Independent Statistics & Analysis
U.S. Energy Information Administration

Electric Power Monthly
with Data for August 2020

Table B.1, Major Disturbances and Unusual Occurrences, Year-to-Date 2020, was not updated with August 2020 data as August data were not available at the time of publication.

October 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 August														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	91,165	94,040	-3.1%	71,210	72,032	19,517	21,485	15	17	423	506	0	0
Petroleum Liquids	Utility Scale Facilities	926	1,054	-12.2%	709	809	184	200	10	12	23	33	0	0
Petroleum Coke	Utility Scale Facilities	809	684	18.2%	626	501	124	134	0	0	59	50	0	0
Natural Gas	Utility Scale Facilities	174,130	174,955	-0.5%	86,115	87,732	78,867	77,396	790	852	8,357	8,976	0	0
Other Gas	Utility Scale Facilities	1,002	1,147	-12.7%	0	16	303	361	0	0	699	770	0	0
Nuclear	Utility Scale Facilities	68,982	71,911	-4.1%	37,544	39,218	31,438	32,693	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	24,228	22,579	7.3%	22,279	20,913	1,852	1,592	NM	15	80	59	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	38,259	34,395	11.2%	4,953	3,745	30,756	27,921	296	300	2,253	2,429	0	0
... Wind	Utility Scale Facilities	22,571	19,951	13.1%	3,498	2,597	19,001	17,339	12	9	59	5	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	9,370	7,877	19.0%	974	640	8,316	7,163	68	64	12	9	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,302	3,539	-6.7%	295	329	864	843	14	9	2,130	2,357	0	0
... Other Biomass	Utility Scale Facilities	1,589	1,636	-2.8%	106	105	1,260	1,288	172	185	51	57	0	0
... Geothermal	Utility Scale Facilities	1,426	1,393	2.4%	80	74	1,316	1,288	30	31	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-784	-579	35.3%	-675	-470	-109	-109	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,096	1,211	-9.5%	42	66	612	638	90	94	352	413	0	0
All Energy Sources	Utility Scale Facilities	399,812	401,397	-0.4%	222,803	224,562	163,544	162,310	1,219	1,290	12,246	13,236	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	4,240	3,611	17.4%	0	0	0	0	1,330	1,116	360	311	2,550	2,184
Estimated Total Solar Photovoltaic	All Facilities	13,254	11,075	19.7%	970	636	7,964	6,754	1,398	1,181	373	320	2,550	2,184
Estimated Total Solar	All Facilities	13,610	11,488	18.5%	974	640	8,316	7,163	1,398	1,181	373	320	2,550	2,184
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	50,430	52,348	-3.7%	38,888	39,741	11,398	12,412	4	5	140	190	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,674	1,868	-10.4%	1,316	1,473	311	340	24	21	23	34	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	305	276	10.3%	245	203	44	58	0	0	16	15	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,304,306	1,305,852	-0.1%	665,469	676,156	580,958	568,683	4,980	5,493	52,899	55,519	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	855	974	-12.2%	171	190	56	88	33	32	594	664	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	140	124	12.7%	3	5	15	11	33	23	88	84	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	79	69	13.7%	4	0	8	8	0	0	67	61	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	104,386	104,051	0.3%	4,407	4,098	29,712	28,829	6,633	6,950	63,634	64,175	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	51,285	53,322	-3.8%	39,059	39,931	11,454	12,500	37	37	735	854	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,814	1,992	-9.0%	1,319	1,478	326	352	57	44	111	118	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	383	346	11.0%	249	203	52	66	0	0	83	76	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,408,692	1,409,903	-0.1%	669,876	680,254	610,670	597,512	11,612	12,443	116,533	119,694	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	130,195	111,133	17.2%	104,205	89,054	25,483	21,224	58	89	449	766	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	26,854	26,891	-0.1%	16,021	16,128	9,223	9,080	392	404	1,218	1,280	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	NM	533	NM	NM	372	NM	8	1	1	NM	152	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for August									
	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	August 2020	August 2019	Percentage Change	August 2020	August 2019	Percentage Change	August 2020	August 2019	Percentage Change
Residential	158,821	150,083	5.8%	21,145	19,955	6.0%	13.31	13.30	0.1%
Commercial	122,025	130,776	-6.7%	13,365	14,407	-7.2%	10.95	11.02	-0.6%
Industrial	82,582	91,062	-9.3%	5,855	6,739	-13.1%	7.09	7.40	-4.2%
Transportation	562	653	-14.0%	57	63	-9.1%	10.20	9.65	5.7%
All Sectors	363,990	372,574	-2.3%	40,422	41,164	-1.8%	11.11	11.05	0.5%

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 August														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	505,250	664,343	-23.9%	383,704	499,613	117,783	160,480	149	176	3,614	4,073	0	0
Petroleum Liquids	Utility Scale Facilities	6,543	7,834	-16.5%	5,023	5,613	1,223	1,856	62	78	235	287	0	0
Petroleum Coke	Utility Scale Facilities	5,547	5,242	5.8%	4,276	3,939	886	896	2	4	384	402	0	0
Natural Gas	Utility Scale Facilities	1,108,889	1,055,354	5.1%	554,715	526,286	483,777	457,491	5,488	5,811	64,910	65,767	0	0
Other Gas	Utility Scale Facilities	7,412	8,401	-11.8%	47	122	1,872	2,703	0	0	5,492	5,576	0	0
Nuclear	Utility Scale Facilities	533,198	544,114	-2.0%	290,669	290,828	242,529	253,286	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	208,876	209,346	-0.2%	191,148	190,897	16,857	17,549	150	140	721	760	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	331,903	291,887	13.7%	43,183	35,226	268,332	236,071	2,335	2,316	18,054	18,273	0	0
... Wind	Utility Scale Facilities	218,966	191,400	14.4%	33,112	27,166	185,490	164,053	125	114	239	66	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	63,902	51,209	24.8%	7,085	4,710	56,246	46,014	489	423	83	61	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	25,162	25,778	-2.4%	1,583	1,956	6,270	6,103	58	64	17,252	17,656	0	0
... Other Biomass	Utility Scale Facilities	12,692	12,702	-0.1%	824	835	10,017	9,951	1,371	1,426	480	489	0	0
... Geothermal	Utility Scale Facilities	11,180	10,798	3.5%	579	558	10,309	9,950	292	289	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-3,636	-3,179	14.4%	-2,973	-2,472	-664	-707	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	8,485	8,877	-4.4%	310	321	4,713	4,795	696	724	2,765	3,037	0	0
All Energy Sources	Utility Scale Facilities	2,712,467	2,792,220	-2.9%	1,470,102	1,550,374	1,137,309	1,134,421	8,882	9,249	96,174	98,175	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	29,452	24,646	19.5%	0	0	0	0	9,201	7,786	2,459	2,128	17,792	14,731
Estimated Total Solar Photovoltaic	All Facilities	90,852	73,440	23.7%	7,058	4,687	53,771	43,623	9,690	8,209	2,541	2,190	17,792	14,731
Estimated Total Solar	All Facilities	93,354	75,855	23.1%	7,085	4,710	56,246	46,014	9,690	8,209	2,541	2,190	17,792	14,731
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	285,170	370,630	-23.1%	214,344	276,717	69,552	92,386	44	51	1,230	1,476	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	12,053	14,016	-14.0%	9,506	10,452	2,151	3,108	153	155	243	301	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,133	2,084	2.4%	1,724	1,582	302	381	1	1	107	120	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	8,166,867	7,741,391	5.5%	4,235,690	4,014,751	3,492,531	3,284,027	34,597	37,427	404,050	405,186	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	7,094	8,406	-15.6%	1,075	1,363	468	855	255	298	5,296	5,891	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	979	1,479	-33.8%	31	53	102	154	175	313	671	960	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	472	568	-16.9%	15	10	64	65	3	5	390	487	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	816,917	795,474	2.7%	31,816	28,480	225,137	212,293	52,013	53,072	507,949	501,628	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	292,264	379,036	-22.9%	215,419	278,080	70,020	93,241	298	348	6,527	7,367	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	13,032	15,496	-15.9%	9,537	10,504	2,253	3,262	328	468	914	1,261	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,605	2,652	-1.8%	1,739	1,592	366	446	4	7	496	607	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	8,983,784	8,536,865	5.2%	4,267,506	4,043,231	3,717,669	3,496,321	86,610	90,500	911,999	906,814	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through August									
	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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	Percentage Change
Residential	1,000,183	977,194	2.4%	131,413	127,582	3.0%	13.14	13.06	0.6%
Commercial	854,449	912,671	-6.4%	90,621	97,499	-7.1%	10.61	10.68	-0.7%
Industrial	610,521	672,077	-9.2%	40,708	45,968	-11.4%	6.67	6.84	-2.5%
Transportation	4,366	5,150	-15.2%	428	499	-14.1%	9.81	9.68	1.3%
All Sectors	2,469,519	2,567,092	-3.8%	263,170	271,548	-3.1%	10.66	10.58	0.8%

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	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal (1000 tons)	40,533	51,507	36.34	38.30	210	256	284,071	377,928	36.26	39.44
Petroleum Liquids (1000 barrels)	833	878	59.83	84.70	114	167	8,023	9,562	58.22	83.30
Petroleum Coke (1000 tons)	253	258	51.46	48.66	6	6	1,740	1,340	43.72	61.06
Natural Gas (1000 Mcf)	1,182,235	1,302,573	2.47	2.50	587	821	7,568,983	7,808,550	2.30	3.07

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal (1000 tons)	31,014	38,909	37.45	39.56	152	180	211,926	279,365	37.30	40.82
Petroleum Liquids (1000 barrels)	617	656	60.79	81.53	75	114	5,848	7,173	59.29	82.44
Petroleum Coke (1000 tons)	228	235	52.01	48.82	5	5	1,697	1,315	43.65	61.32
Natural Gas (1000 Mcf)	577,443	657,152	2.65	2.61	301	439	3,742,648	3,923,724	2.53	3.19

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal (1000 tons)	9,060	12,067	31.80	33.72	46	64	67,962	93,851	32.12	34.66
Petroleum Liquids (1000 barrels)	194	203	56.59	95.62	30	45	1,989	2,207	54.33	86.34
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	539,745	576,291	2.23	2.35	240	335	3,309,617	3,353,964	2.03	2.90

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal (1000 tons)	0	0	--	--	0	0	4	5	67.52	65.77
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	739	808	3.17	3.25	3	3	5,354	6,121	3.22	3.39

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal (1000 tons)	460	530	50.36	49.14	12	12	4,179	4,706	50.73	52.49
Petroleum Liquids (1000 barrels)	22	18	61.55	77.49	9	8	186	182	65.52	80.68
Petroleum Coke (1000 tons)	25	23	46.47	46.99	1	1	43	24	46.70	46.99
Natural Gas (1000 Mcf)	64,308	68,322	2.36	2.45	43	44	511,365	524,741	2.10	3.02

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

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	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal	775,036	986,319	1.90	2.00	210	256	5,371,821	7,267,565	1.92	2.05
Petroleum Liquids	5,001	5,217	9.96	14.25	114	167	48,130	57,563	9.70	13.84
Petroleum Coke	7,159	7,308	1.82	1.72	6	6	49,338	38,263	1.54	2.14
Natural Gas	1,219,171	1,348,880	2.39	2.42	587	821	7,816,232	8,073,496	2.23	2.96
Fossil Fuels	2,006,368	2,347,724	2.21	2.26	716	980	13,285,521	15,436,886	2.12	2.56

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal	598,478	746,495	1.94	2.06	152	180	4,042,365	5,392,019	1.96	2.11
Petroleum Liquids	3,727	3,921	10.06	13.65	75	114	35,305	43,405	9.82	13.62
Petroleum Coke	6,485	6,693	1.83	1.72	5	5	48,158	37,605	1.54	2.14
Natural Gas	595,172	680,091	2.57	2.52	301	439	3,861,811	4,055,496	2.45	3.09
Fossil Fuels	1,203,862	1,437,200	2.28	2.31	395	548	7,987,639	9,528,526	2.23	2.58

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal	167,020	228,948	1.72	1.78	46	64	1,243,568	1,778,032	1.75	1.83
Petroleum Liquids	1,136	1,184	9.65	16.40	30	45	11,681	13,040	9.25	14.61
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	557,121	597,443	2.16	2.27	240	335	3,422,690	3,471,135	1.96	2.80
Fossil Fuels	725,278	827,574	2.05	2.13	273	382	4,677,939	5,262,208	1.92	2.46

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal	0	0	--	--	0	0	84	119	2.96	2.90
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	775	838	3.03	3.13	3	3	5,580	6,341	3.09	3.28
Fossil Fuels	775	838	3.03	3.13	3	3	5,664	6,459	3.09	3.27

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
Coal	9,539	10,876	2.43	2.39	12	12	85,803	97,395	2.47	2.54
Petroleum Liquids	138	112	9.83	12.56	9	8	1,144	1,117	10.65	13.14
Petroleum Coke	674	615	1.72	1.75	1	1	1,180	658	1.72	1.75
Natural Gas	66,103	70,509	2.30	2.37	43	44	526,150	540,524	2.04	2.93
Fossil Fuels	76,454	82,112	2.32	2.39	45	47	614,277	639,693	2.12	2.89

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-August 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	964,957	11,619	6,819	1,585,717	12,591	809,409	287,874	71,937	367,886	-5,261	13,334	4,126,882	34,957	103,676	106,894
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	100,905	1,420	800	121,582	1,025	73,701	24,798	3,580	30,776	-323	1,194	359,457	1,903	5,373	5,483
February	79,929	822	692	112,135	948	64,715	22,881	3,836	28,379	-389	1,003	314,951	2,059	5,763	5,895
March	78,352	827	574	115,806	1,086	65,080	26,334	5,899	31,941	-409	1,080	326,568	2,914	8,553	8,813
April	59,922	788	401	104,053	948	60,581	27,820	6,752	34,425	-103	1,015	296,602	3,245	9,672	9,997
May	71,885	947	737	117,053	1,054	67,124	31,982	7,162	31,651	-368	1,117	330,343	3,549	10,375	10,711
June	78,540	966	563	137,828	1,009	68,805	28,078	7,971	28,453	-385	1,101	352,928	3,604	11,136	11,575
July	100,771	1,009	791	171,942	1,185	72,199	24,875	8,133	28,534	-622	1,157	409,973	3,760	11,493	11,893
August	94,040	1,054	684	174,955	1,147	71,911	22,579	7,877	26,518	-579	1,211	401,397	3,611	11,075	11,488
Sept	85,707	931	581	149,688	1,112	66,064	18,526	6,817	30,556	-671	1,142	360,452	3,205	9,728	10,022
October	66,777	951	200	130,941	924	62,033	18,306	6,093	33,298	-373	1,100	320,250	2,833	8,628	8,926
November	75,549	907	333	117,904	1,047	64,125	20,218	4,364	30,688	-509	1,082	315,708	2,228	6,450	6,592
December	72,581	996	463	131,830	1,107	73,074	21,478	3,453	32,667	-529	1,133	338,253	2,047	5,430	5,500
Year 2020															
January	65,100	964	662	133,154	1,104	74,170	25,425	4,690	34,431	-377	1,085	340,408	2,314	6,888	7,004
February	56,101	766	500	125,554	1,132	65,950	26,393	5,717	35,025	-247	961	317,853	2,627	8,150	8,344
March	50,643	715	684	123,654	1,009	63,997	23,423	6,434	35,599	-353	1,083	306,887	3,435	9,659	9,869
April	40,593	636	591	107,929	747	59,170	21,957	8,048	35,350	-325	1,067	275,763	3,829	11,543	11,878
May	46,529	707	587	115,855	808	64,338	30,559	9,734	34,328	-367	1,088	304,167	4,277	13,565	14,011
June	65,274	865	808	143,180	756	67,205	29,138	9,529	35,694	-499	1,016	352,967	4,288	13,418	13,817
July	89,845	963	907	185,433	854	69,385	27,753	10,379	28,686	-686	1,089	414,610	4,442	14,376	14,821
August	91,165	926	809	174,130	1,002	68,982	24,228	9,370	28,889	-784	1,096	399,812	4,240	13,254	13,610
Year to Date															
2018	772,543	12,204	6,169	986,235	9,177	547,351	209,100	46,042	239,032	-3,944	8,670	2,832,579	20,793	64,208	66,835
2019	664,343	7,834	5,242	1,055,354	8,401	544,114	209,346	51,209	240,677	-3,179	8,877	2,792,220	24,646	73,440	75,855
2020	505,250	6,543	5,547	1,108,889	7,412	533,198	208,876	63,902	268,001	-3,636	8,485	2,712,467	29,452	90,852	93,354
Rolling 12 Months Ending in August															
2019	1,041,288	11,876	8,053	1,538,252	12,687	803,847	292,770	68,992	352,112	-5,139	13,180	4,137,918	33,392	99,004	102,384
2020	805,864	10,328	7,124	1,639,252	11,602	798,493	287,404	84,630	395,209	-5,718	12,942	4,047,129	39,763	121,088	124,394

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 2019 and prior years are final. Values for 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-August 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	294,906	68,719	3,218	38,543	10,468	6,093	2,402	15,473	287,874	727,697	34,957	103,676	106,894
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	24,248	3,470	111	3,465	930	528	214	1,390	24,798	59,154	1,903	5,373	5,483
February	22,547	3,704	131	3,042	843	464	191	1,293	22,881	55,095	2,059	5,763	5,895
March	25,677	5,639	260	3,217	908	490	227	1,422	26,334	64,174	2,914	8,553	8,813
April	28,854	6,427	325	2,807	833	468	208	1,254	27,820	68,997	3,245	9,672	9,997
May	25,695	6,826	336	3,051	859	526	179	1,342	31,982	70,795	3,549	10,375	10,711
June	22,385	7,532	439	3,159	868	523	191	1,328	28,078	64,502	3,604	11,136	11,575
July	22,043	7,733	400	3,498	884	538	194	1,375	24,875	61,542	3,760	11,493	11,893
August	19,951	7,464	413	3,539	886	546	204	1,393	22,579	56,974	3,611	11,075	11,488
Sept	24,448	6,523	294	3,211	838	512	179	1,368	18,526	55,899	3,205	9,728	10,022
October	27,521	5,796	298	3,063	868	500	206	1,141	18,306	57,698	2,833	8,628	8,926
November	25,042	4,223	141	3,137	844	484	198	984	20,218	55,269	2,228	6,450	6,592
December	26,496	3,383	70	3,355	908	513	213	1,183	21,478	57,598	2,047	5,430	5,500
Year 2020													
January	28,149	4,575	116	3,345	935	521	216	1,265	25,425	64,546	2,314	6,888	7,004
February	29,092	5,523	194	3,145	855	464	196	1,274	26,393	67,135	2,627	8,150	8,344
March	29,204	6,223	211	3,196	940	535	207	1,517	23,423	65,456	3,435	9,659	9,869
April	29,336	7,714	335	2,970	901	504	189	1,450	21,957	65,355	3,829	11,543	11,878
May	28,163	9,288	446	3,099	913	518	186	1,449	30,559	74,622	4,277	13,565	14,011
June	29,872	9,130	400	2,993	816	475	168	1,369	29,138	74,361	4,288	13,418	13,817
July	22,579	9,934	445	3,112	863	528	174	1,431	27,753	66,818	4,442	14,376	14,821
August	22,571	9,013	356	3,302	878	537	174	1,426	24,228	62,486	4,240	13,254	13,610
Year to Date													
2018	186,632	43,415	2,627	27,772	7,411	4,780	1,848	10,589	209,100	494,175	20,793	64,208	66,835
2019	191,400	48,794	2,415	25,778	7,010	4,085	1,607	10,798	209,346	501,233	24,646	73,440	75,855
2020	218,966	61,400	2,502	25,162	7,101	4,081	1,511	11,180	208,876	540,779	29,452	90,852	93,354
Rolling 12 Months Ending in August													
2019	277,436	65,613	3,379	38,942	10,635	6,440	2,483	16,176	292,770	713,874	33,392	99,004	102,384
2020	322,472	81,325	3,306	37,928	10,559	6,089	2,306	15,856	287,404	767,243	39,763	121,088	124,394

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 2019 and prior years are final. Values for 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-August 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	722,885	8,410	5,112	784,929	154	430,672	262,364	6,785	47,427	-4,261	551	2,265,028
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	74,950	892	634	59,214	12	39,806	22,391	379	3,918	-247	42	201,990
February	59,507	587	564	55,546	22	34,243	20,610	403	3,357	-310	30	174,559
March	56,482	627	464	57,136	31	34,213	23,839	598	4,253	-309	31	177,366
April	44,228	552	276	51,610	0	32,063	25,266	667	4,747	-26	35	159,417
May	55,130	696	552	59,597	0	35,416	29,266	689	3,975	-305	41	185,055
June	60,199	732	398	70,452	23	36,847	25,767	662	3,588	-299	39	198,408
July	77,085	719	551	84,998	18	39,023	22,846	673	3,572	-505	36	229,016
August	72,032	809	501	87,732	16	39,218	20,913	640	3,106	-470	66	224,562
Sept	64,955	702	460	74,902	10	34,770	17,045	641	4,113	-583	59	197,075
October	49,301	710	146	64,530	0	32,289	16,625	574	4,498	-316	58	168,416
November	55,455	646	251	56,502	19	32,923	18,467	464	4,108	-424	56	168,466
December	53,561	739	315	62,709	2	39,861	19,330	395	4,193	-465	57	180,697
Year 2020												
January	48,387	800	493	65,167	0	40,721	23,120	554	4,395	-325	41	183,354
February	41,641	616	366	62,392	8	36,079	24,127	632	4,995	-182	40	170,714
March	38,332	516	521	62,259	19	35,133	21,071	806	4,860	-252	40	163,305
April	29,872	471	455	54,789	6	32,827	19,661	918	4,895	-252	34	143,676
May	34,953	533	436	60,009	8	34,392	28,113	1,103	4,557	-273	41	163,872
June	49,744	658	647	72,147	1	36,388	27,053	1,022	4,826	-420	32	192,098
July	69,565	720	732	91,836	6	37,583	25,724	1,076	3,591	-595	40	230,279
August	71,210	709	626	86,115	0	37,544	22,279	974	3,979	-675	42	222,803
Year to Date												
2018	581,139	7,216	4,721	489,171	148	287,244	192,393	3,447	29,712	-3,199	372	1,592,364
2019	499,613	5,613	3,939	526,286	122	290,828	190,897	4,710	30,516	-2,472	321	1,550,374
2020	383,704	5,023	4,276	554,715	47	290,669	191,148	7,085	36,098	-2,973	310	1,470,102
Rolling 12 Months Ending in August												
2019	781,978	8,505	6,035	757,320	125	427,835	265,840	6,180	44,987	-4,058	511	2,295,259
2020	606,976	7,820	5,449	813,358	79	430,512	262,615	9,159	53,010	-4,762	539	2,184,755

