutes	Bonneville Power Administration	WECC	Montana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/07/2019 1:46 PM	04/08/2019 5:50 PM	28 Hours, 4 Minutes	CenterPoint Energy	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	537	231956
2019	4	04/11/2019 7:48 PM	04/11/2019 8:00 PM	0 Hours, 12 Minutes	Bonneville Power Administration	WECC	Oregon: Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/12/2019 11:20 AM	04/12/2019 12:46 PM	1 Hours, 26 Minutes	Xcel Energy	MRO	Minnesota: Martin County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/13/2019 6:15 PM	04/13/2019 11:15 PM	5 Hours, 0 Minutes	Entergy Corp	SERC	Mississippi: Arkansas: Texas: Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		60467
2019	4	04/15/2019 4:35 AM	04/15/2019 2:40 PM	10 Hours, 5 Minutes	Dominion Virginia Power	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		75290
2019	4	04/18/2019 7:55 PM	04/19/2019 5:29 PM	21 Hours, 34 Minutes	Southern Company	SERC	Alabama: Mississippi: Georgia: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	116	34695

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	4	04/18/2019 8:08 PM	04/19/2019 11:00 AM	14 Hours, 52 Minutes	Public Service Company of Colorado	WECC	Colorado: Clear Creek County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/25/2019 6:03 PM	04/25/2019 6:32 PM	0 Hours, 29 Minutes	Salt River Project	WECC	Arizona: Maricopa County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Generation Inadequacy	150	51366
2019	4	04/26/2019 1:00 AM	04/26/2019 1:27 PM	12 Hours, 27 Minutes	FirstEnergy Corp	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	7	5830
2019	4	04/26/2019 3:16 PM	04/26/2019 3:17 PM	0 Hours, 1 Minutes	ISO New England	NPCC	Massachusetts: Hampden County[13];	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	4	04/26/2019 5:46 PM	04/27/2019 11:49 AM	18 Hours, 3 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		54071
2019	4	04/28/2019 10:43 AM	04/29/2019 2:06 AM	15 Hours, 23 Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	5	05/08/2019 9:22 AM	05/08/2019 9:56 AM	0 Hours, 34 Minutes	PJM Interconnection	RF	Pennsylvania: Mercer County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	29	1
2019	5	05/08/2019 3:50 PM	05/13/2019 12:00 AM	104 Hours, 10 Minutes	Southwest Power Pool, Inc.	SPP RE	Louisiana: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		65844
2019	5	05/09/2019 5:55 PM	05/11/2019 8:50 PM	50 Hours, 55 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	691	238015
2019	5	05/09/2019 7:06 PM	05/10/2019 2:57 AM	7 Hours, 51 Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	5	05/10/2019 2:00 AM	05/10/2019 12:15 PM	10 Hours, 15 Minutes	Entergy Corp	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		61008
2019	5	05/18/2019 3:45 PM	05/20/2019 4:00 AM	36 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Ector County, Midland County, Tarrant County, Dallas County, Stephens County, Anderson County, McLennan County, Ellis County, Hunt County, Young County, Bell County, Limestone County, Collin County, Rockwall County, Henderson County, Parker County, Falls County, Freestone County, Kaufman County, Grayson County, Smith County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		68000
2019	5	05/23/2019 1:11 AM	05/23/2019 12:00 PM	10 Hours, 49 Minutes	Northern Indiana Pub Serv Co	RF	Indiana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	5	05/23/2019 4:55 PM	05/23/2019 11:40 PM	6 Hours, 45 Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		100000
2019	5	05/24/2019 9:47 PM	05/24/2019 11:58 PM	2 Hours, 11 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system-Severe Weather	20	10961
2019	5	05/27/2019 10:07 PM	05/28/2019 3:00 AM	4 Hours, 53 Minutes	Dayton Power & Light Co	RF	Ohio: Montgomery County, Darke County, Mercer County, Miami County, Greene County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	347	70000

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	6	06/02/2019 6:19 PM	06/02/2019 8:43 PM	2 Hours, 24 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather/Transmission Interruption		
2019	6	06/06/2019 6:09 PM	06/06/2019 6:35 PM	0 Hours, 26 Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		55017
2019	6	06/07/2019 2:43 PM	06/07/2019 4:20 PM	1 Hours, 37 Minutes	American Electric Power - Texas	TRE	Texas: Pecos County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	1
2019	6	06/08/2019 3:50 PM	06/08/2019 7:40 PM	3 Hours, 50 Minutes	Southwestern Public Service	TRE	Texas: Potter County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	6	06/09/2019 2:45 PM	06/13/2019 10:30 PM	103 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Palo Pinto County, Tarrant County, Ellis County, Williamson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		558000
2019	6	06/12/2019 2:56 PM	06/12/2019 3:50 PM	0 Hours, 54 Minutes	Imperial Irrigation District	WECC	California: Imperial County, Riverside County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Generation Inadequacy	982	30907
2019	6	06/16/2019 2:00 AM	06/17/2019 11:59 PM	45 Hours, 59 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County, Collin County, Denton County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		340000
2019	6	06/16/2019 3:25 AM	. .	. Hours, . Minutes	American Electric Power - (SPP Reliability Region)	SPP RE	Oklahoma:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		
2019	6	06/19/2019 10:30 PM	06/20/2019 7:00 PM	20 Hours, 30 Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		82045
2019	6	06/20/2019 4:11 PM	06/21/2019 12:45 PM	20 Hours, 34 Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		60000
2019	6	06/21/2019 7:15 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Kentucky: Tennessee:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather		50000
2019	6	06/22/2019 8:46 PM	06/23/2019 12:30 AM	3 Hours, 44 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	115	34637
2019	6	06/23/2019 5:13 AM	06/23/2019 10:58 AM	5 Hours, 45 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	47	16199
2019	6	06/23/2019 10:00 PM	06/25/2019 11:00 PM	49 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Denton County, Ellis County, Collin County, Ellis County, Hood County, Johnson County, Kaufman County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		265000
2019	6	06/24/2019 5:30 AM	06/24/2019 8:45 AM	3 Hours, 15 Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		56451
2019	6	06/26/2019 1:58 PM	06/26/2019 2:03 PM	0 Hours, 5 Minutes	Montana-Dakota Utilities Co	MRO	North Dakota: Williams County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	53	0
2019	6	06/28/2019 2:25 PM	. .	. Hours, . Minutes	Bonneville Power Administration	WECC	Idaho: Nez Perce County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	6	06/30/2019 3:15 PM	06/30/2019 4:15 PM	1 Hours, 0 Minutes	Long Island Power Authority	NPCC	New York: Nassau County, Suffolk County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	3189	52498