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 2019 and prior years are final. Values for 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-August 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	235,847	2,669	1,125	692,113	3,883	378,738	24,288	64,480	290,343	-1,000	7,141	1,699,628
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	25,344	462	125	52,923	348	33,895	2,266	3,167	24,202	-76	625	143,281
February	19,875	185	91	48,397	329	30,472	2,162	3,395	22,629	-79	544	128,000
March	21,337	155	71	49,981	352	30,867	2,368	5,243	25,079	-100	576	135,930
April	15,198	189	79	44,245	329	28,518	2,429	6,023	27,352	-78	546	124,830
May	16,258	215	145	48,842	325	31,708	2,591	6,406	25,313	-63	623	132,362
June	17,844	196	117	58,469	306	31,958	2,198	7,236	22,393	-86	610	141,241
July	23,140	254	135	77,238	354	33,176	1,942	7,380	22,330	-118	634	166,466
August	21,485	200	134	77,396	361	32,693	1,592	7,163	20,758	-109	638	162,310
Sept	20,261	186	77	65,571	332	31,294	1,416	6,112	24,002	-88	590	149,753
October	17,011	200	9	57,397	189	29,744	1,607	5,466	26,333	-56	582	138,481
November	19,591	215	41	52,175	307	31,202	1,672	3,859	24,096	-84	572	133,645
December	18,504	213	102	59,480	352	33,212	2,044	3,028	25,856	-64	601	143,328
Year 2020												
January	16,160	121	112	58,124	354	33,448	2,195	4,093	27,434	-52	609	142,600
February	13,935	112	93	54,253	361	29,871	2,155	5,035	27,591	-65	545	133,887
March	11,811	164	114	52,497	269	28,864	2,240	5,568	28,179	-101	622	130,227
April	10,287	133	104	45,256	144	26,343	2,186	7,057	28,013	-73	594	120,044
May	11,141	138	110	47,824	153	29,946	2,329	8,543	27,322	-94	585	127,996
June	15,116	168	110	62,490	132	30,817	1,976	8,423	28,464	-79	540	148,156
July	19,817	203	117	84,467	156	31,802	1,925	9,211	22,642	-91	606	170,854
August	19,517	184	124	78,867	303	31,438	1,852	8,316	22,440	-109	612	163,544
Year to Date												
2018	186,380	4,538	999	428,811	2,691	260,107	15,837	42,175	188,479	-745	4,481	1,133,753
2019	160,480	1,856	896	457,491	2,703	253,286	17,549	46,014	190,057	-707	4,795	1,134,421
2020	117,783	1,223	886	483,777	1,872	242,529	16,857	56,246	212,085	-664	4,713	1,137,309
Rolling 12 Months Ending in August												
2019	252,769	2,805	1,414	674,296	3,947	376,012	25,524	62,176	276,733	-1,081	6,991	1,681,585
2020	193,150	2,036	1,115	718,399	3,052	367,981	23,596	74,712	312,372	-957	7,059	1,702,516

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 2019 and prior years are final. Values for 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-August 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	268	116	5	8,610	0	0	188	587	2,840	0	1,076	13,689	11,002	11,588	11,588
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	29	19	1	706	0	0	16	30	263	0	95	1,160	629	659	659
February	27	9	1	654	0	0	15	34	236	0	81	1,057	676	710	710
March	33	8	1	711	0	0	19	50	262	0	90	1,173	933	983	983
April	22	7	1	646	0	0	19	54	216	0	88	1,053	1,032	1,086	1,086
May	18	7	0	663	0	0	22	58	213	0	91	1,072	1,110	1,168	1,168
June	13	6	0	711	0	0	18	63	229	0	93	1,133	1,118	1,181	1,181
July	18	9	0	869	0	0	16	69	240	0	92	1,313	1,171	1,241	1,241
August	17	12	0	852	0	0	15	64	235	0	94	1,290	1,116	1,181	1,181
Sept	21	10	0	731	0	0	12	55	230	0	91	1,150	994	1,049	1,049
October	21	9	0	666	0	0	11	46	235	0	84	1,072	881	927	927
November	23	9	0	667	0	0	12	36	235	0	84	1,066	683	719	719
December	27	10	1	735	0	0	14	26	246	0	93	1,151	657	684	684
Year 2020															
January	22	10	2	748	0	0	NM	37	237	0	91	1,164	736	773	773
February	29	6	1	672	0	0	NM	44	230	0	80	1,080	835	878	878
March	22	6	0	648	0	0	NM	52	246	0	88	1,078	1,091	1,143	1,143
April	13	5	0	550	0	0	15	64	224	0	82	953	1,200	1,264	1,264
May	14	7	0	599	0	0	NM	75	232	0	89	1,039	1,313	1,388	1,388
June	17	7	0	672	0	0	NM	72	220	0	85	1,095	1,319	1,391	1,391
July	17	10	0	809	0	0	NM	78	229	0	92	1,255	1,378	1,456	1,456
August	15	10	0	790	0	0	NM	68	228	0	90	1,219	1,330	1,398	1,398
Year to Date															
2018	209	98	4	5,689	0	0	165	387	1,779	0	682	9,013	6,907	7,293	7,293
2019	176	78	4	5,811	0	0	140	423	1,893	0	724	9,249	7,786	8,209	8,209
2020	149	62	2	5,488	0	0	150	489	1,846	0	696	8,882	9,201	9,690	9,690
Rolling 12 Months Ending in August															
2019	269	112	8	8,541	0	0	202	562	2,803	0	1,052	13,549	10,678	11,240	11,240
2020	241	100	3	8,287	0	0	NM	653	2,792	0	1,048	13,322	12,417	13,069	13,069

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 2019 and prior years are final. Values for 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-August 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	5,957	424	576	100,065	8,554	0	1,033	85	27,276	0	4,567	148,537	3,041	3,127	3,127
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	581	48	40	8,739	664	0	124	4	2,393	0	432	13,025	168	172	172
February	521	40	36	7,538	597	0	94	5	2,156	0	348	11,335	178	182	182
March	500	37	37	7,978	702	0	108	7	2,348	0	384	12,099	254	261	261
April	475	40	45	7,552	619	0	106	8	2,110	0	346	11,301	278	286	286
May	479	30	41	7,951	730	0	104	9	2,150	0	361	11,854	309	317	317
June	484	31	47	8,196	680	0	95	10	2,244	0	360	12,147	311	320	320
July	528	28	105	8,837	813	0	71	10	2,391	0	394	13,178	321	331	331
August	506	33	50	8,976	770	0	59	9	2,419	0	413	13,236	311	320	320
Sept	470	34	44	8,483	770	0	52	8	2,211	0	402	12,474	281	289	289
October	445	32	44	8,348	735	0	63	7	2,233	0	375	12,281	255	262	262
November	480	36	41	8,561	721	0	67	5	2,249	0	371	12,531	198	204	204
December	489	35	45	8,906	753	0	91	4	2,372	0	382	13,077	179	183	183
Year 2020															
January	530	33	54	9,115	750	0	93	6	2,365	0	344	13,290	193	198	198
February	495	32	41	8,237	763	0	92	7	2,210	0	296	12,172	214	220	220
March	477	29	49	8,250	721	0	96	8	2,313	0	334	12,277	295	302	302
April	422	26	31	7,334	596	0	95	10	2,218	0	357	11,090	318	327	327
May	422	29	41	7,423	647	0	95	13	2,216	0	373	11,259	351	364	364
June	398	32	51	7,871	623	0	86	13	2,184	0	359	11,618	357	370	370
July	447	30	58	8,322	692	0	84	14	2,224	0	350	12,221	372	386	386
August	423	23	59	8,357	699	0	80	12	2,241	0	352	12,246	360	373	373
Year to Date															
2018	4,814	352	445	62,564	6,337	0	705	34	19,062	0	3,135	97,449	1,843	1,876	1,876
2019	4,073	287	402	65,767	5,576	0	760	61	18,212	0	3,037	98,175	2,128	2,190	2,190
2020	3,614	235	384	64,910	5,492	0	721	83	17,971	0	2,765	96,174	2,459	2,541	2,541
Rolling 12 Months Ending in August															
2019	6,271	452	597	98,095	8,616	0	1,204	75	27,589	0	4,626	147,525	2,921	2,996	2,996
2020	5,497	371	558	99,207	8,471	0	994	106	27,035	0	4,296	146,536	3,372	3,478	3,478

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 2019 and prior years are final. Values for 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-August 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	20,914
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	1,107
February	1,205
March	1,727
April	1,935
May	2,130
June	2,175
July	2,268
August	2,184
Sept	1,930
October	1,697
November	1,346
December	1,210
Year 2020	
January	1,385
February	1,579
March	2,050
April	2,312
May	2,612
June	2,613
July	2,691
August	2,550
Year to Date	
2018	12,043
2019	14,731
2020	17,792
Rolling 12 Months Ending in August	
2019	19,793
2020	23,975

See Glossary for definitions. Values for 2019 and prior years are final. Values for 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, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	9,777	9,286	5.3%	200	156	9,198	8,730	121	128	258	272
Connecticut	4,001	3,852	3.9%	5	6	3,903	3,740	39	44	54	62
Maine	861	616	39.7%	NM	0	681	441	10	11	170	164
Massachusetts	2,200	2,031	8.3%	81	37	2,039	1,909	62	61	18	23
New Hampshire	1,632	1,673	-2.5%	NM	53	1,594	1,612	5	5	2	3
Rhode Island	889	989	-10.1%	0	0	869	964	6	6	14	20
Vermont	194	124	55.9%	83	60	111	64	0	0	0	0
Middle Atlantic	42,409	41,497	2.2%	3,614	3,396	38,250	37,463	221	239	324	400
New Jersey	6,639	7,004	-5.2%	16	13	6,498	6,850	64	67	61	73
New York	13,002	12,890	0.9%	3,596	3,380	9,210	9,306	127	136	69	69
Pennsylvania	22,768	21,603	5.4%	2	3	22,542	21,307	30	36	194	257
East North Central	52,424	51,712	1.4%	19,901	19,675	31,449	30,935	157	165	917	937
Illinois	15,663	15,825	-1.0%	563	546	14,830	15,008	36	41	234	230
Indiana	9,039	8,582	5.3%	6,434	5,891	2,207	2,271	25	28	373	391
Michigan	9,839	10,839	-9.2%	6,652	7,550	3,019	3,109	59	60	110	120
Ohio	11,628	10,648	9.2%	1,251	1,173	10,287	9,396	26	26	64	53
Wisconsin	6,256	5,818	7.5%	5,001	4,515	1,108	1,150	12	10	136	144
West North Central	31,782	29,886	6.3%	26,073	24,865	5,384	4,612	64	58	261	351
Iowa	5,240	5,019	4.4%	4,389	4,001	695	789	20	20	136	208
Kansas	5,210	4,406	18.2%	3,633	3,177	1,563	1,225	NM	1	12	3
Minnesota	5,371	5,191	3.5%	4,091	3,980	1,177	1,097	23	18	80	96
Missouri	7,599	7,405	2.6%	7,101	6,870	477	515	18	18	3	2
Nebraska	3,309	3,333	-0.7%	2,664	2,900	628	397	1	1	16	35
North Dakota	3,649	3,628	0.6%	3,123	3,148	511	475	NM	0	15	5
South Dakota	1,404	904	55.3%	1,072	789	332	113	NM	0	0	2
South Atlantic	80,490	79,866	0.8%	66,552	66,050	12,246	12,001	170	187	1,522	1,627
Delaware	760	751	1.2%	8	6	643	619	0	0	110	125
District of Columbia	20	15	36.9%	0	0	NM	1	18	14	0	0
Florida	25,133	24,361	3.2%	23,592	22,811	1,127	1,111	6	5	408	434
Georgia	12,497	12,567	-0.6%	10,106	10,434	1,962	1,667	NM	1	429	466
Maryland	3,308	3,770	-12.2%	286	415	2,927	3,243	90	107	4	4
North Carolina	12,850	13,294	-3.3%	10,942	11,425	1,758	1,696	23	28	127	145
South Carolina	9,491	9,036	5.0%	8,987	8,636	345	254	0	0	158	145
Virginia	10,125	9,969	1.6%	8,006	7,835	1,912	1,889	31	32	177	213
West Virginia	6,305	6,102	3.3%	4,625	4,489	1,571	1,519	0	0	109	94
East South Central	34,752	35,969	-3.4%	29,744	30,999	4,179	4,058	20	21	809	891
Alabama	13,544	13,668	-0.9%	9,383	9,549	3,764	3,682	0	0	397	438
Kentucky	6,734	7,050	-4.5%	6,634	6,982	56	20	0	0	45	48
Mississippi	6,579	7,231	-9.0%	6,097	6,746	313	310	0	0	170	174
Tennessee	7,895	8,020	-1.6%	7,630	7,723	46	46	20	21	198	231
West South Central	73,209	76,524	-4.3%	26,872	28,011	39,872	41,352	102	107	6,363	7,054
Arkansas	6,262	6,501	-3.7%	5,815	5,827	341	538	NM	7	101	129
Louisiana	9,753	10,052	-3.0%	6,651	6,556	553	669	13	17	2,535	2,810
Oklahoma	8,306	8,916	-6.8%	4,716	4,945	3,513	3,895	0	0	77	76
Texas	48,888	51,055	-4.2%	9,689	10,684	35,465	36,250	84	83	3,651	4,039
Mountain	36,526	38,045	-4.0%	28,746	29,924	7,385	7,823	81	84	313	215
Arizona	11,775	12,357	-4.7%	10,019	10,511	1,742	1,832	14	14	0	0
Colorado	5,163	5,370	-3.9%	3,912	4,309	1,239	1,051	6	4	6	6
Idaho	1,659	1,817	-8.7%	1,137	1,260	465	504	6	6	52	46
Montana	2,094	2,777	-24.6%	939	1,079	1,153	1,696	0	0	2	2
Nevada	4,478	4,456	0.5%	3,227	3,242	1,160	1,132	43	44	49	39
New Mexico	3,516	3,619	-2.8%	2,474	2,611	1,031	996	9	12	1	0
Utah	4,040	3,790	6.6%	3,647	3,376	362	366	4	5	27	44
Wyoming	3,800	3,858	-1.5%	3,392	3,535	233	246	0	0	175	77
Pacific Contiguous	37,130	37,215	-0.2%	20,196	20,533	15,248	14,981	230	247	1,456	1,455
California	21,699	21,776	-0.4%	8,090	9,035	12,172	11,300	222	239	1,216	1,202
Oregon	5,543	5,473	1.3%	3,799	3,587	1,682	1,829	6	6	56	51
Washington	9,888	9,966	-0.8%	8,308	7,911	1,394	1,852	2	1	184	202
Pacific Noncontiguous	1,314	1,395	-5.8%	905	952	334	356	52	54	23	33
Alaska	534	489	9.2%	482	441	22	18	NM	20	9	11
Hawaii	780	906	-13.9%	423	511	312	338	31	34	14	22
U.S. Total	399,812	401,397	-0.4%	222,803	224,562	163,544	162,310	1,219	1,290	12,246	13,236

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	66,147	68,392	-3.3%	1,561	1,751	61,758	63,720	842	890	1,986	2,032
Connecticut	28,325	26,497	6.9%	51	70	27,566	25,699	271	293	437	435
Maine	7,187	7,263	-1.0%	NM	3	5,828	5,868	74	91	1,282	1,301
Massachusetts	12,581	15,859	-20.7%	440	304	11,570	14,955	419	421	151	179
New Hampshire	10,981	12,035	-8.8%	350	703	10,577	11,269	37	44	18	20
Rhode Island	5,407	5,100	6.0%	0	0	5,270	4,963	39	39	98	98
Vermont	1,666	1,638	1.7%	718	670	946	965	2	2	0	0
Middle Atlantic	287,484	289,551	-0.7%	24,949	23,883	258,441	261,219	1,590	1,620	2,504	2,829
New Jersey	43,116	47,481	-9.2%	73	84	42,107	46,410	460	476	477	511
New York	89,900	87,878	2.3%	24,805	23,715	63,670	62,721	872	876	553	566
Pennsylvania	154,468	154,192	0.2%	72	84	152,663	152,087	258	269	1,474	1,752
East North Central	368,080	398,826	-7.7%	127,291	148,502	232,325	241,938	1,120	1,190	7,343	7,195
Illinois	116,073	125,303	-7.4%	3,845	3,599	110,248	119,737	237	246	1,744	1,721
Indiana	59,744	69,636	-14.2%	37,942	48,875	18,608	17,700	167	188	3,027	2,873
Michigan	69,752	79,463	-12.2%	43,856	54,329	24,529	23,679	459	503	907	953
Ohio	79,590	82,178	-3.1%	8,341	8,961	70,583	72,570	158	163	508	484
Wisconsin	42,920	42,245	1.6%	33,308	32,739	8,356	8,252	98	89	1,157	1,164
West North Central	228,226	230,212	-0.9%	175,192	185,684	50,218	41,456	417	430	2,399	2,641
Iowa	39,120	41,367	-5.4%	28,924	31,466	8,772	8,237	136	152	1,288	1,512
Kansas	36,084	33,850	6.6%	21,672	22,041	14,294	11,741	11	11	107	58
Minnesota	37,755	39,635	-4.7%	27,065	30,554	9,873	8,158	138	135	678	788
Missouri	49,863	53,588	-7.0%	45,680	49,750	4,038	3,696	118	121	27	21
Nebraska	25,396	24,597	3.2%	19,979	20,223	5,228	4,145	11	11	178	217
North Dakota	28,427	26,956	5.5%	23,123	22,672	5,181	4,244	NM	0	120	40
South Dakota	11,582	10,220	13.3%	8,749	8,978	2,833	1,235	NM	0	0	7
South Atlantic	538,918	551,399	-2.3%	441,377	456,897	83,846	80,631	1,271	1,382	12,424	12,488
Delaware	3,826	3,922	-2.4%	23	28	2,944	3,013	3	4	856	877
District of Columbia	135	114	18.2%	0	0	13	6	122	108	0	0
Florida	169,072	164,562	2.7%	157,814	153,757	7,983	7,402	49	46	3,225	3,357
Georgia	79,047	86,264	-8.4%	62,480	71,819	13,038	11,008	3	5	3,526	3,432
Maryland	24,759	27,175	-8.9%	2,235	3,056	21,831	23,250	661	740	32	130
North Carolina	84,741	88,456	-4.2%	70,511	74,914	12,898	12,190	186	234	1,146	1,118
South Carolina	66,533	68,761	-3.2%	63,060	65,819	2,257	1,857	3	2	1,213	1,082
Virginia	71,685	67,455	6.3%	55,863	52,866	14,003	12,734	244	244	1,574	1,612
West Virginia	39,121	44,689	-12.5%	29,390	34,640	8,879	9,170	0	0	852	880
East South Central	232,824	246,514	-5.6%	199,090	213,433	27,191	26,496	150	139	6,395	6,446
Alabama	92,047	96,124	-4.2%	64,722	69,103	24,161	23,798	0	0	3,164	3,223
Kentucky	43,414	49,064	-11.5%	42,645	48,485	433	247	0	0	336	332
Mississippi	44,831	44,537	0.7%	41,292	41,185	2,248	2,139	0	0	1,291	1,213
Tennessee	52,532	56,790	-7.5%	50,430	54,661	348	312	150	139	1,604	1,677
West South Central	487,582	494,439	-1.4%	161,403	169,289	275,743	272,939	640	675	49,796	51,535
Arkansas	36,003	44,031	-18.2%	32,139	39,279	3,033	3,574	44	36	786	1,142
Louisiana	70,398	67,700	4.0%	46,668	40,698	3,723	5,590	121	107	19,887	21,306
Oklahoma	58,599	57,532	1.9%	28,100	28,983	29,889	28,004	0	0	609	545
Texas	322,583	325,175	-0.8%	54,496	60,329	239,098	235,772	475	532	28,514	28,542
Mountain	240,829	249,430	-3.4%	182,952	193,087	55,051	53,850	674	673	2,152	1,820
Arizona	72,857	77,008	-5.4%	61,223	66,079	11,533	10,826	101	104	0	0
Colorado	36,543	37,413	-2.3%	26,935	29,029	9,522	8,314	37	22	49	48
Idaho	13,629	12,638	7.8%	9,210	8,426	3,994	3,790	45	42	380	379
Montana	16,430	18,732	-12.3%	8,426	7,705	7,982	11,007	0	0	22	20
Nevada	27,568	26,912	2.4%	18,407	18,416	8,560	7,901	381	379	220	216
New Mexico	23,545	23,150	1.7%	14,844	15,802	8,624	7,272	66	73	11	4
Utah	23,170	25,834	-10.3%	20,240	22,809	2,634	2,621	45	54	252	351
Wyoming	27,087	27,744	-2.4%	23,667	24,822	2,202	2,119	0	0	1,219	803
Pacific Contiguous	252,213	252,995	-0.3%	149,430	150,720	90,131	89,559	1,723	1,792	10,929	10,925
California	129,305	137,988	-6.3%	47,513	58,844	71,119	68,306	1,653	1,727	9,020	9,110
Oregon	44,337	42,081	5.4%	31,927	30,060	11,910	11,597	50	47	450	376
Washington	78,571	72,927	7.7%	69,990	61,816	7,102	9,655	20	17	1,459	1,439
Pacific Noncontiguous	10,163	10,461	-2.8%	6,855	7,128	2,606	2,613	455	456	246	264
Alaska	4,137	4,146	-0.2%	3,671	3,733	178	153	212	181	76	79
Hawaii	6,026	6,315	-4.6%	3,184	3,394	2,428	2,460	243	275	170	185
U.S. Total	2,712,467	2,792,220	-2.9%	1,470,102	1,550,374	1,137,309	1,134,421	8,882	9,249	96,174	98,175

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	3	21	-86.1%	0	16	2	4	0	0	NM	1
Connecticut	-2	1	-274.1%	0	0	-2	1	0	0	0	0
Maine	5	4	10.2%	0	0	4	3	0	0	NM	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	16	-100.0%	0	16	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	2,302	3,086	-25.4%	0	0	2,296	3,078	0	0	6	8
New Jersey	88	84	4.9%	0	0	88	84	0	0	0	0
New York	0	36	-100.0%	0	0	0	36	0	0	0	0
Pennsylvania	2,214	2,966	-25.3%	0	0	2,208	2,958	0	0	6	8
East North Central	19,436	19,255	0.9%	11,501	11,305	7,779	7,788	3	6	154	157
Illinois	3,482	4,190	-16.9%	182	307	3,167	3,754	1	1	132	129
Indiana	5,514	4,995	10.4%	5,115	4,559	397	431	2	5	0	0
Michigan	3,043	3,400	-10.5%	3,010	3,358	32	40	0	0	0	2
Ohio	4,679	4,035	16.0%	497	472	4,182	3,563	0	0	0	0
Wisconsin	2,718	2,634	3.2%	2,697	2,609	0	0	0	0	22	26
West North Central	15,994	15,623	2.4%	15,860	15,413	0	0	5	6	129	204
Iowa	2,323	2,314	0.4%	2,226	2,166	0	0	5	5	92	143
Kansas	2,269	1,776	27.8%	2,269	1,776	0	0	0	0	0	0
Minnesota	1,790	1,523	17.5%	1,779	1,496	0	0	0	0	11	27
Missouri	5,267	5,275	-0.1%	5,267	5,275	0	0	0	0	0	0
Nebraska	1,769	2,035	-13.0%	1,754	2,000	0	0	0	0	16	35
North Dakota	2,405	2,493	-3.6%	2,394	2,493	0	0	0	0	10	0
South Dakota	171	207	-17.4%	171	207	0	0	0	0	0	0
South Atlantic	16,872	17,336	-2.7%	15,138	15,256	1,695	2,037	1	0	38	44
Delaware	23	16	47.2%	0	0	23	16	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,008	1,890	6.2%	2,006	1,887	0	0	0	0	2	3
Georgia	2,682	2,717	-1.3%	2,667	2,702	0	0	0	0	15	15
Maryland	465	783	-40.6%	0	0	465	783	0	0	0	0
North Carolina	3,724	4,094	-9.0%	3,705	4,074	7	8	1	0	10	12
South Carolina	1,562	1,658	-5.8%	1,547	1,640	14	17	0	0	1	1
Virginia	687	565	21.5%	671	552	6	-1	0	0	10	14
West Virginia	5,722	5,614	1.9%	4,542	4,400	1,180	1,214	0	0	0	0
East South Central	10,321	10,352	-0.3%	10,022	10,024	267	279	0	0	33	49
Alabama	2,510	2,552	-1.6%	2,510	2,552	0	0	0	0	0	0
Kentucky	4,793	5,150	-6.9%	4,793	5,150	0	0	0	0	0	0
Mississippi	687	523	31.4%	420	244	267	279	0	0	0	0
Tennessee	2,331	2,127	9.6%	2,298	2,078	0	0	0	0	33	49
West South Central	13,213	12,740	3.7%	7,577	7,063	5,629	5,664	0	0	7	13
Arkansas	2,383	2,299	3.7%	2,177	1,909	204	387	0	0	3	4
Louisiana	614	727	-15.5%	570	707	45	20	0	0	0	0
Oklahoma	1,148	821	39.9%	1,144	811	0	0	0	0	4	10
Texas	9,067	8,893	2.0%	3,686	3,637	5,381	5,256	0	0	0	0
Mountain	11,906	14,255	-16.5%	10,739	12,572	1,138	1,654	0	0	30	28
Arizona	1,759	2,827	-37.8%	1,759	2,827	0	0	0	0	0	0
Colorado	1,864	2,402	-22.4%	1,864	2,402	0	0	0	0	0	0
Idaho	NM	0	--	0	0	0	0	0	0	NM	0
Montana	937	1,476	-36.6%	13	26	923	1,450	0	0	NM	0
Nevada	328	308	6.2%	209	195	118	113	0	0	0	0
New Mexico	1,421	1,552	-8.5%	1,421	1,552	0	0	0	0	0	0
Utah	2,490	2,346	6.1%	2,452	2,316	38	31	0	0	0	0
Wyoming	3,108	3,342	-7.0%	3,022	3,254	59	60	0	0	28	28
Pacific Contiguous	971	1,191	-18.5%	348	348	596	841	0	0	27	1
California	24	0	--	0	0	0	0	0	0	24	0
Oregon	348	348	-0.1%	348	348	0	0	0	0	0	0
Washington	598	842	-28.9%	0	0	596	841	0	0	3	1
Pacific Noncontiguous	147	181	-18.6%	NM	34	116	141	NM	6	0	0
Alaska	49	54	-8.7%	NM	34	18	14	NM	6	0	0
Hawaii	98	127	-22.9%	0	0	98	127	0	0	0	0
U.S. Total	91,165	94,040	-3.1%	71,210	72,032	19,517	21,485	15	17	423	506