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	6	06/30/2019 3:30 PM	06/30/2019 8:30 PM	5 Hours, 0 Minutes	ComEd	SERC	Illinois: Cook County, DeKalb County, DuPage County, Grundy County, Iroquois County, Ford County, Lake County, Kendall County, Kankakee County, Kane County, Ogle County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		100000
2019	7	07/10/2019 12:10 PM	07/12/2019 12:30 PM	48 Hours, 20 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Hood County, Johnson County, Tarrant County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		57000
2019	7	07/11/2019 11:08 AM	07/11/2019 11:13 AM	0 Hours, 5 Minutes	Southwestern Public Service	TRE	Texas: Lynn County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	26	2043
2019	7	07/13/2019 7:15 AM	07/14/2019 5:00 PM	33 Hours, 45 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		55730
2019	7	07/13/2019 6:47 PM	07/13/2019 11:37 PM	4 Hours, 50 Minutes	NYISO	NPCC	New York: New York County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Transmission Interruption	452	72669
2019	7	07/13/2019 11:55 PM	07/14/2019 1:00 PM	13 Hours, 5 Minutes	Cleco Power LLC	SERC	Louisiana: Acadia Parish, Avoyelles Parish, Catahoula Parish, Evangeline Parish, Grant Parish, Iberia Parish, LaSalle Parish, Natchitoches Parish, Rapides Parish, Sabine Parish, St. Landry Parish, St. Martin Parish, St. Mary Parish, St. Tammany Parish, Allen Parish, Beauregard Parish, Calcasieu Parish, Vermilion Parish, De Soto Parish, Jefferson Davis Parish, Red River Parish, Tangipahoa Parish, V	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		63000
2019	7	07/19/2019 7:00 PM	07/21/2019 8:00 PM	49 Hours, 0 Minutes	Detroit Edison Co	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		400000
2019	7	07/20/2019 3:00 AM	07/22/2019 7:00 AM	52 Hours, 0 Minutes	Consumers Energy Co	RF	Michigan: Kent County, Newaygo County, Mecosta County, Montcalm County, Isabella County, Ionia County, Allegan County, Barry County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		160000
2019	7	07/20/2019 11:55 AM	07/23/2019 12:00 AM	60 Hours, 5 Minutes	WEC Energy Group (WEPCO, WPSC, UMERC, WEP-MIUP)	RF	Wisconsin: Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	200	50000
2019	7	07/21/2019 11:00 PM	07/22/2019 8:54 PM	21 Hours, 54 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: Kings County, New York County, Queens County, Bronx County, Westchester County, Richmond County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	60	45000
2019	7	07/22/2019 4:00 PM	07/24/2019 11:00 PM	55 Hours, 0 Minutes	PECO Energy Co	RF	Pennsylvania: Bucks County, Delaware County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		165000
2019	7	07/22/2019 5:50 PM	07/25/2019 1:15 PM	67 Hours, 25 Minutes	Public Service Electric & Gas	RF	New Jersey: Gloucester County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	49	95600
2019	7	07/23/2019 3:39 PM	07/23/2019 7:00 PM	3 Hours, 21 Minutes	ISO New England	NPCC	Massachusetts:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	54	54535
2019	7	07/23/2019 11:55 PM	07/23/2019 11:56 PM	0 Hours, 1 Minutes	Nebraska Public Power District	MRO	Nebraska:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	7	07/23/2019 11:55 PM	07/24/2019 5:22 AM	5 Hours, 27 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	Nebraska: Scotts Bluff County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	7	07/30/2019 8:45 AM	07/30/2019 9:45 AM	1 Hours, 0 Minutes	City of Alexandria	SERC	Louisiana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		13720
2019	8	08/02/2019 1:49 AM	08/02/2019 1:55 AM	0 Hours, 6 Minutes	Northern States Power Co	MRO	Minnesota: Chisago County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	8	08/05/2019 5:23 PM	08/06/2019 12:02 AM	6 Hours, 39 Minutes	Bonneville Power Administration	WECC	Oregon: Umatilla County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	66	
2019	8	08/08/2019 4:16 PM	08/08/2019 10:41 PM	6 Hours, 25 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		5600
2019	8	08/13/2019 10:00 AM	08/13/2019 11:00 AM	1 Hours, 0 Minutes	Rio Bravo Rocklin	WECC	California: Placer County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-Vandalism	0	0
2019	8	08/13/2019 3:10 PM	08/13/2019 5:30 PM	2 Hours, 20 Minutes	ERCOT	TRE	Texas: Williamson County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	8	08/15/2019 8:30 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	150	
2019	8	08/15/2019 3:11 PM	08/15/2019 6:00 PM	2 Hours, 49 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	8	08/15/2019 11:03 PM	08/16/2019 12:37 AM	1 Hours, 34 Minutes	Pacific Gas & Electric Co	WECC	California: Marin County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Distribution Interruption	80	61318
2019	8	08/18/2019 3:59 PM	08/18/2019 11:00 PM	7 Hours, 1 Minutes	Southwest Power Pool, Inc.	SPP RE	Louisiana: Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Transmission Interruption	271	86373
2019	8	08/18/2019 4:30 PM	08/18/2019 10:00 PM	5 Hours, 30 Minutes	East Texas Electric Coop, Inc	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Transmission Interruption/Distribution Interruption	259	61000
2019	8	08/18/2019 4:47 PM	08/18/2019 11:00 PM	6 Hours, 13 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Distribution Interruption	752	86373
2019	8	08/26/2019 9:09 AM	08/26/2019 1:34 PM	4 Hours, 25 Minutes	Great River Energy	MRO	North Dakota:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	8	08/26/2019 7:00 PM	08/27/2019 3:00 AM	8 Hours, 0 Minutes	Southwest Power Pool, Inc.	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		95000
2019	8	08/26/2019 7:00 PM	08/29/2019 1:00 PM	66 Hours, 0 Minutes	Oklahoma Gas & Electric Co	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		103779
2019	9	09/04/2019 2:30 PM	09/06/2019 6:00 PM	51 Hours, 30 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	9	09/05/2019 4:15 AM	09/05/2019 3:17 PM	11 Hours, 2 Minutes	Dominion Energy South Carolina	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		172278
2019	9	09/05/2019 10:00 PM	09/06/2019 12:00 PM	14 Hours, 0 Minutes	North Carolina El Member Corp	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	3	2000
2019	9	09/05/2019 10:36 PM	09/06/2019 4:00 PM	17 Hours, 24 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		116000
2019	9	09/06/2019 8:20 AM	. .	. Hours, . Minutes	Dominion Energy VA	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		77000
2019	9	09/10/2019 9:22 PM	09/10/2019 9:23 PM	0 Hours, 1 Minutes	Pacificorp	WECC	Wyoming: Sweetwater County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	885	0
2019	9	09/11/2019 10:35 PM	09/11/2019 11:59 PM	1 Hours, 24 Minutes	Consumers Energy Co	RF	Michigan: Ionia County, Kent County, Barry County, Montcalm County, Allegan County, Ottawa County, Newaygo County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		54000
2019	9	09/19/2019 5:55 AM	09/19/2019 2:30 PM	8 Hours, 35 Minutes	Tucson Electric Power	WECC	Arizona: Pima 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, 2019

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
2019	9	09/25/2019 3:47 AM	09/25/2019 3:40 PM	11 Hours, 53 Minutes	Pacific Gas & Electric Co	WECC	California: Napa County, Nevada County, Placer County, Plumas County, Sonoma County, Butte County, Yuba County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	25	69524
2019	9	09/29/2019 7:38 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Alameda County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Distribution Interruption		50072
2019	10	10/04/2019 5:15 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
2019	10	10/06/2019 5:15 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
2019	10	10/06/2019 2:50 PM	10/06/2019 3:00 PM	0 Hours, 10 Minutes	American Electric Power - Texas	TRE	Texas: Hidalgo County, Cameron County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		
2019	10	10/09/2019 12:27 AM	. .	. 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/Transmission Interruption	2400	737808
2019	10	10/12/2019 3:00 PM	10/12/2019 4:21 PM	1 Hours, 21 Minutes	American Electric Power - Texas	TRE	Texas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/15/2019 3:19 AM	10/15/2019 6:38 AM	3 Hours, 19 Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/17/2019 12:45 AM	10/19/2019 9:30 AM	56 Hours, 45 Minutes	ISO New England	NPCC	Connecticut: Rhode Island: Massachusetts: Vermont: New Hampshire: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		101683
2019	10	10/19/2019 5:57 AM	10/19/2019 1:58 PM	8 Hours, 1 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	South Dakota: Codington County; Nebraska: Scotts Bluff County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/20/2019 10:15 PM	10/25/2019 2:00 AM	99 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Cass County, Cameron County, Collin County, Dallas County, Ellis County, Erath County, Hunt County, Kaufman County, Lamar County, Panola County, Rains County, Rockwall County, Rusk County, Tarrant County, Van Zandt County, Wood County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		400000
2019	10	10/23/2019 2:36 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/Transmission Interruption		50000
2019	10	10/24/2019 5:15 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
2019	10	10/24/2019 5:02 PM	10/24/2019 5:09 PM	0 Hours, 7 Minutes	FirstEnergy Corp	RF	Ohio: Lorain County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/26/2019 5:15 AM	10/26/2019 5:31 PM	12 Hours, 16 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		82124
2019	10	10/26/2019 6:00 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		70000
2019	10	10/26/2019 6:20 PM	10/31/2019 1:27 AM	103 Hours, 7 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	3190	972000
2019	10	10/30/2019 6:32 AM	11/01/2019 1:29 PM	54 Hours, 57 Minutes	Southern California Edison Co	WECC	California: Los Angeles County, Orange County, Riverside County, San Bernardino County, Ventura County, Kern County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	285	114402
2019	10	10/31/2019 10:00 PM	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		53943
2019	11	11/01/2019 1:00 AM	11/03/2019 1:00 PM	60 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		8000