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	81	362	-77.7%	56	257	17	98	0	0	8	7
Connecticut	-14	61	-123.1%	0	0	-14	61	0	0	0	0
Maine	39	45	-11.6%	0	0	31	37	0	0	8	7
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	56	257	-78.4%	56	257	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	16,432	27,499	-40.2%	0	0	16,392	27,428	0	0	40	70
New Jersey	625	706	-11.4%	0	0	625	706	0	0	0	0
New York	144	422	-65.9%	0	0	144	422	0	0	0	0
Pennsylvania	15,663	26,371	-40.6%	0	0	15,623	26,300	0	0	40	70
East North Central	112,717	154,791	-27.2%	65,053	90,471	46,454	62,991	16	39	1,195	1,291
Illinois	20,328	34,053	-40.3%	1,250	2,501	18,069	30,512	5	10	1,004	1,029
Indiana	30,711	42,772	-28.2%	27,601	40,083	3,099	2,661	11	28	0	0
Michigan	17,203	26,511	-35.1%	16,950	26,260	251	237	0	0	NM	14
Ohio	27,996	33,097	-15.4%	2,961	3,513	25,035	29,581	0	0	0	3
Wisconsin	16,480	18,358	-10.2%	16,290	18,114	0	0	0	0	189	245
West North Central	93,935	111,153	-15.5%	92,639	109,659	0	0	37	52	1,259	1,443
Iowa	10,160	16,373	-37.9%	9,227	15,286	0	0	33	44	900	1,043
Kansas	11,408	11,730	-2.7%	11,408	11,730	0	0	0	0	0	0
Minnesota	8,587	12,539	-31.5%	8,488	12,354	0	0	1	2	98	183
Missouri	33,135	38,527	-14.0%	33,131	38,521	0	0	3	6	0	0
Nebraska	13,084	13,572	-3.6%	12,906	13,356	0	0	0	0	178	217
North Dakota	16,471	16,598	-0.8%	16,390	16,598	0	0	0	0	82	0
South Dakota	1,090	1,815	-40.0%	1,090	1,815	0	0	0	0	0	0
South Atlantic	80,504	110,268	-27.0%	71,505	98,462	8,668	11,372	23	27	307	407
Delaware	66	126	-47.7%	0	0	66	126	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	10,162	13,876	-26.8%	10,145	13,839	0	0	0	0	18	37
Georgia	8,040	17,893	-55.1%	7,920	17,768	0	0	0	0	120	125
Maryland	2,430	3,901	-37.7%	0	0	2,430	3,869	0	0	0	32
North Carolina	14,420	20,550	-29.8%	14,251	20,378	62	57	22	23	86	92
South Carolina	8,017	10,246	-21.7%	7,891	10,091	122	147	0	0	5	7
Virginia	2,690	2,725	-1.3%	2,587	2,542	22	66	1	4	79	113
West Virginia	34,678	40,951	-15.3%	28,711	33,845	5,967	7,106	0	0	0	0
East South Central	56,687	69,228	-18.1%	54,495	66,988	1,924	1,906	0	0	268	335
Alabama	13,580	17,720	-23.4%	13,580	17,703	0	0	0	0	0	17
Kentucky	29,937	36,000	-16.8%	29,937	36,000	0	0	0	0	0	0
Mississippi	3,277	3,441	-4.7%	1,353	1,535	1,924	1,906	0	0	0	0
Tennessee	9,893	12,068	-18.0%	9,625	11,750	0	0	0	0	268	318
West South Central	67,462	90,678	-25.6%	33,011	49,082	34,371	41,489	0	0	80	107
Arkansas	10,413	15,636	-33.4%	8,455	13,143	1,934	2,466	0	0	24	27
Louisiana	2,927	5,373	-45.5%	2,762	4,179	166	1,194	0	0	0	0
Oklahoma	3,715	6,228	-40.4%	3,658	6,149	0	0	0	0	56	80
Texas	50,407	63,441	-20.5%	18,136	25,611	32,272	37,830	0	0	0	0
Mountain	72,918	93,497	-22.0%	65,522	82,954	7,145	10,290	0	0	251	253
Arizona	8,390	16,848	-50.2%	8,390	16,848	0	0	0	0	0	0
Colorado	13,150	16,532	-20.5%	13,150	16,528	0	0	0	0	0	4
Idaho	13	10	30.3%	0	0	0	0	0	0	13	10
Montana	5,944	9,087	-34.6%	143	192	5,795	8,890	0	0	6	5
Nevada	1,319	1,834	-28.1%	623	1,175	697	659	0	0	0	0
New Mexico	8,615	9,750	-11.6%	8,615	9,750	0	0	0	0	0	0
Utah	13,769	16,121	-14.6%	13,575	15,849	195	272	0	0	0	0
Wyoming	21,717	23,315	-6.9%	21,026	22,611	458	470	0	0	232	234
Pacific Contiguous	3,290	5,570	-40.9%	1,171	1,468	1,914	3,942	0	0	205	161
California	188	145	29.2%	0	0	0	0	0	0	188	145
Oregon	1,171	1,468	-20.2%	1,171	1,468	0	0	0	0	0	0
Washington	1,931	3,957	-51.2%	0	0	1,914	3,942	0	0	17	15
Pacific Noncontiguous	1,224	1,295	-5.4%	254	272	898	963	73	59	0	0
Alaska	465	448	3.8%	254	272	138	116	73	59	0	0
Hawaii	760	847	-10.3%	0	0	760	847	0	0	0	0
U.S. Total	505,250	664,343	-23.9%	383,704	499,613	117,783	160,480	149	176	3,614	4,073

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	12	15	-19.8%	1	1	8	5	1	7	NM	1
Connecticut	3	0	NM	0	0	3	0	0	0	0	0
Maine	2	3	-43.7%	0	0	1	2	0	0	NM	1
Massachusetts	6	11	-42.9%	NM	0	NM	4	NM	6	0	0
New Hampshire	NM	1	NM	0	0	NM	0	0	0	0	0
Rhode Island	NM	0	NM	0	0	NM	0	0	0	NM	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	42	28	47.2%	15	4	25	23	1	0	1	2
New Jersey	2	1	97.5%	0	0	1	1	0	0	0	0
New York	31	12	153.9%	15	4	16	8	NM	0	0	0
Pennsylvania	9	15	-40.8%	0	0	8	14	1	0	NM	1
East North Central	48	32	51.9%	34	22	12	9	0	0	2	1
Illinois	5	3	44.7%	1	1	4	3	0	0	0	0
Indiana	11	8	36.7%	11	7	0	0	0	0	0	1
Michigan	19	10	87.9%	18	10	0	0	NM	0	1	0
Ohio	9	7	25.5%	1	1	8	6	0	0	0	0
Wisconsin	NM	3	NM	NM	3	0	0	NM	0	NM	0
West North Central	42	32	32.4%	39	31	NM	0	2	0	0	0
Iowa	15	14	6.3%	15	14	NM	0	0	0	0	0
Kansas	5	6	-6.9%	5	6	0	0	0	0	0	0
Minnesota	7	2	218.0%	NM	2	NM	0	2	0	0	0
Missouri	11	5	111.7%	11	5	0	0	0	0	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	2	2	4.8%	2	2	0	0	0	0	0	0
South Dakota	NM	2	NM	NM	2	0	0	NM	0	0	0
South Atlantic	99	164	-39.5%	73	143	16	12	5	4	5	5
Delaware	2	1	85.3%	0	0	2	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	16	43	-63.0%	15	41	0	0	0	0	NM	2
Georgia	7	7	-0.2%	3	3	NM	0	NM	0	NM	3
Maryland	8	5	58.7%	NM	0	8	5	NM	0	0	0
North Carolina	14	12	21.8%	13	11	NM	0	NM	0	NM	1
South Carolina	5	6	-15.4%	4	5	0	0	0	0	0	0
Virginia	35	80	-56.7%	25	72	5	5	4	3	NM	0
West Virginia	13	11	16.1%	13	11	0	0	0	0	0	0
East South Central	19	17	9.2%	18	16	NM	0	0	0	NM	1
Alabama	NM	1	NM	0	0	NM	0	0	0	NM	1
Kentucky	4	4	7.1%	4	4	0	0	0	0	0	0
Mississippi	0	1	-78.4%	0	1	0	0	0	0	0	0
Tennessee	14	11	20.3%	13	11	0	0	0	0	0	0
West South Central	10	10	2.5%	6	8	3	0	0	0	NM	1
Arkansas	4	2	129.2%	1	1	2	0	0	0	NM	0
Louisiana	1	2	-50.3%	1	2	0	0	0	0	0	0
Oklahoma	1	3	-46.2%	1	2	0	0	0	0	0	0
Texas	4	3	10.4%	3	3	1	0	0	0	0	0
Mountain	29	25	14.8%	28	24	1	1	NM	0	0	0
Arizona	2	4	-46.2%	2	4	0	0	NM	0	0	0
Colorado	NM	0	NM	NM	0	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	NM	0	NM	NM	0	NM	0	0	0	0	0
Nevada	0	1	-59.9%	0	1	0	0	0	0	0	0
New Mexico	17	12	44.8%	17	12	0	0	0	0	0	0
Utah	3	3	-8.3%	3	3	0	1	0	0	0	0
Wyoming	5	4	13.3%	5	4	0	0	0	0	0	0
Pacific Contiguous	11	5	103.0%	4	4	5	1	NM	0	NM	0
California	7	4	70.7%	3	4	3	0	0	0	1	0
Oregon	NM	1	NM	NM	1	0	0	NM	0	0	0
Washington	4	1	357.6%	NM	0	2	0	0	0	NM	0
Pacific Noncontiguous	615	727	-15.4%	489	555	113	149	1	1	12	22
Alaska	92	76	21.3%	88	71	NM	0	0	0	4	5
Hawaii	523	651	-19.7%	402	484	112	149	0	1	8	17
U.S. Total	926	1,054	-12.2%	709	809	184	200	10	12	23	33

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.5.B. Utility Scale Facility Net Generation from Petroleum Liquids

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	69	133	-48.5%	13	15	34	79	14	28	7	11
Connecticut	8	10	-20.6%	3	3	4	2	0	3	0	2
Maine	19	24	-18.1%	0	0	12	14	1	2	6	8
Massachusetts	25	75	-66.0%	4	4	15	57	5	13	0	1
New Hampshire	12	18	-31.4%	5	8	NM	2	7	9	0	0
Rhode Island	3	7	-53.7%	0	0	NM	5	1	2	NM	0
Vermont	1	1	8.2%	1	1	0	0	0	0	0	0
Middle Atlantic	216	645	-66.4%	71	208	130	406	7	12	8	18
New Jersey	22	50	-55.7%	0	1	22	47	0	2	0	1
New York	142	464	-69.4%	71	207	63	237	4	8	4	12
Pennsylvania	52	130	-59.9%	0	0	46	122	3	2	4	5
East North Central	274	335	-18.0%	183	206	86	118	1	2	5	10
Illinois	19	29	-34.9%	4	5	15	24	0	0	0	0
Indiana	78	89	-12.8%	77	84	0	0	0	NM	1	5
Michigan	67	66	1.8%	65	63	0	0	NM	1	2	2
Ohio	81	111	-27.5%	9	22	70	86	0	0	1	3
Wisconsin	30	39	-23.7%	28	31	1	7	NM	0	NM	0
West North Central	286	305	-6.2%	277	296	5	6	3	2	1	1
Iowa	106	115	-7.5%	104	112	2	2	0	0	0	0
Kansas	54	47	13.9%	54	47	0	0	0	0	0	0
Minnesota	32	30	6.7%	25	24	NM	4	3	2	1	1
Missouri	55	66	-16.8%	55	66	0	0	0	0	0	0
Nebraska	10	12	-17.2%	10	12	0	0	0	0	0	0
North Dakota	22	25	-12.8%	22	25	0	0	0	0	0	0
South Dakota	7	9	-26.0%	7	9	0	0	NM	0	0	0
South Atlantic	572	876	-34.7%	417	681	86	120	29	26	40	49
Delaware	9	18	-52.4%	0	0	9	18	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	141	244	-42.5%	128	232	3	1	0	0	10	11
Georgia	20	72	-72.1%	0	41	NM	3	1	2	18	26
Maryland	53	51	3.7%	-1	0	53	50	NM	0	0	1
North Carolina	89	142	-37.5%	81	133	NM	4	NM	1	5	5
South Carolina	40	53	-25.4%	36	48	1	2	0	0	3	4
Virginia	123	210	-41.4%	74	143	18	42	28	22	3	2
West Virginia	98	86	14.8%	98	85	0	1	0	0	0	0
East South Central	131	172	-23.7%	125	162	1	2	0	0	5	8
Alabama	6	13	-56.4%	3	8	1	1	0	0	3	4
Kentucky	38	38	1.4%	38	38	0	0	0	0	0	0
Mississippi	5	11	-53.3%	3	9	0	0	0	0	2	1
Tennessee	82	110	-25.4%	81	108	0	0	0	0	1	2
West South Central	82	97	-14.9%	61	70	19	20	0	0	2	6
Arkansas	26	30	-13.8%	19	19	7	9	0	0	NM	2
Louisiana	9	13	-30.3%	9	13	0	0	0	0	0	0
Oklahoma	13	15	-11.8%	13	14	0	0	0	0	1	1
Texas	34	39	-12.1%	20	25	13	11	0	0	1	2
Mountain	222	238	-6.7%	216	228	6	10	NM	0	0	0
Arizona	23	43	-45.2%	23	43	0	0	NM	0	0	0
Colorado	6	6	-5.8%	6	6	0	0	0	0	0	0
Idaho	0	0	-72.8%	0	0	0	0	0	0	0	0
Montana	5	9	-50.7%	NM	1	4	8	0	0	0	0
Nevada	4	9	-57.0%	3	7	1	2	0	0	0	0
New Mexico	132	119	10.5%	132	119	0	0	0	0	0	0
Utah	25	24	3.1%	24	23	1	1	0	0	0	0
Wyoming	28	27	0.9%	28	27	0	0	0	0	0	0
Pacific Contiguous	53	50	4.6%	29	28	12	7	0	1	12	14
California	33	34	-1.1%	22	23	5	2	0	0	5	8
Oregon	3	4	-22.6%	3	4	0	0	NM	0	0	0
Washington	16	13	28.6%	3	1	6	5	0	0	NM	6
Pacific Noncontiguous	4,638	4,984	-7.0%	3,632	3,719	844	1,089	7	7	155	170
Alaska	656	546	20.1%	619	509	1	2	2	4	33	31
Hawaii	3,982	4,438	-10.3%	3,013	3,210	842	1,087	4	3	122	139
U.S. Total	6,543	7,834	-16.5%	5,023	5,613	1,223	1,856	62	78	235	287

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 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	5	11	-51.2%	0	0	0	0	0	0	5	11
New Jersey	5	6	-15.5%	0	0	0	0	0	0	5	6
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	4	-100.0%	0	0	0	0	0	0	0	4
East North Central	189	175	7.7%	90	67	83	93	0	0	15	15
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	94	71	31.4%	79	58	0	0	0	0	15	14
Ohio	83	94	-11.6%	0	0	83	93	0	0	0	1
Wisconsin	12	10	20.7%	12	10	0	0	0	0	0	0
West North Central	7	2	266.0%	0	0	0	0	0	0	7	2
Iowa	7	2	266.0%	0	0	0	0	0	0	7	2
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	192	100	93.3%	170	86	0	0	0	0	22	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	170	86	98.0%	170	86	0	0	0	0	0	0
Georgia	22	13	63.1%	0	0	0	0	0	0	22	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	375	356	5.2%	365	347	0	0	0	0	10	9
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	365	347	5.0%	365	347	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	10	9	10.4%	0	0	0	0	0	0	10	9
Mountain	41	40	1.2%	0	0	41	40	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	41	40	1.2%	0	0	41	40	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	809	684	18.2%	626	501	124	134	0	0	59	50

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 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	24	73	-67.9%	0	0	0	0	0	0	24	73
New Jersey	24	45	-47.6%	0	0	0	0	0	0	24	45
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	28	-100.0%	0	0	0	0	0	0	0	28
East North Central	1,273	1,244	2.4%	584	575	587	575	0	0	103	94
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	624	605	3.2%	521	514	0	0	0	0	103	91
Ohio	587	578	1.5%	0	0	587	575	0	0	0	3
Wisconsin	62	61	2.4%	62	61	0	0	0	0	0	0
West North Central	45	68	-33.7%	0	0	0	0	2	4	43	64
Iowa	45	68	-33.7%	0	0	0	0	2	4	43	64
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,264	952	32.7%	1,111	855	0	0	0	0	154	97
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	1,111	855	29.9%	1,111	855	0	0	0	0	0	0
Georgia	154	97	58.1%	0	0	0	0	0	0	154	97
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	2,642	2,583	2.3%	2,581	2,510	0	0	0	0	60	73
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,581	2,515	2.6%	2,581	2,510	0	0	0	0	0	6
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	60	68	-11.1%	0	0	0	0	0	0	60	68
Mountain	299	321	-6.9%	0	0	299	321	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	299	321	-6.9%	0	0	299	321	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	5,547	5,242	5.8%	4,276	3,939	886	896	2	4	384	402

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	5,629	5,575	1.0%	53	25	5,336	5,294	103	104	137	152
Connecticut	2,314	2,166	6.8%	3	5	2,219	2,056	38	43	54	62
Maine	202	179	12.8%	0	0	150	132	3	3	49	44
Massachusetts	1,831	1,728	6.0%	48	21	1,709	1,632	56	52	17	23
New Hampshire	443	547	-19.1%	1	0	438	543	1	1	2	3
Rhode Island	840	955	-12.1%	0	0	820	930	6	5	14	20
Vermont	0	0	140.1%	0	0	0	0	0	0	0	0
Middle Atlantic	23,366	20,562	13.6%	1,459	1,229	21,566	18,953	114	133	226	247
New Jersey	3,731	4,357	-14.4%	NM	19	3,651	4,273	20	24	38	41
New York	6,571	5,709	15.1%	1,437	1,210	5,000	4,353	83	97	50	50
Pennsylvania	13,064	10,496	24.5%	0	0	12,915	10,327	11	12	137	157
East North Central	16,011	16,008	0.0%	5,386	5,280	10,098	10,246	133	139	393	343
Illinois	2,743	2,617	4.8%	364	223	2,287	2,301	35	40	58	52
Indiana	2,932	3,021	-3.0%	1,235	1,259	1,482	1,581	18	19	196	161
Michigan	3,177	3,638	-12.7%	1,125	1,500	1,952	2,039	49	51	50	48
Ohio	5,023	4,823	4.2%	728	675	4,245	4,107	24	25	25	16
Wisconsin	2,137	1,910	11.9%	1,935	1,622	132	218	6	5	64	65
West North Central	3,626	4,347	-16.6%	3,023	3,458	516	786	33	33	55	70
Iowa	601	1,032	-41.8%	558	965	NM	0	12	11	30	56
Kansas	344	384	-10.5%	332	382	0	0	0	0	12	2
Minnesota	1,157	1,473	-21.5%	852	1,026	289	432	8	7	8	7
Missouri	1,005	934	7.6%	763	564	227	354	12	14	2	2
Nebraska	207	226	-8.5%	207	226	0	0	0	1	0	0
North Dakota	156	179	-12.4%	155	178	0	0	0	0	1	1
South Dakota	157	119	31.7%	157	117	0	0	0	0	0	2
South Atlantic	40,432	39,812	1.6%	33,314	32,729	6,545	6,500	112	127	461	456
Delaware	707	701	0.8%	7	6	608	594	0	0	93	102
District of Columbia	15	9	62.6%	0	0	0	0	15	9	0	0
Florida	19,110	18,652	2.5%	18,221	17,705	739	793	2	1	148	153
Georgia	6,063	5,997	1.1%	4,563	4,563	1,446	1,386	0	0	53	48
Maryland	1,329	1,472	-9.7%	286	414	953	950	87	104	4	4
North Carolina	4,151	3,954	5.0%	3,328	3,115	798	816	9	11	15	12
South Carolina	2,459	2,518	-2.4%	2,365	2,415	79	93	0	0	14	10
Virginia	6,288	6,216	1.1%	4,532	4,471	1,683	1,677	0	1	73	67
West Virginia	311	292	6.4%	12	40	240	192	0	0	59	60
East South Central	14,146	14,636	-3.3%	10,059	10,654	3,781	3,663	20	20	286	299
Alabama	5,844	5,957	-1.9%	2,007	2,180	3,725	3,642	0	0	112	135
Kentucky	1,475	1,433	2.9%	1,402	1,396	54	19	0	0	19	18
Mississippi	5,423	5,499	-1.4%	5,379	5,456	1	0	0	0	44	43
Tennessee	1,404	1,746	-19.6%	1,271	1,622	2	2	20	20	111	102
West South Central	41,510	46,372	-10.5%	15,139	17,150	20,617	22,842	96	101	5,659	6,280
Arkansas	2,048	2,483	-17.5%	1,928	2,337	99	117	NM	5	18	25
Louisiana	6,822	7,103	-4.0%	4,256	4,096	393	565	13	17	2,159	2,425
Oklahoma	4,841	5,838	-17.1%	3,169	3,819	1,630	1,981	0	0	42	38
Texas	27,799	30,948	-10.2%	5,786	6,898	18,495	20,179	79	79	3,440	3,792
Mountain	14,192	13,354	6.3%	11,684	10,879	2,324	2,325	34	38	150	112
Arizona	5,813	5,396	7.7%	4,608	4,116	1,193	1,268	12	12	0	0
Colorado	2,080	1,851	12.4%	1,709	1,584	368	265	1	0	2	2
Idaho	451	472	-4.5%	283	286	154	172	3	3	11	11
Montana	NM	58	NM	NM	40	NM	18	0	0	NM	0
Nevada	3,067	3,087	-0.7%	2,819	2,853	194	190	6	6	48	38
New Mexico	1,403	1,415	-0.8%	984	996	409	407	9	12	1	0
Utah	1,127	994	13.4%	1,098	956	0	6	2	4	26	28
Wyoming	210	81	159.9%	148	48	0	0	0	0	62	32
Pacific Contiguous	14,984	14,073	6.5%	5,769	6,117	8,084	6,787	145	157	986	1,011
California	11,545	9,691	19.1%	3,812	3,457	6,685	5,131	141	154	907	950
Oregon	1,873	2,300	-18.6%	958	1,238	904	1,054	4	4	7	4
Washington	1,566	2,082	-24.8%	999	1,422	495	603	1	0	71	57
Pacific Noncontiguous	234	216	8.5%	229	210	0	0	0	0	5	6
Alaska	234	216	8.5%	229	210	0	0	0	0	5	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	174,130	174,955	-0.5%	86,115	87,732	78,867	77,396	790	852	8,357	8,976