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	11	11/01/2019 1:15 AM	11/02/2019 9:30 PM	44 Hours, 15 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: Rhode Island: New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		80066
2019	11	11/01/2019 2:41 AM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York: Broome County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		66325
2019	11	11/03/2019 10:17 PM	11/04/2019 11:10 AM	12 Hours, 53 Minutes	Northern States Power Co	MRO	Minnesota: Sherburne County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	11	11/05/2019 8:56 AM	11/05/2019 11:51 AM	2 Hours, 55 Minutes	JEA	FRCC	Florida: Duval County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	1500	
2019	11	11/08/2019 5:50 AM	11/08/2019 6:10 AM	0 Hours, 20 Minutes	Pacificorp	WECC	Utah: California: Oregon: Wyoming:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-System Operations	72	
2019	11	11/20/2019 9:49 AM	11/20/2019 3:20 PM	5 Hours, 31 Minutes	Pacific Gas & Electric Co	WECC	California: Colusa County, Lake County, Mendocino County, Napa County, Solano County, Sonoma County, Yolo County, Shasta County, Tehama County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	178	54000
2019	11	11/26/2019 6:07 PM	11/27/2019 12:27 PM	18 Hours, 20 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	300	93000
2019	11	11/27/2019 12:00 PM	11/30/2019 2:00 AM	62 Hours, 0 Minutes	Detroit Edison Co	RF	Michigan: Tuscola County, Sanilac County, Huron County, St. Clair County, Macomb County, Oakland County, Wayne County, Livingston County, Washtenaw County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	30	107000
2019	12	12/11/2019 1:27 PM	12/11/2019 1:51 PM	0 Hours, 24 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	North Dakota: Burleigh County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	18	1
2019	12	12/16/2019 11:55 PM	12/17/2019 1:47 AM	1 Hours, 52 Minutes	American Electric Power - Texas	TRE	Texas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	12	12/31/2019 11:03 AM	01/01/2020 10:59 AM	23 Hours, 56 Minutes	American Electric Power - Texas	TRE	Texas: Nueces County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Transmission Interruption	25	0

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 Energy Production, Conversion & Delivery (EPCD), 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 approximately 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 approximately a 95 percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information 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 sample 21,24. 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:

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

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 November 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 January 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 combinedcycle)
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 bypipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermalapplications)
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 (see Table 1):

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 U.S. Environmental Protection Agency (USEPA). For data years 2001 through 2009, the MSW composition was based on the USEPA annual publication, *Municipal Solid Waste in the United States: Facts and Figures*. The compositions developed for the 2009 data year were carried forward for the 2010 through 2018 data years. The most updated composition and categorization of MSW (for the 2019 data year) were also derived from a USEPA publication: *Advancing Sustainable Materials Management: Facts and Figures Report: 2015 Data Tables*. The updated composition values were applied in the October EPM 2019 on the preliminary 2019 values and will be applied going forward in future data years until EIA revises the MSW composition ratios again. The Btu contents of the components of MSW were obtained from various sources.

The numbers in Tables 1 and 2 illustrate two interrelated trends in the composition of the MSW stream. First, the heat content (per unit weight) of the waste stream has been steadily increasing

over time due to higher concentrations of non-biogenic materials. Second, the shares of energy contributed to the waste stream by biogenic and non-biogenic components have been changing over time with the percentage of biogenic materials falling and the share of non-biogenic materials rising.

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 was attributed 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	…	2018	2019
Biogenic	57	56	55	55	56	57	55	54	51	51	51	45
Non-biogenic	43	44	45	45	44	43	46	46	49	49	49	55

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	…	2018	2019
Biogenic	77	77	76	76	75	67	65	65	64	64	64	61
Non-biogenic	23	23	24	24	25	34	35	35	36	36	36	39

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:

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

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

$y_{i_{2015,m}}$ is the ith 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_{2013}

β_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 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, U.S. census region and U.S. 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

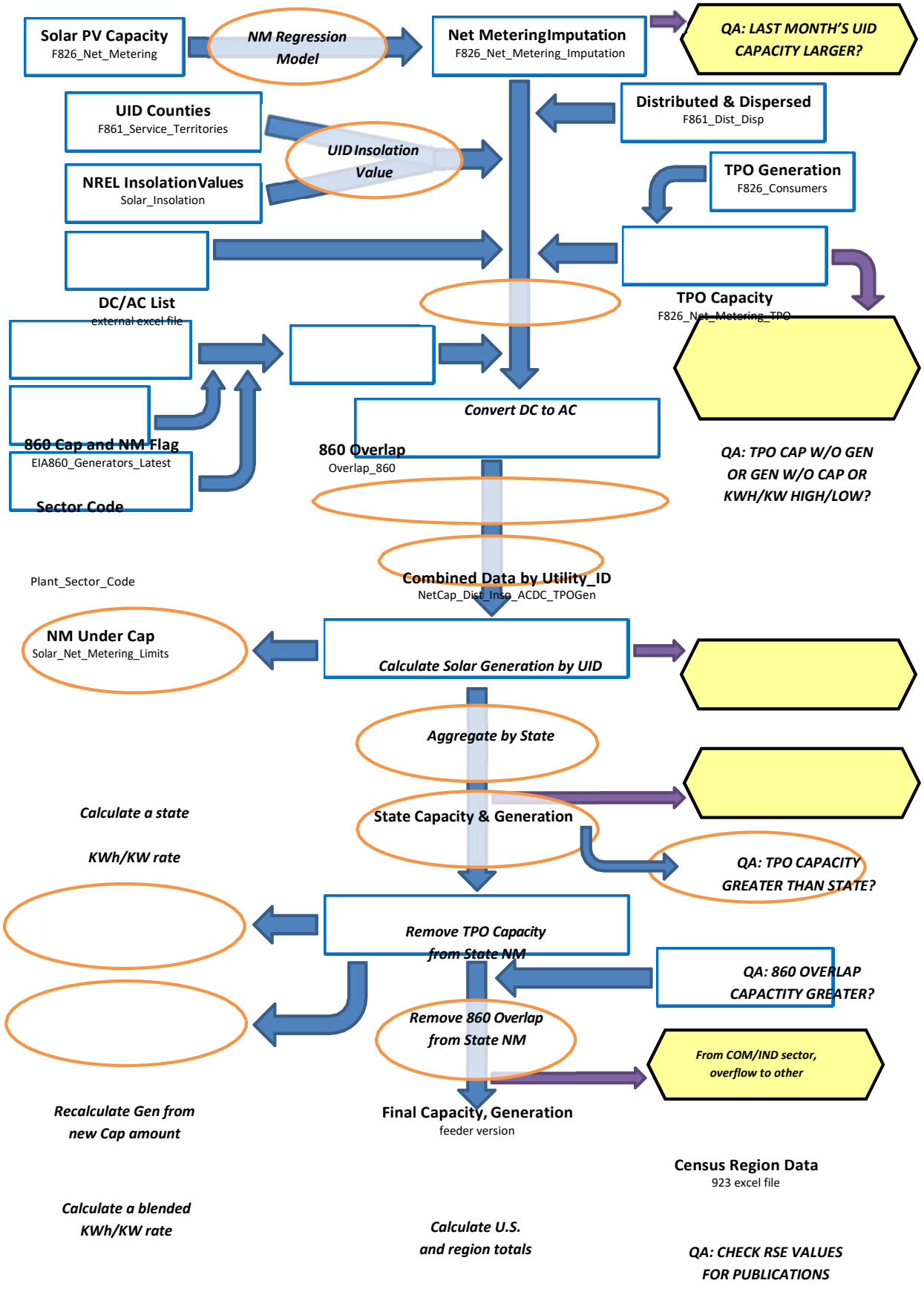
TMY3 (1991-2005) Weather Stations by MSA

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, October 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, May 2020

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	26.07	5.81	--	1.03
Connecticut	--	5.80	--	1.03
Maine	24.80	6.25	--	1.03
Massachusetts	--	5.80	--	1.03
New Hampshire	26.30	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	14.64	5.85	--	1.03
New Jersey	25.38	5.72	--	1.03
New York	--	5.77	--	1.03
Pennsylvania	13.09	5.89	--	1.04
East North Central	20.27	5.80	26.99	1.05
Illinois	17.59	5.80	--	1.01
Indiana	22.25	5.75	--	1.06
Michigan	19.26	5.90	26.90	1.05
Ohio	24.91	5.78	--	1.06
Wisconsin	17.98	5.88	27.50	1.03
West North Central	16.43	5.78	--	1.07
Iowa	17.53	5.76	--	1.08
Kansas	17.00	5.77	--	1.02
Minnesota	17.62	5.86	--	1.08
Missouri	17.66	5.78	--	1.03
Nebraska	17.16	--	--	1.07
North Dakota	13.24	5.71	--	1.00
South Dakota	16.66	--	--	--
South Atlantic	24.04	5.96	28.23	1.03
Delaware	--	--	--	1.04
District of Columbia	--	--	--	--
Florida	23.45	5.83	28.23	1.03
Georgia	19.84	5.84	--	1.03
Maryland	24.31	6.16	--	1.04
North Carolina	24.98	5.80	--	1.03
South Carolina	24.76	5.95	--	1.03
Virginia	19.45	5.93	--	1.04
West Virginia	25.17	5.80	--	1.05
East South Central	20.06	5.79	--	1.02
Alabama	18.38	5.60	--	1.02
Kentucky	23.03	5.82	--	1.03
Mississippi	11.59	--	--	1.03
Tennessee	23.19	5.76	--	1.00
West South Central	16.07	5.95	28.55	1.02
Arkansas	17.77	5.88	--	1.03
Louisiana	16.70	5.90	28.55	1.03
Oklahoma	17.16	6.00	--	1.03
Texas	15.71	5.87	--	1.02
Mountain	18.99	5.78	--	1.05
Arizona	18.10	5.66	--	1.04
Colorado	18.61	--	--	1.10
Idaho	--	--	--	1.00
Montana	16.66	5.92	--	1.04
Nevada	21.07	5.70	--	1.04
New Mexico	18.74	5.66	--	1.04
Utah	21.86	5.86	--	1.04
Wyoming	17.54	5.87	--	1.05
Pacific Contiguous	18.20	--	--	1.03
California	22.87	--	--	1.03
Oregon	--	--	--	1.04
Washington	16.83	--	--	1.09
Pacific Noncontiguous	17.84	6.01	--	1.00
Alaska	14.36	5.60	--	1.00
Hawaii	19.72	6.01	--	--
U.S. Total	18.57	5.93	28.25	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, 2016 through 2018