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	34,492	33,473	3.0%	208	117	32,548	31,603	701	715	1,035	1,038
Connecticut	16,043	14,235	12.7%	24	36	15,316	13,480	267	287	436	432
Maine	1,306	1,242	5.1%	0	0	946	907	21	20	338	314
Massachusetts	9,617	10,944	-12.1%	171	77	8,928	10,325	373	367	145	174
New Hampshire	2,537	2,266	12.0%	13	4	2,500	2,235	6	8	18	20
Rhode Island	4,989	4,785	4.3%	0	0	4,857	4,656	33	32	98	97
Vermont	1	1	4.3%	1	1	0	0	1	1	0	0
Middle Atlantic	139,046	123,925	12.2%	7,531	7,135	129,116	114,216	762	825	1,637	1,749
New Jersey	21,749	27,081	-19.7%	106	106	21,221	26,527	128	166	294	283
New York	36,257	32,636	11.1%	7,423	7,027	27,884	24,658	554	564	396	387
Pennsylvania	81,040	64,208	26.2%	3	2	80,010	63,031	80	95	947	1,079
East North Central	116,678	106,125	9.9%	39,429	33,950	73,298	68,499	935	954	3,016	2,723
Illinois	17,872	14,643	22.0%	2,455	980	14,833	13,091	225	229	359	343
Indiana	22,589	20,510	10.1%	9,696	8,211	11,266	10,834	125	131	1,502	1,334
Michigan	24,599	22,682	8.5%	8,281	7,604	15,507	14,276	390	406	420	396
Ohio	36,339	34,877	4.2%	5,156	5,234	30,847	29,327	147	152	190	163
Wisconsin	15,279	13,414	13.9%	13,841	11,921	846	971	47	35	545	487
West North Central	24,091	23,941	0.6%	19,533	19,755	3,798	3,421	231	235	529	530
Iowa	4,982	5,206	-4.3%	4,598	4,765	NM	0	75	76	309	365
Kansas	2,016	2,054	-1.9%	1,913	2,000	0	0	0	0	103	55
Minnesota	8,195	8,298	-1.2%	6,036	6,546	2,011	1,607	68	67	79	78
Missouri	5,791	5,459	6.1%	3,893	3,538	1,787	1,814	86	88	25	19
Nebraska	1,124	1,011	11.1%	1,121	1,008	0	0	3	4	0	0
North Dakota	1,051	1,003	4.8%	1,039	997	0	0	0	0	12	6
South Dakota	933	910	2.5%	933	903	0	0	0	0	0	7
South Atlantic	273,907	260,060	5.3%	225,493	214,570	44,053	41,266	813	891	3,547	3,333
Delaware	3,547	3,564	-0.5%	18	23	2,793	2,802	0	0	735	739
District of Columbia	85	71	18.5%	0	0	0	0	85	71	0	0
Florida	128,349	122,119	5.1%	122,099	116,344	5,116	4,664	16	13	1,118	1,098
Georgia	40,165	38,563	4.2%	30,215	29,224	9,524	8,999	0	0	427	339
Maryland	9,785	10,491	-6.7%	2,229	3,050	6,890	6,676	634	717	32	48
North Carolina	28,582	27,641	3.4%	22,809	21,693	5,587	5,767	71	81	115	101
South Carolina	17,092	16,115	6.1%	16,546	15,391	418	642	0	0	127	82
Virginia	44,467	40,257	10.5%	31,511	28,697	12,382	11,041	8	9	567	510
West Virginia	1,834	1,238	48.2%	66	148	1,342	675	0	0	426	416
East South Central	95,039	92,206	3.1%	68,375	66,019	24,313	23,756	146	136	2,205	2,294
Alabama	37,712	38,641	-2.4%	12,971	14,117	23,878	23,508	0	0	863	1,016
Kentucky	10,094	9,798	3.0%	9,516	9,407	420	234	0	0	157	157
Mississippi	36,512	32,322	13.0%	36,158	31,989	3	2	0	0	351	331
Tennessee	10,721	11,444	-6.3%	9,731	10,506	11	12	146	136	834	790
West South Central	265,271	263,725	0.6%	95,402	92,002	124,906	125,520	582	617	44,381	45,585
Arkansas	11,847	14,772	-19.8%	10,812	13,671	846	866	27	29	161	206
Louisiana	48,645	47,859	1.6%	28,960	26,160	2,550	3,259	121	107	17,014	18,334
Oklahoma	32,185	29,829	7.9%	20,792	18,860	11,058	10,705	0	0	334	264
Texas	172,595	171,264	0.8%	34,837	33,311	110,451	110,691	434	482	26,872	26,781
Mountain	82,833	76,133	8.8%	66,993	61,409	14,529	13,515	262	280	1,050	929
Arizona	33,417	29,492	13.3%	25,939	22,351	7,388	7,048	90	92	0	0
Colorado	12,953	11,602	11.6%	11,048	9,914	1,883	1,673	6	1	16	14
Idaho	2,717	2,626	3.5%	1,508	1,429	1,094	1,091	27	26	88	80
Montana	263	332	-20.6%	232	228	30	103	0	0	NM	1
Nevada	17,971	17,100	5.1%	16,272	15,419	1,441	1,424	40	44	218	214
New Mexico	8,423	7,805	7.9%	5,695	5,603	2,653	2,127	64	71	11	4
Utah	6,100	6,544	-6.8%	5,819	6,200	38	48	35	47	207	249
Wyoming	988	632	56.3%	480	264	1	1	0	0	507	367
Pacific Contiguous	75,958	73,894	2.8%	30,219	29,504	37,216	35,693	1,057	1,157	7,467	7,540
California	55,297	51,656	7.0%	17,961	17,111	29,438	26,401	1,017	1,121	6,882	7,022
Oregon	11,630	12,898	-9.8%	5,944	6,357	5,571	6,467	31	29	83	44
Washington	9,031	9,340	-3.3%	6,313	6,035	2,207	2,825	9	7	502	474
Pacific Noncontiguous	1,576	1,873	-15.9%	1,533	1,825	0	0	0	0	43	48
Alaska	1,576	1,873	-15.9%	1,533	1,825	0	0	0	0	43	48
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,108,889	1,055,354	5.1%	554,715	526,286	483,777	457,491	5,488	5,811	64,910	65,767

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2010-August 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	1,342,027	129,394	106,113	6,655	1,527	1,585,717
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	106,334	9,264	5,421	448	115	121,582
February	98,163	8,615	4,790	457	110	112,135
March	99,609	8,931	6,638	514	113	115,806
April	87,342	9,171	7,000	445	95	104,053
May	97,486	9,982	9,038	458	89	117,053
June	116,486	10,601	10,114	519	108	137,828
July	141,523	14,569	14,940	746	164	171,942
August	143,822	14,479	15,729	756	169	174,955
Sept	124,789	12,150	11,986	623	140	149,688
October	109,327	11,413	9,492	575	134	130,941
November	101,425	10,324	5,438	578	139	117,904
December	115,721	9,896	5,527	534	151	131,830
Year 2020						
January	117,691	8,629	6,385	440	9	133,154
February	110,750	8,341	6,046	409	8	125,554
March	106,328	9,431	7,363	523	10	123,654
April	93,401	7,602	6,503	413	9	107,929
May	98,828	8,886	7,686	446	9	115,855
June	118,611	13,022	10,958	577	11	143,180
July	145,372	21,929	17,263	858	13	185,433
August	142,029	16,698	14,587	808	7	174,130

Values for 2019 and prior years are final. Values for 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, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 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	NM	76	NM	0	0	0	0	0	0	NM	76
New Jersey	15	19	-20.6%	0	0	0	0	0	0	15	19
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	57	NM	0	0	0	0	0	0	NM	57
East North Central	315	448	-29.8%	0	16	153	210	0	0	162	222
Illinois	22	24	-6.3%	0	0	0	0	0	0	22	24
Indiana	127	189	-32.8%	0	0	0	0	0	0	127	189
Michigan	124	166	-25.3%	0	16	124	150	0	0	0	0
Ohio	NM	69	NM	0	0	NM	60	0	0	13	10
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	3	4	-25.1%	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	-25.1%	0	0	0	0	0	0	3	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	21	27	-20.9%	0	0	0	0	0	0	21	27
Delaware	17	23	-27.6%	0	0	0	0	0	0	17	23
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-16.4%	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	4	16.7%	0	0	0	0	0	0	5	4
East South Central	2	1	21.9%	0	0	0	0	0	0	2	1
Alabama	NM	0	NM	0	0	0	0	0	0	NM	0
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	23.1%	0	0	0	0	0	0	1	1
West South Central	406	421	-3.4%	0	0	149	150	0	0	257	271
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	169	157	7.9%	0	0	0	0	0	0	169	157
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	237	264	-10.2%	0	0	149	150	0	0	88	114
Mountain	34	15	130.6%	0	0	1	1	0	0	33	13
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	1	-28.4%	0	0	1	1	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	3	-49.6%	0	0	0	0	0	0	1	3
Wyoming	31	11	197.5%	0	0	0	0	0	0	31	11
Pacific Contiguous	186	155	20.2%	0	0	0	0	0	0	186	155
California	162	119	36.6%	0	0	0	0	0	0	162	119
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	24	36	-33.5%	0	0	0	0	0	0	24	36
Pacific Noncontiguous	0	0	-100.0%	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	-100.0%	0	0	0	0	0	0	0	0
U.S. Total	1,002	1,147	-12.7%	0	16	303	361	0	0	699	770

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 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	406	456	-11.1%	0	0	26	0	0	0	380	456
New Jersey	133	141	-5.8%	0	0	0	0	0	0	133	141
New York	0	2	-100.0%	0	0	0	0	0	0	0	2
Pennsylvania	273	313	-13.0%	0	0	26	0	0	0	247	313
East North Central	2,333	3,212	-27.4%	47	122	800	1,548	0	0	1,486	1,542
Illinois	205	166	23.4%	0	0	0	0	0	0	205	166
Indiana	1,190	1,269	-6.2%	0	0	0	0	0	0	1,190	1,269
Michigan	537	1,218	-55.9%	47	122	489	1,096	0	0	0	0
Ohio	401	558	-28.1%	0	0	311	452	0	0	91	106
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	26	34	-23.2%	0	0	0	0	0	0	26	34
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	26	34	-23.2%	0	0	0	0	0	0	26	34
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	146	161	-9.6%	0	0	0	0	0	0	146	161
Delaware	114	132	-13.0%	0	0	0	0	0	0	114	132
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-31.5%	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	31	29	6.0%	0	0	0	0	0	0	31	29
East South Central	9	10	-3.7%	0	0	0	0	0	0	9	10
Alabama	NM	2	NM	0	0	0	0	0	0	NM	2
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	8	8	-0.4%	0	0	0	0	0	0	8	8
West South Central	2,950	3,137	-6.0%	0	0	1,038	1,149	0	0	1,911	1,988
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,200	1,221	-1.7%	0	0	0	0	0	0	1,200	1,221
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,750	1,916	-8.7%	0	0	1,038	1,149	0	0	711	767
Mountain	272	173	57.2%	0	0	8	6	0	0	264	167
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	8	6	30.6%	0	0	8	6	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	4	12	-66.5%	0	0	0	0	0	0	4	12
Wyoming	260	155	67.9%	0	0	0	0	0	0	260	155
Pacific Contiguous	1,268	1,216	4.3%	0	0	0	0	0	0	1,268	1,216
California	1,060	1,016	4.4%	0	0	0	0	0	0	1,060	1,016
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	207	200	3.8%	0	0	0	0	0	0	207	200
Pacific Noncontiguous	3	4	-25.6%	0	0	0	0	0	0	3	4
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	3	4	-25.6%	0	0	0	0	0	0	3	4
U.S. Total	7,412	8,401	-11.8%	47	122	1,872	2,703	0	0	5,492	5,576

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	2,439	2,462	-1.0%	0	0	2,439	2,462	0	0	0	0
Connecticut	1,512	1,536	-1.6%	0	0	1,512	1,536	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	927	926	0.1%	0	0	927	926	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	12,397	13,605	-8.9%	0	0	12,397	13,605	0	0	0	0
New Jersey	2,539	2,298	10.5%	0	0	2,539	2,298	0	0	0	0
New York	3,125	3,916	-20.2%	0	0	3,125	3,916	0	0	0	0
Pennsylvania	6,734	7,390	-8.9%	0	0	6,734	7,390	0	0	0	0
East North Central	13,720	13,670	0.4%	2,214	2,464	11,505	11,206	0	0	0	0
Illinois	8,524	8,351	2.1%	0	0	8,524	8,351	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,726	3,040	-10.3%	2,214	2,464	512	576	0	0	0	0
Ohio	1,582	1,421	11.3%	0	0	1,582	1,421	0	0	0	0
Wisconsin	887	858	3.4%	0	0	887	858	0	0	0	0
West North Central	3,643	4,086	-10.8%	3,533	3,640	110	446	0	0	0	0
Iowa	110	446	-75.3%	0	0	110	446	0	0	0	0
Kansas	893	893	0.0%	893	893	0	0	0	0	0	0
Minnesota	1,191	1,266	-5.9%	1,191	1,266	0	0	0	0	0	0
Missouri	893	902	-1.0%	893	902	0	0	0	0	0	0
Nebraska	556	579	-3.9%	556	579	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	17,294	18,052	-4.2%	16,005	16,767	1,290	1,284	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	2,573	2,735	-5.9%	2,573	2,735	0	0	0	0	0	0
Georgia	2,577	3,020	-14.7%	2,577	3,020	0	0	0	0	0	0
Maryland	1,290	1,284	0.4%	0	0	1,290	1,284	0	0	0	0
North Carolina	3,311	3,839	-13.7%	3,311	3,839	0	0	0	0	0	0
South Carolina	4,893	4,504	8.6%	4,893	4,504	0	0	0	0	0	0
Virginia	2,651	2,669	-0.7%	2,651	2,669	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,602	8,300	-8.4%	7,602	8,300	0	0	0	0	0	0
Alabama	3,997	3,991	0.2%	3,997	3,991	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	298	1,046	-71.5%	298	1,046	0	0	0	0	0	0
Tennessee	3,307	3,263	1.4%	3,307	3,263	0	0	0	0	0	0
West South Central	6,519	6,429	1.4%	2,822	2,739	3,697	3,690	0	0	0	0
Arkansas	1,362	1,353	0.7%	1,362	1,353	0	0	0	0	0	0
Louisiana	1,460	1,386	5.3%	1,460	1,386	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,697	3,690	0.2%	0	0	3,697	3,690	0	0	0	0
Mountain	2,921	2,782	5.0%	2,921	2,782	0	0	0	0	0	0
Arizona	2,921	2,782	5.0%	2,921	2,782	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	2,446	2,526	-3.2%	2,446	2,526	0	0	0	0	0	0
California	1,598	1,678	-4.8%	1,598	1,678	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	849	848	0.0%	849	848	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	68,982	71,911	-4.1%	37,544	39,218	31,438	32,693	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.9.B. Utility Scale Facility Net Generation from Nuclear Energy

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	17,123	20,330	-15.8%	0	0	17,123	20,330	0	0	0	0
Connecticut	10,910	10,881	0.3%	0	0	10,910	10,881	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	6,213	7,272	-14.6%	0	0	6,213	7,272	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	95,483	103,854	-8.1%	0	0	95,483	103,854	0	0	0	0
New Jersey	18,595	17,713	5.0%	0	0	18,595	17,713	0	0	0	0
New York	26,192	29,110	-10.0%	0	0	26,192	29,110	0	0	0	0
Pennsylvania	50,696	57,031	-11.1%	0	0	50,696	57,031	0	0	0	0
East North Central	105,105	105,990	-0.8%	15,472	17,690	89,633	88,299	0	0	0	0
Illinois	66,466	66,532	-0.1%	0	0	66,466	66,532	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	20,105	22,189	-9.4%	15,472	17,690	4,634	4,499	0	0	0	0
Ohio	11,858	10,772	10.1%	0	0	11,858	10,772	0	0	0	0
Wisconsin	6,676	6,496	2.8%	0	0	6,676	6,496	0	0	0	0
West North Central	31,538	30,139	4.6%	28,633	26,679	2,905	3,460	0	0	0	0
Iowa	2,905	3,460	-16.0%	0	0	2,905	3,460	0	0	0	0
Kansas	7,055	7,089	-0.5%	7,055	7,089	0	0	0	0	0	0
Minnesota	9,987	9,375	6.5%	9,987	9,375	0	0	0	0	0	0
Missouri	6,995	5,607	24.8%	6,995	5,607	0	0	0	0	0	0
Nebraska	4,596	4,608	-0.3%	4,596	4,608	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	136,262	137,633	-1.0%	126,408	127,848	9,853	9,785	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	19,834	19,520	1.6%	19,834	19,520	0	0	0	0	0	0
Georgia	21,335	21,799	-2.1%	21,335	21,799	0	0	0	0	0	0
Maryland	9,853	9,785	0.7%	0	0	9,853	9,785	0	0	0	0
North Carolina	28,221	27,741	1.7%	28,221	27,741	0	0	0	0	0	0
South Carolina	36,740	38,580	-4.8%	36,740	38,580	0	0	0	0	0	0
Virginia	20,279	20,208	0.4%	20,279	20,208	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	57,600	62,215	-7.4%	57,600	62,215	0	0	0	0	0	0
Alabama	29,571	29,117	1.6%	29,571	29,117	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	3,779	7,652	-50.6%	3,779	7,652	0	0	0	0	0	0
Tennessee	24,250	25,446	-4.7%	24,250	25,446	0	0	0	0	0	0
West South Central	49,675	44,517	11.6%	22,144	16,959	27,531	27,558	0	0	0	0
Arkansas	9,789	9,141	7.1%	9,789	9,141	0	0	0	0	0	0
Louisiana	12,354	7,819	58.0%	12,354	7,819	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	27,531	27,558	-0.1%	0	0	27,531	27,558	0	0	0	0
Mountain	21,734	21,910	-0.8%	21,734	21,910	0	0	0	0	0	0
Arizona	21,734	21,910	-0.8%	21,734	21,910	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	18,678	17,526	6.6%	18,678	17,526	0	0	0	0	0	0
California	12,579	12,044	4.4%	12,579	12,044	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	6,098	5,482	11.2%	6,098	5,482	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	533,198	544,114	-2.0%	290,669	290,828	242,529	253,286	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	630	236	167.4%	85	32	536	200	0	0	NM	3
Connecticut	NM	12	NM	NM	1	NM	12	0	0	0	0
Maine	283	108	162.4%	NM	0	273	104	0	0	NM	3
Massachusetts	80	30	170.3%	NM	6	63	24	0	0	0	0
New Hampshire	126	45	181.5%	NM	11	97	34	0	0	0	0
Rhode Island	0	0	-70.6%	0	0	0	0	0	0	0	0
Vermont	108	41	164.5%	38	15	70	26	0	0	0	0
Middle Atlantic	2,913	2,973	-2.0%	2,194	2,208	716	762	0	0	NM	3
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	2,629	2,674	-1.7%	2,192	2,205	434	465	0	0	NM	3
Pennsylvania	284	299	-5.3%	2	3	282	297	0	0	0	0
East North Central	447	420	6.4%	394	370	42	40	0	0	NM	10
Illinois	NM	13	NM	NM	6	NM	7	0	0	0	0
Indiana	NM	22	NM	NM	22	0	0	0	0	0	0
Michigan	146	139	4.8%	135	129	NM	10	0	0	NM	1
Ohio	34	34	0.4%	NM	23	NM	11	0	0	0	0
Wisconsin	233	212	10.0%	210	191	NM	12	0	0	NM	9
West North Central	1,442	887	62.6%	1,417	868	NM	12	0	0	5	7
Iowa	70	43	64.1%	70	42	0	1	0	0	0	0
Kansas	2	1	103.6%	0	0	2	1	0	0	0	0
Minnesota	90	58	54.4%	68	41	NM	11	0	0	5	7
Missouri	179	117	52.8%	179	117	0	0	0	0	0	0
Nebraska	120	72	67.3%	120	72	0	0	0	0	0	0
North Dakota	282	171	65.0%	282	171	0	0	0	0	0	0
South Dakota	699	425	64.4%	699	425	0	0	0	0	0	0
South Atlantic	1,512	1,004	50.7%	1,360	869	103	103	1	1	47	31
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	11	NM	NM	11	0	0	0	0	0	0
Georgia	351	237	48.0%	349	236	NM	0	0	0	NM	1
Maryland	51	71	-28.3%	0	0	51	71	0	0	0	0
North Carolina	533	349	52.8%	526	345	NM	3	1	1	NM	0
South Carolina	270	156	73.5%	265	152	NM	3	0	0	0	0
Virginia	152	91	67.1%	145	87	NM	4	0	0	0	0
West Virginia	139	90	55.1%	59	38	35	22	0	0	45	30
East South Central	2,115	2,052	3.0%	2,114	2,052	NM	1	0	0	0	0
Alabama	866	823	5.1%	866	823	0	0	0	0	0	0
Kentucky	416	413	0.7%	415	412	NM	1	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	833	816	2.2%	833	816	0	0	0	0	0	0
West South Central	923	602	53.3%	808	520	115	82	0	0	0	0
Arkansas	350	228	53.3%	344	224	NM	4	0	0	0	0
Louisiana	108	76	42.3%	0	0	108	76	0	0	0	0
Oklahoma	315	216	45.7%	315	216	0	0	0	0	0	0
Texas	151	82	83.2%	149	79	1	3	0	0	0	0
Mountain	2,945	3,297	-10.7%	2,827	3,163	116	132	2	2	0	0
Arizona	621	669	-7.1%	621	669	0	0	0	0	0	0
Colorado	157	190	-17.1%	134	163	NM	25	2	2	0	0
Idaho	914	1,044	-12.4%	842	962	72	82	0	0	0	0
Montana	889	1,011	-12.1%	875	995	NM	16	0	0	0	0
Nevada	183	179	2.3%	176	172	NM	7	0	0	0	0
New Mexico	NM	16	NM	NM	16	0	0	0	0	0	0
Utah	77	87	-11.8%	77	87	0	0	0	0	0	0
Wyoming	89	101	-12.0%	87	99	2	2	0	0	0	0
Pacific Contiguous	11,149	10,968	1.7%	10,946	10,710	203	257	NM	1	0	0
California	2,627	3,787	-30.6%	2,478	3,577	149	210	NM	1	0	0
Oregon	2,358	1,875	25.7%	2,335	1,856	NM	20	0	0	0	0
Washington	6,165	5,305	16.2%	6,133	5,278	NM	27	0	0	0	0
Pacific Noncontiguous	150	139	8.1%	133	121	0	2	NM	10	NM	5
Alaska	145	131	10.8%	133	120	0	0	NM	10	0	0
Hawaii	NM	8	NM	0	1	0	2	0	0	NM	5
U.S. Total	24,228	22,579	7.3%	22,279	20,913	1,852	1,592	NM	15	80	59