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2016**	**2017**	**2018**
Net Generation			
Coal	0.09%	0.17%	0.42%
Petroleum Liquids	3.08%	3.41%	2.56%
Petroleum Coke	1.46%	5.79%	5.97%
Natural Gas	0.30%	1.94%	1.10%
Other Gases	3.76%	11.64%	10.59%
Hydroelectric	0.76%	2.01%	2.37%
Nuclear	0.05%	0.00%	0.00%
Other	0.76%	1.33%	1.67%
Total	**0.08%**	**0.56%**	**0.29%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.11%	0.13%	0.17%
Petroleum Liquids	5.81%	3.39%	5.23%
Petroleum Coke	0.87%	4.95%	10.63%
Natural Gas	2.26%	1.09%	0.79%
Fuel Stocks for Electric Power Sector			
Coal	0.72%	0.18%	0.35%
Petroleum Liquids	5.25%	2.10%	1.07%
Petroleum Coke	0.27%	14.42%	2.29%
Retail Sales			
Residential	0.26%	0.31%	0.34%
Commercial	0.55%	0.28%	0.37%
Industrial	4.31%	4.00%	5.02%
Transportation	0.06%	0.12%	0.95%
Total	**1.40%**	**1.12%**	**1.53%**
Revenue			
Residential	0.28%	0.26%	0.21%
Commercial	1.21%	0.28%	0.49%
Industrial	4.54%	3.52%	4.76%
Transportation	1.53%	0.21%	1.63%
Total	**1.34%**	**0.57%**	**1.04%**
Average Retail Price			
Residential	0.05%	0.21%	0.16%
Commercial	0.65%	0.20%	0.16%
Industrial	0.24%	0.51%	0.38%
Transportation	1.57%	0.20%	0.80%
Total	**0.10%**	**0.53%**	**0.48%**
Receipt of Fossil Fuels			
Coal	1.92%	1.30%	0.33%
Petroleum Liquids	1.16%	3.18%	11.02%
Petroleum Coke	0.01%	0.00%	0.00%
Natural Gas	0.21%	19.49%	8.23%
Cost of Fossil Fuels			
Coal	0.12%	0.83%	0.24%
Petroleum Liquids	0.26%	0.34%	1.04%
Petroleum Coke	0.12%	0.00%	0.00%
Natural Gas	0.12%	0.47%	0.54%