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	5,546	5,725	-3.1%	775	794	4,687	4,843	4	4	80	84
Connecticut	302	321	-6.0%	22	29	280	292	0	0	0	0
Maine	2,489	2,599	-4.2%	NM	3	2,407	2,512	0	0	80	84
Massachusetts	703	725	-3.0%	144	140	556	581	4	4	0	0
New Hampshire	1,085	1,086	-0.1%	256	270	829	816	0	0	0	0
Rhode Island	3	3	5.5%	0	0	3	3	0	0	0	0
Vermont	964	992	-2.8%	351	352	613	639	0	0	0	0
Middle Atlantic	23,890	22,649	5.5%	17,592	16,777	6,252	5,824	5	5	42	43
New Jersey	12	24	-49.2%	0	0	12	24	0	0	0	0
New York	21,360	20,284	5.3%	17,523	16,696	3,790	3,541	5	5	42	43
Pennsylvania	2,518	2,341	7.6%	69	82	2,449	2,259	0	0	0	0
East North Central	3,975	3,314	19.9%	3,514	2,921	370	313	0	1	91	79
Illinois	102	81	25.6%	36	26	66	54	0	1	0	0
Indiana	192	169	13.4%	192	169	0	0	0	0	0	0
Michigan	1,305	1,089	19.8%	1,208	1,007	90	76	0	0	NM	7
Ohio	295	266	11.1%	199	180	96	85	0	0	0	0
Wisconsin	2,080	1,709	21.7%	1,879	1,539	118	97	0	0	83	72
West North Central	12,881	12,170	5.8%	12,639	11,939	191	166	0	0	51	65
Iowa	626	586	6.9%	621	580	5	6	0	0	0	0
Kansas	24	12	103.4%	0	0	24	12	0	0	0	0
Minnesota	815	772	5.5%	602	559	162	148	0	0	51	65
Missouri	1,577	1,642	-3.9%	1,577	1,642	0	0	0	0	0	0
Nebraska	1,079	988	9.2%	1,079	988	0	0	0	0	0	0
North Dakota	2,511	2,341	7.2%	2,511	2,341	0	0	0	0	0	0
South Dakota	6,249	5,829	7.2%	6,249	5,829	0	0	0	0	0	0
South Atlantic	14,071	14,430	-2.5%	11,759	11,712	1,886	2,257	12	14	413	447
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	144	164	-11.7%	144	164	0	0	0	0	0	0
Georgia	3,011	2,989	0.8%	2,985	2,968	NM	8	0	0	13	13
Maryland	1,427	1,774	-19.6%	0	0	1,427	1,774	0	0	0	0
North Carolina	4,773	4,727	1.0%	4,718	4,673	40	42	10	12	NM	0
South Carolina	2,317	2,298	0.8%	2,265	2,242	49	54	3	2	0	0
Virginia	1,186	1,162	2.1%	1,132	1,104	53	58	0	0	0	0
West Virginia	1,212	1,317	-7.9%	515	562	303	320	0	0	394	435
East South Central	18,866	18,339	2.9%	18,860	18,332	NM	6	0	0	0	0
Alabama	8,578	8,141	5.4%	8,578	8,141	0	0	0	0	0	0
Kentucky	3,027	2,930	3.3%	3,021	2,924	NM	6	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7,262	7,268	-0.1%	7,262	7,268	0	0	0	0	0	0
West South Central	8,029	8,634	-7.0%	7,022	7,490	1,006	1,143	NM	1	0	0
Arkansas	3,046	3,285	-7.3%	3,007	3,254	39	30	0	0	0	0
Louisiana	947	1,084	-12.6%	0	0	947	1,084	0	0	0	0
Oklahoma	2,753	3,098	-11.1%	2,753	3,098	0	0	0	0	0	0
Texas	1,283	1,168	9.9%	1,262	1,138	19	28	NM	1	0	0
Mountain	25,198	23,583	6.9%	24,166	22,650	1,022	923	10	9	0	0
Arizona	4,514	4,366	3.4%	4,514	4,366	0	0	0	0	0	0
Colorado	1,414	1,326	6.6%	1,224	1,156	179	161	10	9	0	0
Idaho	8,232	7,470	10.2%	7,580	6,880	652	590	0	0	0	0
Montana	8,010	7,233	10.7%	7,887	7,121	123	112	0	0	0	0
Nevada	1,398	1,722	-18.8%	1,344	1,677	53	44	0	0	0	0
New Mexico	130	114	13.9%	130	114	0	0	0	0	0	0
Utah	703	633	11.1%	696	624	7	9	0	0	0	0
Wyoming	798	719	11.0%	791	712	8	7	0	0	0	0
Pacific Contiguous	95,046	99,276	-4.3%	93,618	97,201	1,421	2,062	NM	12	0	0
California	16,448	29,797	-44.8%	15,510	28,154	932	1,630	NM	12	0	0
Oregon	23,895	21,558	10.8%	23,693	21,373	202	185	0	0	0	0
Washington	54,702	47,921	14.2%	54,416	47,674	286	247	0	0	0	0
Pacific Noncontiguous	1,375	1,228	11.9%	1,203	1,079	16	13	111	94	45	42
Alaska	1,309	1,165	12.4%	1,198	1,071	0	0	111	94	0	0
Hawaii	66	63	4.1%	5	7	16	13	0	0	45	42
U.S. Total	208,876	209,346	-0.2%	191,148	190,897	16,857	17,549	150	140	721	760

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	955	852	12.1%	60	81	783	654	12	12	100	104
Connecticut	89	84	5.9%	0	0	88	83	NM	1	NM	0
Maine	344	293	17.4%	0	0	242	186	3	4	99	104
Massachusetts	256	223	14.7%	15	10	235	210	5	3	NM	0
New Hampshire	131	134	-1.9%	0	26	128	104	4	4	0	0
Rhode Island	49	34	44.4%	0	0	49	34	0	0	0	0
Vermont	85	83	2.3%	44	45	41	38	0	0	0	0
Middle Atlantic	1,254	1,049	19.6%	9	8	1,138	934	61	60	47	47
New Jersey	225	197	14.5%	9	8	186	159	29	29	NM	1
New York	604	492	22.7%	0	0	568	458	20	18	15	16
Pennsylvania	425	360	18.1%	0	0	383	317	11	13	31	30
East North Central	2,297	1,723	33.3%	401	247	1,771	1,338	14	13	112	126
Illinois	854	603	41.7%	12	10	842	592	NM	1	0	0
Indiana	386	310	24.5%	51	44	327	259	2	2	5	5
Michigan	620	459	35.1%	193	112	380	289	4	4	42	54
Ohio	175	164	6.9%	NM	1	147	136	1	1	25	25
Wisconsin	262	187	39.9%	142	79	75	62	NM	5	39	42
West North Central	7,006	4,865	44.0%	2,200	1,436	4,724	3,353	20	16	63	60
Iowa	2,113	1,168	80.9%	1,520	814	584	343	3	4	6	8
Kansas	1,696	1,346	26.0%	134	121	1,561	1,224	NM	1	0	0
Minnesota	1,107	833	32.8%	184	136	857	640	9	6	56	52
Missouri	260	169	53.4%	4	4	250	162	6	4	0	0
Nebraska	656	422	55.6%	26	23	628	397	1	1	0	0
North Dakota	797	775	2.9%	286	299	511	475	NM	0	0	0
South Dakota	377	151	148.9%	45	38	332	113	0	0	0	0
South Atlantic	4,063	3,329	22.1%	867	556	2,366	1,833	37	41	793	898
Delaware	12	10	16.7%	NM	1	10	8	0	0	NM	1
District of Columbia	6	6	-3.0%	0	0	NM	1	4	5	0	0
Florida	993	690	43.8%	591	346	249	186	4	4	149	155
Georgia	878	688	27.6%	39	30	514	281	NM	0	324	378
Maryland	130	118	10.3%	NM	1	126	114	4	3	0	0
North Carolina	1,081	999	8.2%	58	42	926	840	11	16	86	101
South Carolina	394	279	41.3%	8	7	246	140	0	0	140	131
Virginia	451	446	1.1%	169	130	175	171	13	13	93	132
West Virginia	117	92	27.1%	0	0	117	92	0	0	0	0
East South Central	632	672	-6.0%	15	15	130	116	NM	0	487	540
Alabama	326	344	-5.4%	3	2	39	40	0	0	284	302
Kentucky	38	43	-11.3%	12	12	1	1	0	0	25	30
Mississippi	171	162	5.6%	0	0	45	31	0	0	126	131
Tennessee	97	122	-21.0%	NM	0	45	44	NM	0	51	78
West South Central	10,184	9,493	7.3%	165	174	9,657	8,916	6	6	356	397
Arkansas	112	133	-16.2%	NM	0	30	30	2	2	80	101
Louisiana	182	189	-3.7%	NM	0	8	8	0	0	174	180
Oklahoma	2,012	2,049	-1.8%	99	107	1,883	1,915	0	0	29	27
Texas	7,879	7,122	10.6%	65	67	7,736	6,963	4	4	73	89
Mountain	4,407	4,202	4.9%	527	483	3,745	3,643	45	44	89	32
Arizona	624	648	-3.7%	73	82	549	565	NM	2	0	0
Colorado	1,078	940	14.7%	226	178	849	760	3	2	0	0
Idaho	288	295	-2.2%	NM	13	238	250	2	2	36	29
Montana	166	166	0.3%	NM	17	149	147	0	0	2	2
Nevada	898	878	2.3%	20	19	841	821	37	38	0	0
New Mexico	661	624	5.9%	38	35	622	589	NM	0	0	0
Utah	338	339	-0.2%	13	10	324	329	1	0	0	0
Wyoming	353	313	13.0%	130	129	172	183	0	0	51	0
Pacific Contiguous	7,321	8,115	-9.8%	693	731	6,337	7,069	84	89	207	226
California	5,686	6,326	-10.1%	212	226	5,321	5,943	81	85	72	72
Oregon	960	945	1.7%	157	145	752	751	2	2	49	47
Washington	675	844	-20.1%	324	360	264	375	1	1	85	107
Pacific Noncontiguous	140	96	45.4%	18	14	105	64	17	19	NM	0
Alaska	NM	13	NM	NM	6	NM	4	3	4	NM	0
Hawaii	126	83	51.6%	11	8	102	60	14	15	0	0
U.S. Total	38,259	34,395	11.2%	4,953	3,745	30,756	27,921	296	300	2,253	2,429

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	7,855	7,420	5.9%	509	568	6,478	5,941	94	105	773	806
Connecticut	678	603	12.6%	2	2	672	597	4	4	NM	0
Maine	3,117	3,117	0.0%	0	0	2,327	2,284	23	31	767	802
Massachusetts	1,905	1,650	15.4%	121	84	1,741	1,526	37	37	6	5
New Hampshire	1,042	1,101	-5.3%	21	165	998	908	24	28	0	0
Rhode Island	413	305	35.3%	0	0	408	300	5	5	0	0
Vermont	700	644	8.6%	366	317	333	326	1	1	0	0
Middle Atlantic	11,025	9,508	16.0%	64	58	10,139	8,627	468	439	355	384
New Jersey	1,664	1,401	18.8%	64	58	1,372	1,135	221	201	7	5
New York	5,342	4,556	17.3%	0	0	5,086	4,293	145	140	111	123
Pennsylvania	4,020	3,552	13.2%	0	0	3,682	3,198	101	98	237	256
East North Central	25,712	23,750	8.3%	3,593	3,063	21,051	19,544	114	128	954	1,016
Illinois	10,914	9,623	13.4%	100	87	10,809	9,531	NM	5	0	0
Indiana	4,677	4,590	1.9%	376	328	4,243	4,205	15	14	43	44
Michigan	5,806	5,484	5.9%	1,906	1,576	3,504	3,434	32	44	364	430
Ohio	2,027	1,914	5.9%	17	13	1,780	1,693	11	11	219	197
Wisconsin	2,288	2,139	6.9%	1,194	1,059	716	681	51	54	327	345
West North Central	65,142	51,782	25.8%	21,342	16,882	43,219	34,312	118	119	463	470
Iowa	20,296	15,560	30.4%	14,375	10,723	5,859	4,770	26	28	36	39
Kansas	15,524	12,914	20.2%	1,243	1,175	14,270	11,729	11	11	0	0
Minnesota	9,897	8,385	18.0%	1,834	1,604	7,598	6,307	41	45	425	429
Missouri	2,307	1,939	19.0%	25	28	2,251	1,882	29	28	2	1
Nebraska	5,502	4,405	24.9%	266	252	5,228	4,145	9	7	0	0
North Dakota	8,312	6,923	20.1%	3,128	2,679	5,181	4,244	NM	0	NM	0
South Dakota	3,304	1,656	99.5%	471	421	2,833	1,235	0	0	0	0
South Atlantic	30,746	25,402	21.0%	6,167	4,296	17,543	14,008	284	314	6,752	6,784
Delaware	91	82	10.1%	5	5	76	67	3	4	6	7
District of Columbia	50	43	17.8%	0	0	13	6	37	37	0	0
Florida	7,378	5,678	29.9%	4,355	2,804	1,759	1,606	33	33	1,232	1,234
Georgia	6,495	4,987	30.2%	253	220	3,499	1,998	2	2	2,741	2,767
Maryland	1,016	961	5.8%	7	6	982	883	27	23	0	49
North Carolina	8,318	7,291	14.1%	432	296	7,008	6,101	83	118	795	776
South Carolina	2,775	2,033	36.5%	59	60	1,662	1,008	0	0	1,054	965
Virginia	3,346	3,255	2.8%	1,056	905	1,267	1,265	98	98	925	987
West Virginia	1,277	1,073	19.1%	0	0	1,277	1,073	0	0	0	0
East South Central	4,961	4,728	4.9%	112	107	947	826	4	3	3,899	3,791
Alabama	2,600	2,489	4.4%	19	17	283	289	0	0	2,297	2,184
Kentucky	278	272	2.2%	92	90	7	7	0	0	179	175
Mississippi	1,258	1,111	13.2%	0	0	320	231	0	0	938	881
Tennessee	826	855	-3.4%	NM	0	336	300	4	3	485	552
West South Central	90,912	80,405	13.1%	1,205	1,172	86,832	76,002	57	57	2,817	3,174
Arkansas	823	1,116	-26.3%	NM	1	207	202	17	8	597	905
Louisiana	1,447	1,469	-1.5%	NM	1	60	53	0	0	1,386	1,414
Oklahoma	20,007	18,421	8.6%	962	927	18,831	17,299	0	0	214	196
Texas	68,636	59,398	15.6%	241	244	67,735	58,447	40	49	620	659
Mountain	37,001	33,219	11.4%	4,291	3,993	31,890	28,581	402	384	419	262
Arizona	4,691	4,326	8.4%	533	534	4,147	3,780	11	11	0	0
Colorado	9,092	8,038	13.1%	1,620	1,555	7,449	6,469	21	12	2	2
Idaho	2,621	2,487	5.4%	122	116	2,248	2,109	18	17	233	244
Montana	1,757	1,549	13.5%	164	163	1,579	1,373	0	0	14	14
Nevada	6,856	6,232	10.0%	146	122	6,368	5,772	341	335	2	2
New Mexico	6,245	5,361	16.5%	272	215	5,971	5,145	NM	2	0	0
Utah	2,495	2,377	4.9%	93	80	2,393	2,291	9	6	0	0
Wyoming	3,244	2,849	13.9%	1,342	1,208	1,735	1,641	0	0	167	0
Pacific Contiguous	57,418	54,850	4.7%	5,751	4,959	49,385	47,683	660	622	1,622	1,586
California	43,286	42,750	1.3%	1,491	1,480	40,634	40,166	631	594	530	510
Oregon	7,609	6,134	24.1%	1,116	859	6,108	4,925	18	18	366	332
Washington	6,523	5,966	9.3%	3,144	2,620	2,642	2,592	11	10	726	744
Pacific Noncontiguous	1,130	823	37.4%	148	128	849	548	133	146	NM	0
Alaska	134	118	14.1%	70	58	38	35	26	24	NM	0
Hawaii	996	705	41.3%	78	69	810	513	108	122	0	0
U.S. Total	331,903	291,887	13.7%	43,183	35,226	268,332	236,071	2,335	2,316	18,054	18,273

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	-52	-42	22.2%	0	0	-52	-42	0	0	0	0
Connecticut	1	0	128.8%	0	0	1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-52	-43	22.9%	0	0	-52	-43	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	-120	-119	0.5%	-63	-53	-57	-66	0	0	0	0
New Jersey	-15	-14	4.4%	-15	-14	0	0	0	0	0	0
New York	-48	-39	23.4%	-48	-39	0	0	0	0	0	0
Pennsylvania	-57	-66	-13.7%	0	0	-57	-66	0	0	0	0
East North Central	-122	-98	25.0%	-122	-98	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	-122	-98	25.0%	-122	-98	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	-16	2	NM	-16	2	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	-16	2	NM	-16	2	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	-374	-356	5.1%	-374	-356	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	-93	-120	-23.1%	-93	-120	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	-95	-89	6.2%	-95	-89	0	0	0	0	0	0
Virginia	-187	-146	27.7%	-187	-146	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-93	-68	37.7%	-93	-68	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	-93	-68	37.7%	-93	-68	0	0	0	0	0	0
West South Central	-10	-8	21.4%	-10	-8	0	0	0	0	0	0
Arkansas	2	2	-5.5%	2	2	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-12	-11	15.2%	-12	-11	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	13	14	-5.8%	13	14	0	0	0	0	0	0
Arizona	34	32	7.7%	34	32	0	0	0	0	0	0
Colorado	-21	-18	17.8%	-21	-18	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	-10	97	-110.2%	-10	97	0	0	0	0	0	0
California	-12	95	-112.8%	-12	95	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	2	19.4%	2	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	-784	-579	35.3%	-675	-470	-109	-109	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	-267	-303	-11.7%	0	0	-267	-303	0	0	0	0
Connecticut	1	2	-68.7%	0	0	1	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-268	-305	-12.2%	0	0	-268	-305	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	-704	-700	0.7%	-308	-295	-396	-404	0	0	0	0
New Jersey	-97	-81	19.4%	-97	-81	0	0	0	0	0	0
New York	-211	-214	-1.5%	-211	-214	0	0	0	0	0	0
Pennsylvania	-396	-404	-2.0%	0	0	-396	-404	0	0	0	0
East North Central	-595	-508	17.1%	-595	-508	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	-595	-508	17.1%	-595	-508	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	348	-99.3%	2	348	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	348	-99.3%	2	348	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-1,482	-1,526	-2.9%	-1,482	-1,526	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	-228	-200	13.8%	-228	-200	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	-477	-593	-19.5%	-477	-593	0	0	0	0	0	0
Virginia	-778	-734	6.0%	-778	-734	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-518	-417	24.4%	-518	-417	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	-518	-417	24.4%	-518	-417	0	0	0	0	0	0
West South Central	-22	-16	40.1%	-22	-16	0	0	0	0	0	0
Arkansas	55	49	13.0%	55	49	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-77	-65	19.6%	-77	-65	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-23	-103	-77.7%	-23	-103	0	0	0	0	0	0
Arizona	89	27	233.6%	89	27	0	0	0	0	0	0
Colorado	-112	-130	-13.4%	-112	-130	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	-27	45	-159.1%	-27	45	0	0	0	0	0	0
California	-42	41	-202.1%	-42	41	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	16	4	301.3%	16	4	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	-3,636	-3,179	14.4%	-2,973	-2,472	-664	-707	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	160	168	-4.4%	0	0	146	153	4	5	10	11
Connecticut	50	52	-2.4%	0	0	50	52	0	0	0	0
Maine	26	30	-11.5%	0	0	12	14	4	5	10	11
Massachusetts	79	82	-3.2%	0	0	79	82	0	0	0	0
New Hampshire	5	5	-4.2%	0	0	5	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	-100.0%	0	0	0	0	0	0	0	0
Middle Atlantic	215	227	-5.1%	0	0	169	175	45	46	2	6
New Jersey	49	56	-13.2%	0	0	32	35	14	15	2	6
New York	90	89	1.7%	0	0	67	68	23	21	0	0
Pennsylvania	77	82	-7.1%	0	0	69	72	8	11	0	0
East North Central	84	78	7.7%	1	2	6	5	7	7	69	64
Illinois	22	24	-10.9%	0	0	-1	-1	0	0	23	25
Indiana	46	37	26.3%	0	0	0	0	2	2	44	35
Michigan	12	12	1.4%	0	0	7	6	5	5	0	1
Ohio	1	1	-24.3%	0	0	0	0	0	0	1	1
Wisconsin	3	4	-26.1%	1	2	0	0	0	0	NM	2
West North Central	34	39	-12.8%	18	17	13	14	4	4	0	4
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	-0.2%	0	0	0	0	0	0	0	0
Minnesota	30	35	-14.4%	13	13	13	14	4	4	0	4
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	4	-1.1%	4	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	378	399	-5.1%	0	0	230	232	14	15	135	152
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	247	254	-3.1%	0	0	139	133	0	0	108	122
Georgia	10	8	19.8%	0	0	0	0	0	0	10	8
Maryland	35	36	-3.9%	0	0	35	36	0	0	0	0
North Carolina	36	47	-24.4%	0	0	22	29	0	0	14	18
South Carolina	4	4	-20.6%	0	0	1	1	0	0	3	4
Virginia	49	48	2.1%	0	0	35	34	14	15	0	0
West Virginia	-2	-1	217.2%	0	0	-2	0	0	0	0	0
East South Central	8	7	16.4%	7	6	0	0	0	0	1	0
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	7	6	8.0%	7	6	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	0	130.4%	0	0	0	0	0	0	1	0
West South Central	78	109	-28.1%	0	18	4	7	0	0	74	84
Arkansas	0	0	-216.8%	0	0	0	0	0	0	0	0
Louisiana	33	66	-50.3%	0	18	0	0	0	0	33	48
Oklahoma	1	1	40.6%	0	0	0	0	0	0	1	1
Texas	44	42	4.8%	0	0	4	7	0	0	40	35
Mountain	38	62	-38.9%	7	7	19	26	0	0	12	29
Arizona	0	0	-93.3%	0	0	0	0	0	0	0	0
Colorado	5	6	-12.7%	0	0	1	2	0	0	4	4
Idaho	4	6	-28.9%	0	0	0	0	0	0	4	6
Montana	19	24	-22.4%	0	0	19	24	0	0	0	0
Nevada	2	3	-22.5%	2	3	0	0	0	0	0	0
New Mexico	0	0	-84.0%	0	0	0	0	0	0	0	0
Utah	4	18	-74.6%	4	4	0	0	0	0	0	13
Wyoming	4	7	-44.1%	0	0	0	0	0	0	4	7
Pacific Contiguous	72	86	-16.1%	-1	-1	24	26	0	0	49	61
California	63	76	-18.1%	-1	-1	15	16	0	0	49	61
Oregon	4	4	-4.6%	0	0	4	4	0	0	0	0
Washington	5	5	3.4%	0	0	5	5	0	0	0	0
Pacific Noncontiguous	28	36	-23.9%	11	18	0	0	17	18	0	0
Alaska	0	0	-35.0%	0	0	0	0	0	0	0	0
Hawaii	28	37	-24.0%	11	18	0	0	17	18	0	0
U.S. Total	1,096	1,211	-9.5%	42	66	612	638	90	94	352	413

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	1,249	1,250	-0.1%	0	0	1,137	1,128	29	38	83	85
Connecticut	397	384	3.4%	0	0	397	384	0	0	0	0
Maine	216	237	-8.5%	0	0	105	113	29	38	83	86
Massachusetts	599	594	0.8%	0	0	599	595	0	0	0	-1
New Hampshire	37	36	1.7%	0	0	37	36	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	-100.0%	0	0	0	0	0	0	0	0
Middle Atlantic	1,666	1,643	1.4%	0	0	1,299	1,267	348	340	19	36
New Jersey	389	401	-2.8%	0	0	260	259	111	107	19	36
New York	674	618	9.1%	0	0	511	459	163	159	0	0
Pennsylvania	603	624	-3.5%	0	0	528	550	75	75	0	0
East North Central	607	574	5.7%	12	13	46	52	54	68	495	442
Illinois	167	174	-4.2%	0	0	-9	-8	0	0	176	183
Indiana	308	237	29.7%	0	0	0	0	16	15	291	222
Michigan	100	128	-22.0%	0	0	55	62	37	52	8	14
Ohio	7	6	10.8%	-1	-2	0	-2	0	0	7	10
Wisconsin	26	29	-10.4%	13	14	0	0	0	0	13	14
West North Central	279	272	2.7%	126	125	100	92	26	19	28	36
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	3	3	-0.6%	0	0	0	0	0	0	3	3
Minnesota	242	236	2.5%	92	93	100	92	26	19	24	32
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	34	32	4.7%	34	32	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,929	3,142	-6.8%	-1	-1	1,756	1,824	109	111	1,066	1,209
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	1,952	2,106	-7.3%	-1	-1	1,105	1,131	0	0	848	976
Georgia	55	64	-15.1%	0	0	0	0	0	0	55	64
Maryland	195	212	-8.3%	0	0	195	212	0	0	0	0
North Carolina	339	364	-6.9%	0	0	200	219	0	0	139	145
South Carolina	29	28	3.3%	0	0	5	5	0	0	24	24
Virginia	371	372	-0.2%	0	0	262	261	109	111	0	0
West Virginia	-11	-4	144.7%	0	0	-11	-4	0	0	0	0
East South Central	49	34	43.3%	41	27	0	0	0	0	8	8
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	41	27	55.0%	41	27	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	8	8	1.7%	0	0	0	0	0	0	8	8
West South Central	582	679	-14.3%	-1	18	38	58	0	0	544	602
Arkansas	3	3	6.1%	0	0	0	0	0	0	3	3
Louisiana	287	349	-17.7%	0	18	0	0	0	0	287	331
Oklahoma	4	5	-9.4%	0	1	0	0	0	0	4	4
Texas	288	322	-10.8%	-1	0	38	58	0	0	250	264
Mountain	375	460	-18.4%	53	46	153	203	0	0	169	210
Arizona	-2	-3	-41.2%	0	0	-2	-3	0	0	0	0
Colorado	42	38	9.0%	0	-1	11	11	0	0	31	28
Idaho	45	45	-0.8%	0	0	0	0	0	0	45	45
Montana	144	195	-26.2%	0	0	144	195	0	0	0	0
Nevada	19	15	25.8%	19	15	0	0	0	0	0	0
New Mexico	-1	-1	-2.7%	-1	-1	0	0	0	0	0	0
Utah	75	122	-39.0%	35	32	0	0	0	0	40	90
Wyoming	53	47	13.6%	0	0	0	0	0	0	53	47
Pacific Contiguous	530	568	-6.6%	-8	-11	184	171	-1	0	355	409
California	455	505	-9.8%	-7	-11	108	107	-1	0	355	409
Oregon	28	20	42.8%	0	0	29	20	0	0	0	0
Washington	47	43	7.4%	0	0	47	44	0	0	0	0
Pacific Noncontiguous	217	255	-14.6%	86	105	0	0	131	150	0	0
Alaska	-2	-3	-30.5%	-2	-3	0	0	0	0	0	0
Hawaii	219	257	-14.8%	88	108	0	0	131	150	0	0
U.S. Total	8,485	8,877	-4.4%	310	321	4,713	4,795	696	724	2,765	3,037