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, 2016 through 2018

	2016			2017			2018		
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	1,240,108	1,239,149	-0.08%	1,207,901	1,205,835	-0.17%	1,146,393	1,149,487	0.27%
Petroleum Liquids	12,675	13,008	2.63%	12,583	12,414	-1.34%	15,742	16,245	3.19%
Petroleum Coke	11,232	11,197	-0.31%	8,508	8,976	5.50%	8,830	8,981	1.71%
Natural Gas	1,380,295	1,378,307	-0.14%	1,272,864	1,296,442	1.85%	1,468,013	1,469,133	0.08%
Other Gases	13,000	12,807	-1.48%	14,159	12,469	-11.94%	12,191	13,463	10.43%
Hydroelectric	259,143	261,126	0.77%	293,550	293,838	0.10%	285,819	286,619	0.28%
Nuclear	805,327	805,694	0.05%	804,950	804,950	0.00%	807,078	807,084	0.00%
Other	357,299	355,387	-0.54%	400,289	399,346	-0.24%	433,744	427,265	-1.49%
Total	**4,079,079**	**4,076,675**	**-0.06%**	**4,014,804**	**4,034,271**	**0.48%**	**4,177,810**	**4,178,277**	**0.01%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	678,005	677,371	-0.09%	663,479	663,911	0.07%	635,833	636,213	0.06%
Petroleum Liquids (1,000 barrels)	21,225	22,405	5.56%	21,935	21,696	-1.09%	27,245	28,614	5.02%
Petroleum Coke (1,000 tons)	4,275	4,253	-0.52%	3,349	3,490	4.21%	3,311	3,623	9.40%
Natural Gas (1,000 Mcf)	10,400,189	10,170,110	-2.21%	9,440,777	9,508,062	0.71%	10,855,155	10,833,043	-0.20%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	163,946	162,009	-1.18%	137,155	137,687	0.39%	102,786	102,793	0.01%
Petroleum Liquids (1,000 barrels)	30,880	30,593	-0.93%	28,723	28,089	-2.21%	25,082	25,977	3.57%
Petroleum Coke (1,000 tons)	872	845	-3.10%	1,113	864	-22.42%	541	539	-0.27%
Retail Sales (Million kWh)									
Residential	1,407,394	1,411,058	0.26%	1,378,819	1,378,648	-0.01%	1,464,373	1,469,093	0.32%
Commercial	1,359,617	1,367,191	0.56%	1,349,208	1,352,888	0.27%	1,376,741	1,381,755	0.36%
Industrial	936,269	976,715	4.32%	946,443	984,298	4.00%	953,076	1,000,673	4.99%
Transportation	7,499	7,497	-0.03%	7,524	7,523	-0.02%	7,738	7,665	-0.94%
Total	**3,710,779**	**3,762,462**	**1.39%**	**3,681,995**	**3,723,356**	**1.12%**	**3,801,928**	**3,859,185**	**1.51%**
Revenue (Million Dollars)									
Residential	176,585	177,077	0.28%	177,860	177,661	-0.11%	188,742	189,033	0.15%
Commercial	140,937	142,643	1.21%	144,108	144,242	0.09%	146,696	147,425	0.50%
Industrial	63,201	66,068	4.54%	65,394	67,691	3.51%	66,090	69,218	4.73%
Transportation	711	722	1.53%	727	728	0.15%	756	744	-1.65%
Total	**381,435**	**386,509**	**1.33%**	**388,089**	**390,322**	**0.58%**	**402,283**	**406,420**	**1.03%**
Average Retail Price (Cents/kWh)									
Residential	12.55	12.55	0.02%	12.90	12.89	-0.10%	12.89	12.87	-0.17%
Commercial	10.37	10.43	0.65%	10.68	10.66	-0.18%	10.66	10.67	0.13%
Industrial	6.75	6.76	0.21%	6.91	6.88	-0.47%	6.93	6.92	-0.25%
Transportation	9.48	9.63	1.55%	9.67	9.68	0.17%	9.77	9.70	-0.71%
Total	**10.28**	**10.27**	**-0.06%**	**10.54**	**10.48**	**-0.54%**	**10.58**	**10.53**	**-0.47%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	638,564	650,770	1.91%	634,118	642,364	1.30%	594,683	596,215	0.26%
Petroleum Liquids (1,000 barrels)	16,610	16,807	1.18%	15,619	16,127	3.25%	19,717	22,290	13.05%
Petroleum Coke (1,000 tons)	4,166	4,166	0.01%	3,309	3,309	0.00%	3,010	3,010	0.00%
Natural Gas (1,000 Mcf)	10,258,688	10,271,180	0.12%	8,050,520	9,628,733	19.60%	10,039,232	10,885,764	8.43%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.12	2.11	-0.15%	2.08	2.06	-0.87%	2.06	2.06	-0.22%
Petroleum Liquids (1,000 barrels)	9.36	9.39	0.28%	11.82	11.86	0.36%	14.24	14.40	1.16%
Petroleum Coke (1,000 tons)	1.65	1.65	0.15%	2.13	2.13	0.00%	2.54	2.54	0.00%
Natural Gas (1,000 Mcf)	2.88	2.87	-0.06%	3.39	3.37	-0.55%	3.55	3.55	0.03%

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 2018 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.