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	255	166	54.0%	NM	10	236	154	NM	1	NM	0
Connecticut	NM	1	NM	0	0	NM	1	0	0	0	0
Maine	160	108	48.3%	0	0	160	108	0	0	0	0
Massachusetts	NM	9	NM	NM	2	NM	6	NM	1	NM	0
New Hampshire	37	19	93.5%	0	0	37	19	0	0	0	0
Rhode Island	13	10	30.9%	0	0	13	10	0	0	0	0
Vermont	28	19	46.4%	NM	8	15	11	0	0	0	0
Middle Atlantic	577	431	33.6%	0	0	576	431	NM	0	NM	0
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	326	255	27.9%	0	0	325	254	NM	0	NM	0
Pennsylvania	249	176	41.9%	0	0	249	176	0	0	0	0
East North Central	1,743	1,196	45.7%	280	152	1,454	1,040	NM	1	NM	3
Illinois	805	562	43.3%	NM	0	804	561	NM	0	0	0
Indiana	304	232	31.0%	0	0	304	232	0	0	0	0
Michigan	404	241	67.3%	183	101	220	140	0	0	0	0
Ohio	99	85	16.8%	NM	0	91	81	0	0	NM	3
Wisconsin	130	76	71.9%	95	50	34	25	NM	1	0	0
West North Central	6,640	4,532	46.5%	2,168	1,409	4,468	3,120	NM	2	0	0
Iowa	2,092	1,142	83.1%	1,518	810	573	332	0	0	0	0
Kansas	1,684	1,339	25.8%	134	121	1,549	1,217	NM	1	0	0
Minnesota	810	566	43.2%	166	122	642	443	NM	1	0	0
Missouri	237	146	62.0%	0	0	237	146	0	0	0	0
Nebraska	643	412	55.9%	NM	18	624	394	0	0	0	0
North Dakota	797	775	2.9%	286	299	511	475	NM	0	0	0
South Dakota	376	151	149.1%	45	38	332	113	0	0	0	0
South Atlantic	174	151	15.6%	0	0	174	151	0	0	0	0
Delaware	0	0	3.2%	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	35	35	0.1%	0	0	35	35	0	0	0	0
North Carolina	22	23	-7.0%	0	0	22	23	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	117	92	27.1%	0	0	117	92	0	0	0	0
East South Central	NM	3	NM	0	0	NM	3	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	3	NM	0	0	NM	3	0	0	0	0
West South Central	8,643	8,502	1.7%	109	119	8,530	8,378	4	3	NM	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1,972	2,013	-2.0%	91	100	1,882	1,913	0	0	0	0
Texas	6,670	6,489	2.8%	18	19	6,648	6,465	4	3	NM	1
Mountain	2,197	2,015	9.0%	381	335	1,764	1,680	NM	0	51	0
Arizona	36	39	-8.2%	0	0	36	39	0	0	0	0
Colorado	916	789	16.1%	225	177	690	611	0	0	0	0
Idaho	175	178	-1.8%	NM	11	164	167	0	0	0	0
Montana	161	161	0.4%	NM	17	146	143	0	0	0	0
Nevada	21	23	-7.7%	0	0	21	23	0	0	0	0
New Mexico	484	469	3.2%	0	0	483	469	NM	0	0	0
Utah	69	67	3.6%	0	0	69	67	0	0	0	0
Wyoming	335	290	15.4%	130	129	154	161	0	0	51	0
Pacific Contiguous	2,293	2,911	-21.2%	537	565	1,756	2,344	0	0	1	1
California	1,009	1,469	-31.3%	88	102	920	1,366	0	0	1	1
Oregon	736	753	-2.3%	151	139	585	615	0	0	0	0
Washington	548	688	-20.3%	297	325	251	363	0	0	0	0
Pacific Noncontiguous	46	45	2.4%	NM	6	39	39	0	0	0	0
Alaska	NM	9	NM	NM	6	NM	4	0	0	0	0
Hawaii	35	35	-0.3%	0	0	35	35	0	0	0	0
U.S. Total	22,571	19,951	13.1%	3,498	2,597	19,001	17,339	12	9	59	5

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.B. Utility Scale Facility Net Generation from Wind

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	2,663	2,365	12.6%	168	140	2,472	2,204	20	20	NM	1
Connecticut	NM	8	NM	0	0	NM	8	0	0	0	0
Maine	1,682	1,582	6.3%	0	0	1,682	1,582	0	0	0	0
Massachusetts	169	133	26.9%	42	31	110	86	15	15	NM	1
New Hampshire	375	271	38.2%	0	0	375	271	0	0	0	0
Rhode Island	155	132	17.3%	0	0	150	127	5	5	0	0
Vermont	273	238	14.6%	126	108	147	130	0	0	0	0
Middle Atlantic	5,907	5,066	16.6%	0	0	5,903	5,064	NM	2	NM	1
New Jersey	16	14	11.8%	0	0	16	14	0	0	0	0
New York	3,303	2,924	13.0%	0	0	3,299	2,922	NM	2	NM	1
Pennsylvania	2,588	2,127	21.7%	0	0	2,588	2,127	0	0	0	0
East North Central	21,451	19,649	9.2%	2,813	2,348	18,559	17,229	22	19	58	52
Illinois	10,550	9,296	13.5%	9	8	10,538	9,285	NM	3	0	0
Indiana	4,063	4,035	0.7%	0	0	4,063	4,035	0	0	0	0
Michigan	4,200	3,756	11.8%	1,836	1,510	2,364	2,247	0	0	0	0
Ohio	1,275	1,351	-5.6%	11	7	1,209	1,294	2	2	53	48
Wisconsin	1,363	1,211	12.6%	957	823	385	369	17	14	4	5
West North Central	62,608	49,606	26.2%	21,140	16,674	41,434	32,904	34	28	0	0
Iowa	20,137	15,403	30.7%	14,361	10,707	5,773	4,694	3	2	0	0
Kansas	15,440	12,864	20.0%	1,241	1,173	14,187	11,680	11	11	0	0
Minnesota	7,858	6,650	18.2%	1,729	1,494	6,112	5,142	17	15	0	0
Missouri	2,155	1,786	20.7%	0	0	2,155	1,786	0	0	0	0
Nebraska	5,405	4,325	25.0%	210	200	5,195	4,125	0	0	0	0
North Dakota	8,311	6,923	20.1%	3,128	2,679	5,181	4,244	NM	0	0	0
South Dakota	3,302	1,655	99.6%	471	421	2,832	1,234	0	0	0	0
South Atlantic	2,034	1,761	15.5%	0	0	2,030	1,757	3	3	0	0
Delaware	3	3	2.3%	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	366	340	7.6%	0	0	366	340	0	0	0	0
North Carolina	387	344	12.4%	0	0	387	344	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	1,277	1,073	19.1%	0	0	1,277	1,073	0	0	0	0
East South Central	38	25	54.2%	0	0	38	25	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	38	25	54.2%	0	0	38	25	0	0	0	0
West South Central	82,267	73,538	11.9%	1,085	1,058	81,140	72,438	37	35	NM	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	19,729	18,169	8.6%	912	883	18,817	17,286	0	0	0	0
Texas	62,538	55,369	12.9%	173	175	62,323	55,153	37	35	NM	6
Mountain	20,683	18,426	12.2%	3,231	3,028	17,280	15,393	NM	3	169	2
Arizona	354	361	-1.9%	0	0	354	361	0	0	0	0
Colorado	7,898	7,059	11.9%	1,613	1,552	6,282	5,505	NM	1	2	2
Idaho	1,819	1,662	9.4%	112	106	1,707	1,556	0	0	0	0
Montana	1,720	1,514	13.6%	164	163	1,556	1,351	0	0	0	0
Nevada	210	215	-2.0%	0	0	210	215	0	0	0	0
New Mexico	5,008	4,340	15.4%	0	0	5,006	4,338	NM	2	0	0
Utah	554	561	-1.4%	0	0	554	561	0	0	0	0
Wyoming	3,120	2,713	15.0%	1,342	1,208	1,611	1,505	0	0	167	0
Pacific Contiguous	20,863	20,526	1.6%	4,605	3,860	16,251	16,658	4	4	4	4
California	9,307	10,702	-13.0%	590	610	8,708	10,084	4	4	4	4
Oregon	6,075	4,885	24.4%	1,069	814	5,006	4,071	0	0	0	0
Washington	5,482	4,940	11.0%	2,945	2,436	2,537	2,503	0	0	0	0
Pacific Noncontiguous	452	440	2.8%	70	58	382	381	0	0	0	0
Alaska	108	93	15.8%	70	58	38	35	0	0	0	0
Hawaii	344	346	-0.8%	0	0	344	346	0	0	0	0
U.S. Total	218,966	191,400	14.4%	33,112	27,166	185,490	164,053	125	114	239	66

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	489	526	-7.1%	25	60	355	353	9	10	99	104
Connecticut	65	69	-5.8%	0	0	65	69	0	0	0	0
Maine	184	185	-0.6%	0	0	81	77	3	4	99	104
Massachusetts	89	90	-1.0%	0	0	87	88	3	2	0	0
New Hampshire	94	115	-17.7%	0	26	91	85	4	4	0	0
Rhode Island	19	18	4.0%	0	0	19	18	0	0	0	0
Vermont	37	49	-24.0%	25	34	NM	15	0	0	0	0
Middle Atlantic	393	421	-6.7%	0	0	307	335	42	42	44	44
New Jersey	63	68	-8.1%	0	0	50	55	13	13	0	0
New York	175	178	-1.7%	0	0	142	146	19	17	14	15
Pennsylvania	155	175	-11.4%	0	0	115	133	10	12	30	29
East North Central	455	438	4.0%	86	65	255	241	10	10	105	122
Illinois	39	34	15.5%	11	9	28	24	0	0	0	0
Indiana	38	38	2.0%	28	27	3	4	2	2	5	5
Michigan	199	199	0.0%	0	0	153	142	4	4	42	54
Ohio	56	60	-6.7%	0	0	37	38	1	1	18	22
Wisconsin	123	107	14.5%	46	29	34	33	3	4	39	41
West North Central	157	147	6.2%	28	23	50	51	17	13	63	60
Iowa	19	24	-19.1%	1	2	9	10	3	4	6	8
Kansas	5	6	-9.4%	0	0	5	6	0	0	0	0
Minnesota	113	101	11.2%	18	13	32	31	7	5	56	52
Missouri	12	11	11.2%	2	3	4	4	6	3	0	0
Nebraska	7	5	32.3%	6	5	0	0	1	1	0	0
North Dakota	0	0	-100.0%	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,582	1,678	-5.7%	168	178	601	576	21	27	792	897
Delaware	5	5	2.0%	0	0	4	4	0	0	NM	1
District of Columbia	4	5	-24.4%	0	0	0	0	4	5	0	0
Florida	357	367	-2.5%	51	65	154	144	3	3	148	155
Georgia	469	489	-4.0%	0	0	145	111	0	0	324	378
Maryland	35	36	-1.6%	0	0	34	35	2	1	0	0
North Carolina	193	227	-14.8%	0	0	108	121	0	5	86	101
South Carolina	202	194	4.3%	7	7	56	56	0	0	140	131
Virginia	316	356	-11.3%	110	105	100	106	12	13	93	132
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	506	560	-9.6%	8	8	12	12	0	0	486	540
Alabama	288	305	-5.8%	0	0	4	4	0	0	284	302
Kentucky	34	38	-12.4%	8	8	1	1	0	0	25	30
Mississippi	127	132	-3.6%	0	0	1	1	0	0	126	131
Tennessee	57	84	-31.5%	0	0	7	7	0	0	51	77
West South Central	453	497	-8.9%	45	47	52	54	0	0	356	396
Arkansas	88	109	-19.5%	0	0	8	8	0	0	80	101
Louisiana	181	188	-3.7%	0	0	8	8	0	0	174	180
Oklahoma	31	29	8.2%	0	0	2	2	0	0	29	27
Texas	152	170	-10.6%	45	47	34	36	0	0	73	88
Mountain	96	92	3.4%	1	1	53	57	4	3	37	31
Arizona	19	20	-2.7%	0	0	19	20	0	0	0	0
Colorado	13	15	-11.9%	0	0	13	15	0	0	0	0
Idaho	48	44	8.5%	1	1	9	11	2	2	35	29
Montana	2	2	2.8%	0	0	0	0	0	0	2	2
Nevada	5	5	10.8%	0	0	5	5	0	0	0	0
New Mexico	2	2	11.2%	0	0	2	2	0	0	0	0
Utah	7	6	16.6%	0	0	5	5	1	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	738	786	-6.1%	38	47	433	446	67	71	199	221
California	523	540	-3.1%	6	6	389	399	63	67	65	67
Oregon	92	95	-2.7%	5	5	35	40	2	2	49	47
Washington	122	151	-19.1%	27	36	9	7	1	1	85	107
Pacific Noncontiguous	24	29	-16.4%	2	6	5	4	17	19	NM	0
Alaska	3	4	-9.5%	0	0	0	0	3	4	NM	0
Hawaii	21	25	-17.4%	2	6	5	4	14	15	0	0
U.S. Total	4,892	5,174	-5.5%	401	435	2,123	2,130	186	195	2,181	2,414

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	3,704	3,947	-6.1%	208	347	2,664	2,720	65	78	767	802
Connecticut	507	494	2.8%	0	0	507	494	0	0	0	0
Maine	1,429	1,530	-6.5%	0	0	639	697	23	31	767	802
Massachusetts	675	659	2.3%	0	0	658	642	17	18	0	0
New Hampshire	668	830	-19.5%	21	165	623	637	24	28	0	0
Rhode Island	143	135	6.1%	0	0	143	135	0	0	0	0
Vermont	282	300	-6.0%	187	182	94	116	1	1	0	0
Middle Atlantic	3,139	3,160	-0.7%	0	0	2,475	2,472	330	321	334	367
New Jersey	513	536	-4.3%	0	0	412	440	101	97	0	0
New York	1,314	1,260	4.3%	0	0	1,076	1,012	134	130	104	117
Pennsylvania	1,312	1,364	-3.8%	0	0	987	1,020	95	94	230	250
East North Central	3,433	3,575	-4.0%	546	539	1,911	1,976	81	99	894	962
Illinois	307	282	8.9%	90	78	217	204	0	0	0	0
Indiana	309	314	-1.4%	222	225	32	33	13	12	43	44
Michigan	1,486	1,618	-8.1%	0	0	1,091	1,145	31	43	364	430
Ohio	462	459	0.7%	0	0	292	306	5	5	165	148
Wisconsin	867	902	-3.9%	234	236	279	287	32	39	323	340
West North Central	1,113	1,106	0.7%	177	188	389	359	84	90	463	470
Iowa	141	146	-2.8%	7	10	75	71	23	26	36	39
Kansas	43	42	2.6%	0	0	43	42	0	0	0	0
Minnesota	792	785	0.9%	102	109	242	217	24	30	425	429
Missouri	77	77	-0.9%	17	20	29	29	29	27	2	1
Nebraska	60	56	6.6%	51	48	0	0	9	7	0	0
North Dakota	NM	0	NM	0	0	0	0	0	0	NM	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	12,530	12,600	-0.6%	1,043	1,269	4,569	4,341	171	210	6,747	6,779
Delaware	40	41	-1.9%	0	0	34	34	0	0	6	7
District of Columbia	37	37	1.4%	0	0	0	0	37	37	0	0
Florida	2,862	3,005	-4.8%	374	485	1,233	1,262	26	27	1,229	1,232
Georgia	3,871	3,492	10.9%	0	0	1,130	725	0	0	2,741	2,767
Maryland	213	271	-21.4%	0	0	201	211	13	11	0	49
North Carolina	1,588	1,687	-5.9%	0	0	793	873	0	39	795	776
South Carolina	1,540	1,484	3.8%	52	57	438	464	0	0	1,050	963
Virginia	2,379	2,583	-7.9%	617	727	740	772	96	97	925	987
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4,050	3,939	2.8%	60	59	96	93	0	0	3,894	3,787
Alabama	2,325	2,211	5.2%	0	0	28	27	0	0	2,297	2,184
Kentucky	244	240	2.0%	60	59	6	6	0	0	179	175
Mississippi	946	889	6.4%	0	0	9	9	0	0	938	881
Tennessee	534	599	-10.9%	0	0	54	52	0	0	481	547
West South Central	3,284	3,650	-10.0%	54	63	414	404	3	15	2,812	3,168
Arkansas	667	969	-31.2%	0	0	67	61	3	4	597	905
Louisiana	1,446	1,468	-1.5%	0	0	60	53	0	0	1,386	1,414
Oklahoma	228	209	8.8%	0	0	14	13	0	0	214	196
Texas	944	1,004	-6.0%	54	63	274	276	0	11	615	653
Mountain	716	722	-0.8%	10	10	434	431	27	23	245	257
Arizona	154	154	0.2%	0	0	154	154	0	0	0	0
Colorado	111	106	4.9%	0	0	111	106	0	0	0	0
Idaho	328	350	-6.1%	10	10	70	79	18	17	230	244
Montana	14	14	6.2%	0	0	0	0	0	0	14	14
Nevada	41	36	12.4%	0	0	41	36	0	0	0	0
New Mexico	15	15	-1.5%	0	0	15	15	0	0	0	0
Utah	52	48	10.1%	0	0	43	41	9	6	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,695	5,556	2.5%	290	273	3,296	3,223	533	507	1,575	1,553
California	4,010	3,937	1.9%	49	49	2,974	2,932	504	479	483	477
Oregon	675	625	8.1%	43	41	248	234	18	18	366	332
Washington	1,010	994	1.6%	199	183	74	57	11	10	726	744
Pacific Noncontiguous	190	225	-15.4%	18	44	38	34	133	146	NM	0
Alaska	26	24	7.3%	0	0	0	0	26	24	NM	0
Hawaii	164	200	-18.2%	18	44	38	34	108	122	0	0
U.S. Total	37,854	38,480	-1.6%	2,407	2,791	16,287	16,054	1,429	1,490	17,732	18,145

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 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	365	369	-0.9%	13	10	322	328	30	31	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	7	8	-15.5%	0	0	7	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	325	328	-0.8%	0	0	295	297	30	31	0	0
New Mexico	3	5	-47.4%	0	0	3	5	0	0	0	0
Utah	30	27	10.3%	13	10	17	17	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,043	1,024	1.8%	67	64	976	961	0	0	0	0
California	1,030	1,008	2.2%	67	64	963	944	0	0	0	0
Oregon	13	17	-23.8%	0	0	13	17	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	NM	0	--	0	0	NM	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	0	--	0	0	NM	0	0	0	0	0
U.S. Total	1,426	1,393	2.4%	80	74	1,316	1,288	30	31	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.B. Utility Scale Facility Net Generation from Geothermal

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 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	3,050	2,963	2.9%	93	80	2,665	2,594	292	289	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	58	66	-12.6%	0	0	58	66	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,725	2,643	3.1%	0	0	2,433	2,354	292	289	0	0
New Mexico	33	39	-16.2%	0	0	33	39	0	0	0	0
Utah	234	215	9.0%	93	80	142	135	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	7,993	7,834	2.0%	487	478	7,506	7,356	0	0	0	0
California	7,889	7,705	2.4%	487	478	7,402	7,226	0	0	0	0
Oregon	104	130	-20.2%	0	0	104	130	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	138	0	--	0	0	138	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	138	0	--	0	0	138	0	0	0	0	0
U.S. Total	11,180	10,798	3.5%	579	558	10,309	9,950	292	289	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	641	515	24.3%	211	160	429	355	19	12	191	147	NM	186	NM	1	235	185	NM	14	NM	0	18	13	177	157
Connecticut	100	80	25.6%	23	15	77	65	0	0	22	14	NM	23	NM	1	29	23	NM	3	NM	0	4	3	44	39
Maine	NM	9	NM	NM	1	10	8	0	0	NM	1	3	4	0	0	3	4	0	0	0	0	0	0	6	5
Massachusetts	426	354	20.4%	150	124	276	230	11	8	138	115	NM	134	NM	1	167	134	NM	10	NM	0	12	9	97	87
New Hampshire	17	14	17.5%	0	0	17	14	0	0	0	0	6	5	0	0	6	5	1	1	0	0	1	1	10	9
Rhode Island	48	26	84.8%	17	6	31	20	0	0	17	6	23	14	0	0	23	14	0	0	0	0	0	0	8	6
Vermont	40	32	21.8%	20	15	19	17	7	4	13	11	7	6	0	0	7	6	0	0	0	0	0	0	12	11
Middle Atlantic	844	675	25.0%	285	196	559	479	9	8	255	168	279	221	19	17	260	204	31	27	3	2	28	25	270	250
New Jersey	415	351	18.2%	161	127	254	224	9	8	135	102	135	117	17	15	118	101	NM	17	NM	1	20	16	116	107
New York	346	262	32.2%	103	60	243	202	0	0	101	58	NM	87	NM	1	122	86	NM	2	NM	1	2	2	119	115
Pennsylvania	82	62	33.2%	21	9	62	53	0	0	19	8	NM	18	NM	0	20	17	NM	7	NM	1	7	6	35	29
East North Central	228	171	33.5%	99	89	129	82	35	30	63	58	NM	44	NM	2	66	43	6	6	0	0	6	5	56	34
Illinois	62	29	109.6%	10	7	52	22	0	0	10	7	NM	12	NM	0	29	12	NM	0	0	0	NM	0	23	10
Indiana	62	54	15.1%	44	40	18	14	23	18	21	22	NM	8	NM	0	10	8	1	0	0	0	1	0	8	6
Michigan	34	31	10.2%	17	18	18	13	10	11	7	7	NM	6	NM	0	8	6	0	NM	0	0	0	NM	10	7
Ohio	46	41	13.2%	20	19	26	22	NM	1	18	17	NM	13	NM	1	14	13	3	3	0	0	3	3	9	6
Wisconsin	24	16	53.1%	9	4	15	11	NM	0	7	4	NM	5	NM	0	6	4	2	2	0	0	2	2	7	5
West North Central	292	253	15.5%	209	186	83	67	3	3	205	182	37	32	0	0	37	32	4	3	0	0	4	3	42	33
Iowa	26	19	33.0%	2	2	23	17	NM	1	NM	1	14	11	0	0	14	11	1	1	0	0	1	1	8	6
Kansas	12	5	127.3%	7	1	5	4	NM	0	7	1	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Minnesota	198	178	11.4%	184	166	15	12	NM	0	183	166	4	4	0	0	4	4	2	1	0	0	2	1	9	7
Missouri	48	44	8.5%	11	12	38	32	1	1	9	11	16	15	0	0	16	15	1	1	0	0	1	1	20	16
Nebraska	7	5	33.4%	5	4	2	2	NM	1	4	3	1	1	0	0	1	1	0	0	0	0	0	0	1	1
North Dakota	0	0	13.5%	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	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	2,660	1,787	48.9%	2,303	1,496	357	291	695	375	1,592	1,106	97	87	15	14	82	73	NM	32	NM	1	34	32	241	185
Delaware	20	18	12.0%	6	5	13	13	NM	1	6	4	4	4	0	0	4	3	1	1	0	0	1	1	9	8
District of Columbia	NM	10	NM	NM	1	12	10	0	0	NM	1	6	5	0	0	6	5	0	0	0	0	0	0	6	5
Florida	735	384	91.5%	632	320	103	64	536	277	95	42	NM	13	NM	1	14	12	NM	1	NM	0	1	1	87	51
Georgia	NM	229	NM	409	200	NM	NM	39	30	369	169	NM	4	NM	0	5	4	NM	NM	0	0	NM	NM	NM	NM
Maryland	163	150	8.7%	60	47	103	103	NM	1	57	45	NM	27	NM	2	27	26	3	4	0	0	3	4	73	74
North Carolina	902	775	16.3%	866	749	36	27	58	42	797	696	24	23	11	11	13	12	1	1	0	0	1	1	22	14
South Carolina	228	116	95.8%	192	85	36	32	NM	0	190	84	7	7	0	0	7	7	NM	3	NM	0	4	3	25	22
Virginia	157	103	52.3%	135	90	22	13	60	25	75	65	NM	4	NM	0	7	4	0	0	0	0	0	0	15	10
West Virginia	2	1	23.0%	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	140	126	11.1%	122	110	18	17	7	7	113	101	NM	11	NM	0	11	11	NM	1	NM	1	0	0	7	5
Alabama	NM	40	NM	38	39	NM	NM	3	2	35	36	NM	NM	0	0	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	10	9	11.8%	5	5	5	4	5	5	NM	0	3	2	0	0	3	2	0	0	0	0	0	0	3	2
Mississippi	46	31	45.1%	44	30	2	1	0	0	44	30	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
Tennessee	45	46	-1.4%	35	36	10	10	NM	0	34	35	NM	7	NM	0	7	7	NM	NM	NM	1	NM	NM	3	3
West South Central	1,288	624	106.4%	1,088	494	200	130	11	8	1,075	484	38	29	2	2	36	27	3	1	0	0	3	1	161	102
Arkansas	33	28	19.1%	24	24	9	4	NM	0	22	22	4	3	2	2	2	1	3	0	0	0	3	0	4	2
Louisiana	NM	23	NM	NM	0	25	23	NM	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	23	22
Oklahoma	12	9	36.6%	9	7	3	2	9	7	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
Texas	1,219	565	115.8%	1,056	464	163	101	NM	1	1,054	462	NM	25	NM	0	32	24	NM	0	0	0	NM	0	131	77
Mountain	2,174	2,066	5.2%	1,656	1,611	518	456	132	136	1,513	1,464	139	128	11	10	128	118	NM	7	NM	1	7	6	383	332
Arizona	751	730	2.9%	489	491	262	239	73	82	414	407	NM	69	NM	2	74	68	1	1	0	0	1	1	186	170
Colorado	217	199	9.1%	149	136	68	63	NM	1	145	134	25	22	3	2	22	21	0	0	0	0	0	0	46	42
Idaho	69	71	-3.7%	59	64	10	7	0	0	58	64	1	1	0	0	1	1	NM	1	NM	0	1	0	8	6
Montana	7	6	19.9%	3	3	4	3	0	0	3	3	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Nevada	619	577	7.4%	534	507	85	70	20	19	507	481	18	18	7	7	11	11	4	4	0	0	4	4	70	55
New Mexico	205	175	16.8%	172	148	32	27	38	35	135	114	8	8	0	0	8	8	0	0	0	0	0	0	24	19
Utah	287	285	0.6%	232	239	55	46	0	0	232	239	10	9	0	0	10	9	1	1	0	0	1	1	44	36
Wyoming	20	23	-16.0%	18	22	1	1	0	0	18	22	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pacific Contiguous	4,819	4,728	1.9%	2,988	3,100	1,830	1,629	51	54	2,913	3,023	447	399	17	18	430	382	266	230	7	5	260	226	1,141	1,021
California	4,631	4,590	0.9%	2,864	3,015	1,767	1,575	50	54	2,790	2,939	430	385	17	18	413	368	264	228	7	5	258	224	1,096	984
Oregon	152	108	41.3%	120	80	32	28	NM	1	119	79	12	10	0	0	12	10	2	2	0	0	2	2	18	15
Washington	36	31	15.8%	4	5	31	26	0	0	4	5	5	4	0	0	5	4	0	0	0	0	0	0	27	22
Pacific Noncontiguous	168	130	29.9%	52	23	116	107	8	2	44	20	44	41	0	0	44	41	0	0	0	0	0	0	71	66
Alaska	1	1	58.6%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Hawaii	167	129	29.7%	52	23	115	106	8	2	44	20	44	41	0	0	44	41	0	0	0	0	0	0	71	65
U.S. Total	13,254	11,075	19.7%	9,013	7,464	4,240	3,611	970	636	7,964	6,754	1,398	1,181	68	64	1,330	1,116	373	320	12	9	360	311	2,550	2,184

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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 August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	4,368	3,484	25.4%	1,489	1,109	2,879	2,375	134	81	1,342	1,017	1,565	1,268	9	8	1,556	1,260	125	96	4	3	121	93	1,201	1,022
Connecticut	700	538	30.2%	162	101	538	436	2	2	155	95	204	163	4	4	200	160	30	21	NM	0	30	21	308	256
Maine	71	60	17.3%	6	5	65	55	0	0	6	5	23	23	0	0	23	23	0	0	0	0	0	0	41	32
Massachusetts	2,878	2,412	19.3%	1,061	858	1,817	1,554	79	52	974	798	1,093	929	5	4	1,088	925	86	68	4	3	83	65	645	564
New Hampshire	115	94	21.8%	0	0	115	94	0	0	0	0	38	29	0	0	38	29	7	6	0	0	7	6	69	59
Rhode Island	328	159	105.7%	115	38	213	121	0	0	115	38	157	81	0	0	157	81	0	0	0	0	0	0	56	41
Vermont	277	221	25.4%	145	106	132	114	52	27	93	80	50	42	0	0	50	42	2	2	0	0	2	2	80	70
Middle Atlantic	5,918	4,574	29.4%	1,979	1,282	3,939	3,293	64	58	1,761	1,091	1,952	1,545	135	116	1,817	1,429	221	183	19	16	202	167	1,920	1,697
New Jersey	2,962	2,436	21.6%	1,134	850	1,827	1,586	64	58	943	681	965	840	120	105	845	735	150	114	7	5	142	109	840	741
New York	2,410	1,722	40.0%	725	371	1,685	1,350	0	0	711	359	841	582	9	8	832	574	18	17	5	5	13	13	840	764
Pennsylvania	546	417	31.0%	119	61	427	356	0	0	107	51	145	123	6	3	139	119	54	51	7	6	47	45	240	192
East North Central	1,476	1,031	43.2%	680	526	796	505	235	175	433	340	415	282	11	9	404	273	44	36	2	1	43	34	349	198
Illinois	355	169	110.4%	57	46	297	123	2	1	53	42	165	71	2	2	163	69	1	0	0	0	1	0	133	54
Indiana	425	332	28.2%	305	241	120	90	155	102	149	137	65	52	NM	1	63	51	4	2	0	0	4	2	52	37
Michigan	233	189	23.3%	119	110	114	80	70	66	48	42	51	40	NM	1	50	39	2	2	0	0	2	2	62	38
Ohio	314	243	29.2%	141	103	173	140	6	5	130	93	97	89	4	3	94	86	22	19	2	1	20	17	59	37
Wisconsin	149	98	51.8%	57	26	93	72	NM	0	52	24	37	30	2	2	34	28	15	12	0	0	15	12	43	32
West North Central	1,970	1,499	31.4%	1,417	1,071	553	429	24	21	1,392	1,049	251	204	0	1	251	203	23	17	0	0	23	17	279	210
Iowa	169	125	35.4%	18	11	152	114	7	6	11	5	94	71	0	0	94	71	5	4	0	0	5	4	53	40
Kansas	76	35	114.8%	41	9	34	26	NM	1	40	7	13	11	0	0	13	11	0	0	0	0	0	0	21	16
Minnesota	1,342	1,025	31.0%	1,247	950	95	75	2	2	1,245	948	26	25	0	0	26	25	12	8	0	0	12	8	58	41
Missouri	331	278	19.1%	75	76	255	202	8	8	67	67	113	93	0	1	113	92	5	4	0	0	5	4	138	106
Nebraska	49	34	43.9%	34	23	15	10	5	3	28	20	6	4	0	0	6	4	1	1	0	0	1	1	9	6
North Dakota	1	1	15.5%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	3	2	13.0%	NM	1	1	1	0	0	NM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
South Atlantic	18,701	13,082	42.9%	16,156	11,019	2,545	2,063	5,097	3,004	10,944	7,910	686	639	109	101	576	539	264	242	6	5	258	237	1,710	1,288
Delaware	139	128	8.6%	47	38	92	90	5	5	42	33	24	25	0	0	24	25	6	6	0	0	6	6	62	59
District of Columbia	96	71	33.6%	13	6	82	66	0	0	13	6	40	36	0	0	40	36	0	0	0	0	0	0	43	30
Florida	5,231	3,106	68.4%	4,490	2,650	741	456	3,954	2,296	526	345	112	98	7	7	104	92	13	9	3	2	11	7	626	357
Georgia	2,856	1,712	66.8%	2,624	1,495	232	217	253	220	2,369	1,274	35	31	2	2	33	29	179	173	0	0	179	173	21	14
Maryland	1,169	1,068	9.4%	436	349	733	719	7	6	415	331	199	198	14	12	185	186	22	26	0	0	22	26	526	507
North Carolina	6,592	5,447	21.0%	6,343	5,259	249	188	432	296	5,828	4,885	176	165	83	78	92	87	10	5	0	0	10	5	147	96
South Carolina	1,495	781	91.6%	1,235	549	260	231	7	3	1,225	544	53	57	0	0	53	57	32	21	NM	2	29	18	179	156
Virginia	1,111	760	46.1%	968	672	143	88	439	178	527	493	44	26	NM	1	42	25	2	1	0	0	2	1	99	62
West Virginia	11	9	27.5%	0	0	11	9	0	0	0	0	3	3	0	0	3	3	0	0	0	0	0	0	7	6
East South Central	1,000	878	14.0%	873	764	127	114	52	48	812	708	83	79	4	3	79	76	7	7	5	5	2	2	46	36
Alabama	285	289	-1.3%	275	279	10	10	19	17	255	262	7	7	0	0	7	7	1	1	0	0	1	1	2	2
Kentucky	69	60	15.4%	33	32	36	28	32	31	NM	1	17	16	0	0	17	16	1	1	0	0	1	1	18	11
Mississippi	322	231	39.3%	312	222	11	9	0	0	312	222	6	5	0	0	6	5	0	0	0	0	0	0	5	4
Tennessee	323	297	8.8%	253	231	70	67	NM	0	244	223	53	51	4	3	49	48	5	5	5	5	0	0	21	19
West South Central	6,702	4,099	63.5%	5,361	3,217	1,342	882	66	51	5,277	3,159	270	198	17	7	253	191	22	5	0	0	22	5	1,068	686
Arkansas	215	171	25.8%	156	147	59	24	NM	1	140	141	29	11	14	4	15	7	18	2	0	0	18	2	25	14
Louisiana	178	169	4.9%	NM	1	176	168	NM	1	0	0	11	12	0	0	11	12	0	0	0	0	0	0	165	157
Oklahoma	69	56	22.6%	49	43	20	13	49	43	0	0	4	3	0	0	4	3	1	0	0	0	1	0	15	10
Texas	6,241	3,703	68.6%	5,154	3,026	1,087	677	14	6	5,137	3,018	226	172	3	2	222	169	2	2	0	0	2	2	862	506
Mountain	15,723	13,664	15.1%	11,893	10,374	3,830	3,290	957	875	10,851	9,428	1,056	955	80	68	976	887	54	49	5	3	49	47	2,806	2,356
Arizona	5,630	5,007	12.4%	3,607	3,212	2,023	1,795	533	534	3,063	2,667	599	534	11	11	588	523	10	10	0	0	10	10	1,425	1,262
Colorado	1,568	1,320	18.8%	1,083	873	485	447	6	4	1,056	858	177	166	20	11	156	155	2	2	0	0	2	2	327	290
Idaho	477	448	6.4%	416	409	61	39	0	0	413	408	6	4	0	0	6	4	6	3	NM	1	3	2	52	33
Montana	47	39	21.0%	23	21	24	17	0	0	23	21	7	5	0	0	7	5	0	0	0	0	0	0	17	12
Nevada	4,400	3,668	20.0%	3,796	3,203	604	465	146	122	3,600	3,033	130	123	49	46	82	77	28	28	2	2	26	26	496	362
New Mexico	1,438	1,169	23.0%	1,190	967	248	202	272	215	918	752	66	59	0	0	66	59	1	1	0	0	1	1	181	142
Utah	2,031	1,871	8.6%	1,655	1,554	377	317	0	0	1,655	1,554	70	61	0	0	70	61	7	6	0	0	7	6	300	249
Wyoming	133	142	-6.7%	124	136	9	6	0	0	124	136	2	2	0	0	2	2	0	0	0	0	0	0	7	4
Pacific Contiguous	33,802	30,204	11.9%	21,203	19,276	12,599	10,928	369	348	20,668	18,789	3,091	2,738	123	110	2,968	2,628	1,778	1,553	43	29	1,735	1,524	7,896	6,776
California	32,635	29,355	11.2%	20,416	18,749	12,219	10,606	365	344	19,885	18,267	2,990	2,650	123	110	2,867	2,540	1,766	1,541	43	29	1,723	1,512	7,630	6,554
Oregon	947	663	42.8%	755	494	192	169	4	4	751	491	74	65	0	0	74	65	12	12	0	0	12	12	106	91
Washington	220	186	18.5%	31	32	189	154	0	0	31	32	27	22	0	0	27	22	0	0	0	0	0	0	161	131
Pacific Noncontiguous	1,191	925	28.7%	351	158	840	767	60	26	291	133	321	301	0	0	321	301	3	3	0	0	3	3	517	463
Alaska	6	3	68.5%	0	0	6	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	2
Hawaii	1,185	922	28.6%	351	158	835	764	60	26	291	133	319	300	0	0	319	300	3	3	0	0	3	3	513	461
U.S. Total	90,852	73,440	23.7%	61,400	48,794	29,452	24,646	7,058	4,687	53,771	43,623	9,690	8,209	489	423	9,201	7,786	2,541	2,190	83	61	2,459	2,128	17,792	14,731

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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, August 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	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 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	NM	0	--	0	0	NM	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	NM	0	--	0	0	NM	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	4	4	-0.6%	4	4	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	4	4	-0.6%	4	4	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	93	115	-18.6%	0	0	93	115	0	0	0	0
Arizona	81	99	-18.8%	0	0	81	99	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	13	15	-17.0%	0	0	13	15	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	259	294	-12.1%	0	0	259	294	0	0	0	0
California	259	294	-12.1%	0	0	259	294	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	356	413	-13.6%	4	4	353	409	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.18.B. Utility Scale Facility Net Generation from Solar Thermal

by State, by Sector, Year-to-Date through August 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	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 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	148	0	--	0	0	148	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	148	0	--	0	0	148	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	0	--	0	0	4	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	4	0	--	0	0	4	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	27	23	14.2%	27	23	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	27	23	14.2%	27	23	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	660	734	-10.2%	0	0	660	734	0	0	0	0
Arizona	576	599	-3.9%	0	0	576	599	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	84	135	-38.1%	0	0	84	135	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	1,664	1,657	0.4%	0	0	1,664	1,657	0	0	0	0
California	1,664	1,657	0.4%	0	0	1,664	1,657	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,502	2,415	3.6%	27	23	2,476	2,391	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Chapter 2

Consumption of Fossil Fuels

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2010-August 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	537,616	399,541	135,838	76	2,161
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	55,834	41,306	14,305	8	214
February	45,025	33,349	11,471	8	197
March	43,974	31,664	12,133	9	168
April	33,353	24,495	8,691	6	161
May	40,015	30,285	9,547	6	178
June	44,218	33,558	10,482	4	174
July	55,863	42,319	13,345	5	193
August	52,348	39,741	12,412	5	190
Sept	47,188	35,453	11,554	6	175
October	37,431	27,149	10,119	6	157
November	41,907	30,453	11,274	6	173
December	40,461	29,769	10,505	7	180
Year 2020					
January	36,767	27,293	9,282	5	187
February	32,039	23,652	8,201	9	177
March	28,988	21,679	7,134	6	168
April	23,622	17,006	6,469	4	144
May	26,849	19,805	6,898	4	142
June	36,637	27,742	8,759	5	130
July	49,838	38,279	11,411	5	143
August	50,430	38,888	11,398	4	140
Year to Date					
2018	426,552	318,333	106,421	60	1,739
2019	370,630	276,717	92,386	51	1,476
2020	285,170	214,344	69,552	44	1,230
Rolling 12 Months Ending in August					
2019	580,291	432,001	145,941	78	2,271
2020	452,156	337,168	113,004	70	1,915

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 2019 and prior years are final. Values for 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-August 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	12,397	2,062	1,161	443	8,731
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	1,312	198	158	51	905
February	1,158	189	114	47	808
March	1,112	189	110	49	764
April	1,009	141	102	34	732
May	941	123	90	33	695
June	950	161	95	23	671
July	950	171	97	30	653
August	974	190	88	32	664
Sept	914	168	73	34	640
October	985	174	81	31	699
November	1,019	174	76	38	731
December	1,072	184	76	42	770
Year 2020					
January	1,058	156	70	35	796
February	1,016	144	69	40	763
March	917	108	56	34	719
April	803	90	59	25	630
May	803	115	53	28	608
June	772	124	49	29	569
July	870	166	55	30	618
August	855	171	56	33	594
Year to Date					
2018	9,372	1,572	911	336	6,554
2019	8,406	1,363	855	298	5,891
2020	7,094	1,075	468	255	5,296
Rolling 12 Months Ending in August					
2019	12,847	2,059	1,300	451	9,037
2020	11,084	1,775	773	399	8,136

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 2019 and prior years are final. Values for 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-August 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	550,013	401,603	136,998	519	10,892
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	57,146	41,504	14,463	59	1,119
February	46,183	33,539	11,586	54	1,005
March	45,086	31,853	12,243	58	932
April	34,362	24,636	8,793	40	893
May	40,956	30,408	9,637	38	873
June	45,168	33,720	10,577	27	845
July	56,813	42,490	13,442	35	846
August	53,322	39,931	12,500	37	854
Sept	48,102	35,621	11,628	40	814
October	38,416	27,323	10,200	37	856
November	42,925	30,627	11,350	44	904
December	41,533	29,952	10,581	49	950
Year 2020					
January	37,825	27,449	9,352	41	984
February	33,055	23,796	8,270	49	939
March	29,905	21,788	7,190	41	886
April	24,425	17,096	6,527	29	773
May	27,652	19,920	6,951	32	749
June	37,409	27,867	8,808	35	699
July	50,708	38,446	11,467	35	761
August	51,285	39,059	11,454	37	735
Year to Date					
2018	435,924	319,905	107,331	396	8,292
2019	379,036	278,080	93,241	348	7,367
2020	292,264	215,419	70,020	298	6,527
Rolling 12 Months Ending in August					
2019	593,139	434,060	147,241	529	11,308
2020	463,240	338,943	113,777	469	10,051

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 2019 and prior years are final. Values for 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-August 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	20,836	15,677	4,464	251	444
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	2,506	1,672	755	32	46
February	1,482	1,099	327	15	42
March	1,476	1,159	263	16	38
April	1,417	1,046	313	15	44
May	1,702	1,305	346	17	33
June	1,747	1,369	328	17	33
July	1,818	1,328	436	24	30
August	1,868	1,473	340	21	34
Sept	1,669	1,305	302	27	35
October	1,709	1,305	347	23	34
November	1,626	1,228	339	23	37
December	1,816	1,388	369	22	37
Year 2020					
January	1,777	1,484	237	22	34
February	1,444	1,187	210	12	35
March	1,369	1,012	309	17	31
April	1,185	923	222	12	28
May	1,288	1,010	227	20	31
June	1,569	1,232	287	20	30
July	1,747	1,343	348	25	31
August	1,674	1,316	311	24	23
Year to Date					
2018	21,398	13,079	7,759	193	367
2019	14,016	10,452	3,108	155	301
2020	12,053	9,506	2,151	153	243
Rolling 12 Months Ending in August					
2019	21,233	15,718	4,815	231	469
2020	18,872	14,731	3,508	248	385

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 2019 and prior years are final. Values for 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-August 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	2,162	71	226	419	1,446
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	404	18	42	58	287
February	195	9	22	30	135
March	160	5	18	29	108
April	143	4	16	17	106
May	228	5	16	120	86
June	115	3	16	12	83
July	110	3	12	24	71
August	124	5	11	23	84
Sept	138	5	20	28	86
October	140	5	18	21	96
November	249	4	17	32	195
December	157	5	16	26	109
Year 2020					
January	134	4	9	26	94
February	121	4	10	17	90
March	113	3	12	20	78
April	102	6	14	12	70
May	120	3	13	22	81
June	121	4	13	18	86
July	129	3	15	27	84
August	140	3	15	33	88
Year to Date					
2018	1,780	85	224	254	1,218
2019	1,479	53	154	313	960
2020	979	31	102	175	671
Rolling 12 Months Ending in August					
2019	2,313	71	284	409	1,549
2020	1,662	49	173	282	1,157

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 2019 and prior years are final. Values for 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-August 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	22,998	15,748	4,690	670	1,890
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	2,911	1,691	797	90	333
February	1,678	1,108	349	44	177
March	1,635	1,164	281	44	145
April	1,560	1,049	329	32	150
May	1,929	1,311	362	137	119
June	1,862	1,372	344	29	117
July	1,928	1,332	448	48	101
August	1,992	1,478	352	44	118
Sept	1,807	1,310	321	54	121
October	1,848	1,309	365	44	130
November	1,875	1,231	356	55	232
December	1,972	1,393	385	48	146
Year 2020					
January	1,911	1,489	246	48	128
February	1,565	1,191	220	30	124
March	1,482	1,015	321	37	109
April	1,286	928	236	24	98
May	1,408	1,013	240	42	113
June	1,690	1,236	300	38	116
July	1,876	1,346	363	53	115
August	1,814	1,319	326	57	111
Year to Date					
2018	23,178	13,163	7,983	447	1,585
2019	15,496	10,504	3,262	468	1,261
2020	13,032	9,537	2,253	328	914
Rolling 12 Months Ending in August					
2019	23,546	15,789	5,099	640	2,018
2020	20,534	14,780	3,681	530	1,543

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 2019 and prior years are final. Values for 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-August 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	2,724	2,067	478	1	177
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	326	258	54	0	13
February	272	222	39	0	11
March	235	193	28	0	13
April	155	107	32	0	16
May	294	219	60	0	14
June	216	151	51	0	14
July	309	227	58	0	24
August	276	203	58	0	15
Sept	231	183	33	0	15
October	83	64	3	0	15
November	129	101	15	0	14
December	197	137	46	0	14
Year 2020					
January	261	204	42	0	15
February	190	147	31	0	12
March	262	210	39	0	13
April	221	179	33	0	9
May	231	183	35	0	13
June	308	258	36	0	14
July	356	298	43	0	15
August	305	245	44	0	16
Year to Date					
2018	2,477	1,886	472	1	117
2019	2,084	1,582	381	1	120
2020	2,133	1,724	302	1	107
Rolling 12 Months Ending in August					
2019	3,230	2,436	612	2	179
2020	2,773	2,208	400	1	164

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 2019 and prior years are final. Values for 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-August 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	839	17	93	6	724
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	73	1	8	2	62
February	66	1	8	1	55
March	73	1	9	1	62
April	71	2	9	1	59
May	70	1	9	0	61
June	70	1	7	0	62
July	76	2	8	0	65
August	69	0	8	0	61
Sept	79	2	7	0	69
October	64	1	2	0	61
November	57	2	9	0	46
December	72	2	9	1	60
Year 2020					
January	75	1	9	2	62
February	49	1	9	1	37
March	39	1	9	0	30
April	31	3	8	0	21
May	59	3	8	0	48
June	71	1	6	0	64
July	69	1	7	0	62
August	79	4	8	0	67
Year to Date					
2018	624	9	61	5	549
2019	568	10	65	5	487
2020	472	15	64	3	390
Rolling 12 Months Ending in August					
2019	874	13	97	10	753
2020	743	21	92	4	626

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 2019 and prior years are final. Values for 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-August 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	3,563	2,083	571	7	900
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	399	260	62	2	75
February	338	224	47	1	66
March	308	194	37	2	75
April	227	110	41	1	74
May	364	220	69	0	75
June	287	152	58	0	76
July	385	230	66	0	89
August	346	203	66	0	76
Sept	310	185	40	0	84
October	146	65	5	0	76
November	186	102	24	0	60
December	269	139	55	1	74
Year 2020					
January	336	205	51	2	77
February	239	148	40	1	49
March	301	211	47	0	43
April	252	182	40	0	29
May	290	187	43	0	61
June	379	258	43	0	78
July	425	298	50	0	77
August	383	249	52	0	83
Year to Date					
2018	3,101	1,895	533	6	666
2019	2,652	1,592	446	7	607
2020	2,605	1,739	366	4	496
Rolling 12 Months Ending in August					
2019	4,103	2,449	710	12	932
2020	3,516	2,230	491	5	790

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 2019 and prior years are final. Values for 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-August 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	11,600,558	5,968,380	4,958,798	55,575	617,805
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	873,247	441,597	373,529	4,566	53,555
February	801,042	411,828	338,638	4,217	46,359
March	835,654	431,525	350,686	4,516	48,926
April	762,539	398,908	313,343	4,173	46,115
May	863,102	458,692	350,386	4,217	49,806
June	1,016,432	538,784	422,755	4,619	50,274
July	1,283,523	657,262	566,007	5,625	54,630
August	1,305,852	676,156	568,683	5,493	55,519
Sept	1,108,866	572,573	478,814	4,824	52,654
October	964,472	493,737	414,452	4,356	51,926
November	846,545	423,023	366,212	4,253	53,057
December	939,284	464,296	415,293	4,715	54,981
Year 2020					
January	957,988	488,493	409,190	4,702	55,603
February	901,967	466,047	381,213	4,216	50,491
March	901,984	472,779	374,003	4,084	51,119
April	783,043	414,915	319,418	3,516	45,194
May	853,523	456,172	346,972	3,804	46,574
June	1,067,619	556,783	457,006	4,249	49,581
July	1,396,437	715,032	623,770	5,046	52,588
August	1,304,306	665,469	580,958	4,980	52,899
Year to Date					
2018	7,304,583	3,782,723	3,112,941	35,663	373,256
2019	7,741,391	4,014,751	3,284,027	37,427	405,186
2020	8,166,867	4,235,690	3,492,531	34,597	404,050
Rolling 12 Months Ending in August					
2019	11,269,851	5,783,209	4,835,021	54,414	597,206
2020	12,026,034	6,189,319	5,167,302	52,745	616,669

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 2019 and prior years are final. Values for 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-August 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	1,196,025	42,645	317,231	79,734	756,415
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	108,272	3,951	29,369	7,409	67,543
February	97,224	3,804	24,972	6,793	61,656
March	101,583	3,690	27,549	6,684	63,661
April	91,878	2,748	24,623	6,027	58,480
May	94,224	2,863	24,079	5,727	61,556
June	95,837	3,342	25,592	6,130	60,772
July	102,404	3,983	27,280	7,354	63,786
August	104,051	4,098	28,829	6,950	64,175
Sept	97,399	3,762	25,526	6,377	61,734
October	96,976	2,931	25,473	6,171	62,402
November	100,030	3,527	26,036	6,628	63,839
December	106,147	3,946	27,902	7,486	66,812
Year 2020					
January	110,376	3,952	29,591	7,417	69,416
February	101,476	3,765	27,602	6,840	63,269
March	102,945	3,868	28,178	6,673	64,226
April	97,212	3,744	25,879	5,909	61,679
May	97,962	3,618	26,933	5,895	61,516
June	98,138	3,829	27,774	6,026	60,510
July	104,421	4,633	29,468	6,621	63,700
August	104,386	4,407	29,712	6,633	63,634
Year to Date					
2018	799,807	29,305	221,995	55,076	493,431
2019	795,474	28,480	212,293	53,072	501,628
2020	816,917	31,816	225,137	52,013	507,949
Rolling 12 Months Ending in August					
2019	1,201,629	42,331	322,251	79,853	757,195
2020	1,217,468	45,982	330,075	78,675	762,736

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 2019 and prior years are final. Values for 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-August 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	12,796,583	6,011,024	5,276,029	135,310	1,374,220
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	981,519	445,548	402,898	11,975	121,099
February	898,267	415,631	363,610	11,010	108,015
March	937,238	435,215	378,235	11,200	112,587
April	854,417	401,656	337,966	10,200	104,595
May	957,326	461,555	374,465	9,944	111,362
June	1,112,268	542,126	448,347	10,749	111,046
July	1,385,927	661,245	593,287	12,979	118,416
August	1,409,903	680,254	597,512	12,443	119,694
Sept	1,206,264	576,335	504,340	11,201	114,389
October	1,061,448	496,668	439,925	10,527	114,328
November	946,575	426,550	392,248	10,881	116,896
December	1,045,431	468,241	443,195	12,201	121,793
Year 2020					
January	1,068,364	492,445	438,782	12,119	125,018
February	1,003,444	469,812	408,815	11,057	113,760
March	1,004,930	476,647	402,181	10,756	115,345
April	880,255	418,659	345,297	9,425	106,874
May	951,485	459,790	373,906	9,699	108,090
June	1,165,757	560,612	484,779	10,275	110,091
July	1,500,857	719,665	653,238	11,667	116,288
August	1,408,692	669,876	610,670	11,612	116,533
Year to Date					
2018	8,104,391	3,812,029	3,334,937	90,739	866,686
2019	8,536,865	4,043,231	3,496,321	90,500	906,814
2020	8,983,784	4,267,506	3,717,669	86,610	911,999
Rolling 12 Months Ending in August					
2019	12,471,480	5,825,540	5,157,272	134,267	1,354,401
2020	13,243,502	6,235,300	5,497,377	131,420	1,379,405

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 2019 and prior years are final. Values for 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-August 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	257,494	22,726	214,819	16,874	3,075
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	22,792	2,043	18,790	1,704	255
February	20,542	1,803	16,998	1,508	233
March	22,380	2,008	18,459	1,642	271
April	20,457	1,890	17,249	1,057	261
May	20,947	1,952	17,959	778	258
June	21,359	1,857	17,889	1,360	254
July	21,932	1,873	18,326	1,493	240
August	21,963	1,898	18,295	1,518	253
Sept	20,789	1,811	17,246	1,477	256
October	21,252	1,843	17,705	1,436	268
November	20,712	1,807	17,237	1,419	248
December	22,369	1,942	18,665	1,482	280
Year 2020					
January	22,311	1,938	18,576	1,528	269
February	20,640	1,829	17,098	1,469	245
March	22,387	2,004	18,602	1,545	236
April	21,190	1,936	17,788	1,284	183
May	21,603	1,977	18,123	1,341	162
June	19,659	1,817	16,381	1,285	176
July	20,610	1,919	17,123	1,384	184
August	21,068	1,975	17,544	1,381	169
Year to Date					
2018	181,761	16,569	149,699	13,136	2,357
2019	172,372	15,323	143,965	11,060	2,023
2020	169,469	15,394	141,235	11,216	1,624
Rolling 12 Months Ending in August					
2019	260,846	22,334	217,779	17,715	3,019
2020	254,591	22,796	212,089	17,030	2,676

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 2019 and prior years are final. Values for 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-August 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	3,570	5	1,933	820	812
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	331	0	181	84	66
February	301	0	175	67	58
March	357	0	203	80	73
April	362	0	184	102	75
May	250	0	112	64	74
June	283	0	146	77	59
July	282	0	166	42	73
August	267	0	128	73	65
Sept	264	0	125	74	65
October	317	0	168	77	71
November	284	0	155	59	70
December	273	0	190	21	62
Year 2020					
January	392	0	278	36	78
February	392	0	253	65	73
March	318	0	176	73	69
April	195	0	65	70	60
May	252	0	143	54	55
June	275	0	150	65	60
July	300	0	167	76	57
August	291	0	163	74	53
Year to Date					
2018	2,441	0	1,261	589	591
2019	2,432	3	1,296	589	544
2020	2,417	2	1,396	513	506
Rolling 12 Months Ending in August					
2019	3,612	3	1,901	911	796
2020	3,555	3	2,033	744	774

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 2019 and prior years are final. Values for 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-August 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	261,064	22,731	216,753	17,694	3,887
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	23,123	2,043	18,971	1,788	321
February	20,843	1,804	17,173	1,576	291
March	22,737	2,008	18,662	1,722	344
April	20,819	1,891	17,433	1,159	336
May	21,197	1,952	18,072	842	332
June	21,642	1,857	18,035	1,438	313
July	22,214	1,874	18,492	1,535	313
August	22,230	1,898	18,423	1,591	317
Sept	21,053	1,811	17,371	1,550	321
October	21,569	1,843	17,873	1,514	339
November	20,996	1,807	17,392	1,478	319
December	22,642	1,942	18,855	1,503	342
Year 2020					
January	22,703	1,938	18,854	1,565	347
February	21,032	1,829	17,352	1,534	317
March	22,705	2,004	18,777	1,618	306
April	21,386	1,936	17,853	1,354	243
May	21,856	1,977	18,267	1,394	218
June	19,934	1,817	16,531	1,350	236
July	20,910	1,919	17,290	1,460	241
August	21,360	1,975	17,707	1,455	222
Year to Date					
2018	184,202	16,569	150,960	13,724	2,948
2019	174,804	15,327	145,261	11,649	2,567
2020	171,885	15,396	142,631	11,730	2,130
Rolling 12 Months Ending in August					
2019	264,458	22,337	219,680	18,626	3,815
2020	258,146	22,800	214,122	17,774	3,450

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 2019 and prior years are final. Values for 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-August 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	15,559	297	12,941	2,310	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	1,322	30	1,092	199	1
February	1,158	20	961	177	1
March	1,255	20	1,046	188	1
April	1,235	28	1,014	193	1
May	1,337	26	1,112	198	1
June	1,323	25	1,098	200	1
July	1,369	27	1,146	194	1
August	1,396	29	1,167	200	1
Sept	1,288	21	1,076	191	1
October	1,271	28	1,056	187	1
November	1,270	25	1,062	183	1
December	1,333	20	1,112	201	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	1,246	25	1,049	171	1
May	1,289	24	1,081	183	1
June	1,210	25	1,005	178	1
July	1,337	26	1,120	190	1
August	1,357	26	1,145	185	1
Year to Date					
2018	11,278	312	9,327	1,632	7
2019	10,395	204	8,636	1,549	7
2020	10,217	186	8,577	1,446	8
Rolling 12 Months Ending in August					
2019	15,901	359	13,169	2,365	8
2020	15,380	280	12,883	2,207	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 2019 and prior years are final. Values for 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-August 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	1,667	0	743	737	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	173	0	66	92	15
February	155	0	63	77	15
March	153	0	67	70	16
April	115	0	56	43	17
May	127	0	64	52	12
June	137	0	64	59	15
July	136	0	67	53	16
August	139	0	62	56	21
Sept	124	0	53	56	15
October	130	0	57	58	15
November	139	0	63	61	15
December	139	0	61	62	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
June	123	0	67	43	13
July	128	0	59	54	15
August	141	0	64	56	21
Year to Date					
2018	1,390	0	497	765	129
2019	1,135	0	509	500	127
2020	1,066	0	522	418	126
Rolling 12 Months Ending in August					
2019	1,795	0	764	844	187
2020	1,598	0	756	655	186

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 2019 and prior years are final. Values for 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-August 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	17,225	297	13,684	3,047	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	1,495	30	1,158	291	16
February	1,313	20	1,024	254	16
March	1,408	20	1,114	258	17
April	1,350	28	1,069	235	18
May	1,465	26	1,176	249	13
June	1,461	25	1,162	258	15
July	1,504	27	1,213	247	17
August	1,535	29	1,229	256	22
Sept	1,412	21	1,129	246	16
October	1,401	28	1,113	245	16
November	1,409	25	1,125	244	15
December	1,472	20	1,173	263	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	1,377	25	1,110	224	17
May	1,429	24	1,148	239	17
June	1,333	25	1,072	221	14
July	1,465	26	1,179	245	16
August	1,498	26	1,209	241	22
Year to Date					
2018	12,668	312	9,823	2,397	136
2019	11,530	204	9,144	2,049	134
2020	11,283	186	9,099	1,864	133
Rolling 12 Months Ending in August					
2019	17,696	359	13,933	3,209	195
2020	16,978	280	13,639	2,862	197

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 2019 and prior years are final. Values for 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-August 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	338,317	42,240	128,980	583	166,514
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	31,330	4,132	12,533	52	14,613
February	26,761	3,408	10,117	57	13,179
March	28,083	3,232	10,362	72	14,418
April	23,804	2,677	8,499	24	12,604
May	26,723	3,451	10,257	18	12,997
June	27,518	2,894	10,815	31	13,778
July	31,373	4,740	11,694	101	14,838
August	31,913	5,205	11,694	63	14,951
Sept	28,163	3,594	11,078	51	13,440
October	26,246	2,962	9,729	42	13,513
November	26,964	2,194	11,052	35	13,684
December	29,438	3,751	11,151	37	14,500
Year 2020					
January	28,388	3,247	10,789	48	14,305
February	27,087	3,138	10,527	41	13,381
March	26,785	2,514	10,151	32	14,089
April	24,389	2,091	9,026	8	13,264
May	26,080	2,346	10,272	29	13,433
June	25,037	2,338	9,927	54	12,719
July	26,684	3,012	10,347	88	13,237
August	29,300	4,169	11,575	89	13,467
Year to Date					
2018	246,747	32,072	99,072	370	115,233
2019	227,505	29,738	85,970	418	111,378
2020	213,751	22,855	82,613	389	107,894
Rolling 12 Months Ending in August					
2019	342,460	43,522	130,186	568	168,184
2020	324,563	35,357	125,623	553	163,029

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 2019 and prior years are final. Values for 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-August 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	907,420	3,564	25,740	4,969	873,147
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	81,039	449	2,361	544	77,685
February	73,341	412	2,142	478	70,309
March	77,242	410	2,134	436	74,262
April	72,647	421	2,095	344	69,788
May	74,589	127	2,256	356	71,850
June	73,406	186	2,365	342	70,512
July	76,941	286	2,031	403	74,220
August	77,355	190	2,179	398	74,588
Sept	72,370	117	2,067	394	69,791
October	74,506	233	1,711	423	72,140
November	75,571	346	2,122	442	72,662
December	78,415	386	2,277	410	75,342
Year 2020					
January	77,233	288	2,427	484	74,034
February	73,399	272	2,523	454	70,149
March	74,478	266	2,582	353	71,277
April	72,387	224	1,976	238	69,948
May	76,448	244	2,594	322	73,289
June	68,307	252	2,057	395	65,605
July	71,066	280	2,033	251	68,503
August	69,907	285	2,528	245	66,850
Year to Date					
2018	619,986	6,712	14,947	3,280	595,048
2019	606,558	2,482	17,563	3,300	583,214
2020	583,225	2,111	18,721	2,740	559,654
Rolling 12 Months Ending in August					
2019	915,937	6,067	24,239	4,827	880,805
2020	884,087	3,194	26,898	4,409	849,587

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 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-August 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	1,245,737	45,804	154,720	5,552	1,039,661
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	112,369	4,581	14,894	596	92,297
February	100,102	3,820	12,259	535	83,488
March	105,325	3,641	12,496	508	88,680
April	96,451	3,098	10,594	368	82,392
May	101,311	3,578	12,513	374	84,847
June	100,924	3,081	13,179	373	84,291
July	108,314	5,026	13,725	505	89,058
August	109,267	5,395	13,873	461	89,539
Sept	100,533	3,712	13,145	446	83,230
October	100,752	3,195	11,441	464	85,652
November	102,536	2,540	13,174	477	86,345
December	107,853	4,138	13,428	447	89,841
Year 2020					
January	105,622	3,535	13,216	532	88,338
February	100,485	3,411	13,050	495	83,530
March	101,264	2,780	12,733	385	85,365
April	96,775	2,315	11,003	246	83,212
May	102,528	2,590	12,865	351	86,721
June	93,345	2,589	11,984	448	78,324
July	97,750	3,292	12,379	339	81,740
August	99,208	4,454	14,103	334	80,316
Year to Date					
2018	866,733	38,784	114,018	3,650	710,281
2019	834,063	32,220	103,533	3,719	694,592
2020	796,976	24,966	101,334	3,129	667,547
Rolling 12 Months Ending in August					
2019	1,258,398	49,588	154,425	5,395	1,048,989
2020	1,208,650	38,550	152,521	4,962	1,012,617

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	1	11	-89.0%	0	8	1	3	0	0	NM	0
Connecticut	0	2	-100.0%	0	0	0	2	0	0	0	0
Maine	1	1	13.0%	0	0	1	1	0	0	NM	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	8	-100.0%	0	8	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	1,308	1,595	-18.0%	0	0	1,307	1,593	0	0	1	2
New Jersey	38	35	8.5%	0	0	38	35	0	0	0	0
New York	0	19	-100.0%	0	0	0	19	0	0	0	0
Pennsylvania	1,270	1,541	-18.0%	0	0	1,269	1,539	0	0	1	2
East North Central	10,000	10,266	-2.6%	6,025	6,122	3,925	4,092	1	1	49	51
Illinois	2,115	2,565	-18.0%	103	168	1,971	2,357	0	0	41	40
Indiana	2,756	2,566	7.4%	2,566	2,360	189	204	1	1	0	0
Michigan	1,726	1,932	-11.0%	1,711	1,911	15	20	0	0	NM	1
Ohio	1,966	1,734	13.0%	217	223	1,750	1,511	0	0	0	0
Wisconsin	1,436	1,469	-2.2%	1,428	1,459	0	0	0	0	8	10
West North Central	10,060	10,039	0.2%	10,001	9,936	0	0	1	1	58	102
Iowa	1,339	1,316	1.8%	1,305	1,268	0	0	1	1	33	46
Kansas	1,461	1,176	24.0%	1,461	1,176	0	0	0	0	0	0
Minnesota	1,048	895	17.0%	1,044	875	0	0	0	0	4	20
Missouri	3,097	3,138	-1.3%	3,097	3,138	0	0	0	0	0	0
Nebraska	1,065	1,337	-20.0%	1,048	1,304	0	0	0	0	18	33
North Dakota	1,942	2,049	-5.2%	1,939	2,046	0	0	0	0	4	3
South Dakota	108	129	-16.0%	108	129	0	0	0	0	0	0
South Atlantic	7,445	7,546	-1.3%	6,705	6,666	730	867	0	0	10	12
Delaware	14	9	52.0%	0	0	14	9	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	923	863	6.9%	922	863	0	0	0	0	0	1
Georgia	1,417	1,428	-0.8%	1,414	1,425	0	0	0	0	3	3
Maryland	207	344	-40.0%	0	0	207	344	0	0	0	0
North Carolina	1,538	1,627	-5.4%	1,533	1,621	3	3	0	0	2	2
South Carolina	676	701	-3.5%	673	697	3	4	0	0	0	0
Virginia	336	270	24.0%	328	263	4	1	0	0	5	6
West Virginia	2,335	2,304	1.3%	1,836	1,798	499	506	0	0	0	0
East South Central	5,324	5,341	-0.3%	5,028	5,024	290	307	0	0	7	9
Alabama	1,338	1,385	-3.4%	1,338	1,385	0	0	0	0	0	0
Kentucky	2,301	2,453	-6.2%	2,301	2,453	0	0	0	0	0	0
Mississippi	538	461	17.0%	248	154	290	307	0	0	0	0
Tennessee	1,148	1,042	10.0%	1,141	1,032	0	0	0	0	7	9
West South Central	8,810	8,613	2.3%	4,897	4,751	3,911	3,856	0	0	2	6
Arkansas	1,400	1,394	0.4%	1,280	1,179	120	215	0	0	0	1
Louisiana	425	549	-23.0%	392	535	33	13	0	0	0	0
Oklahoma	762	544	40.0%	760	538	0	0	0	0	2	5
Texas	6,223	6,126	1.6%	2,464	2,498	3,759	3,628	0	0	0	0
Mountain	6,778	8,079	-16.0%	6,004	7,008	767	1,065	0	0	7	7
Arizona	1,022	1,537	-33.0%	1,022	1,537	0	0	0	0	0	0
Colorado	1,077	1,373	-22.0%	1,077	1,373	0	0	0	0	0	0
Idaho	NM	0	--	0	0	0	0	0	0	NM	0
Montana	632	954	-34.0%	13	26	618	928	0	0	NM	0
Nevada	173	172	0.7%	107	108	66	63	0	0	0	0
New Mexico	811	878	-7.6%	811	878	0	0	0	0	0	0
Utah	1,159	1,085	6.9%	1,121	1,056	38	29	0	0	0	0
Wyoming	1,904	2,080	-8.5%	1,853	2,029	44	45	0	0	7	6
Pacific Contiguous	611	745	-18.0%	206	194	399	550	0	0	6	0
California	5	0	--	0	0	0	0	0	0	5	0
Oregon	206	194	6.0%	206	194	0	0	0	0	0	0
Washington	400	550	-27.0%	0	0	399	550	0	0	1	0
Pacific Noncontiguous	94	113	-17.0%	NM	32	69	79	2	2	0	0
Alaska	39	45	-14.0%	NM	32	14	11	2	2	0	0
Hawaii	55	68	-20.0%	0	0	55	68	0	0	0	0
U.S. Total	50,430	52,348	-3.7%	38,888	39,741	11,398	12,412	4	5	140	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.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through August 2020 and August 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	35	175	-80.0%	25	117	9	56	0	0	2	2
Connecticut	2	48	-96.0%	0	0	2	48	0	0	0	0
Maine	9	11	-18.0%	0	0	7	8	0	0	2	2
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	25	117	-79.0%	25	117	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	9,480	14,093	-33.0%	0	0	9,471	14,074	0	0	9	18
New Jersey	274	298	-8.1%	0	0	274	298	0	0	0	0
New York	64	187	-66.0%	0	0	64	187	0	0	0	0
Pennsylvania	9,142	13,608	-33.0%	0	0	9,134	13,590	0	0	9	18
East North Central	58,129	82,105	-29.0%	34,682	48,943	23,056	32,741	5	10	387	411
Illinois	12,023	20,722	-42.0%	700	1,378	11,002	19,025	2	3	318	315
Indiana	15,529	22,006	-29.0%	14,049	20,725	1,478	1,275	3	6	0	0
Michigan	9,661	15,049	-36.0%	9,535	14,924	125	119	0	0	0	7
Ohio	11,775	13,916	-15.0%	1,325	1,594	10,450	12,322	0	0	0	0
Wisconsin	9,141	10,411	-12.0%	9,073	10,322	0	0	0	0	68	89
West North Central	60,464	71,175	-15.0%	59,898	70,444	0	0	9	13	557	717
Iowa	5,867	9,419	-38.0%	5,554	9,072	0	0	8	11	304	337
Kansas	7,623	7,810	-2.4%	7,623	7,810	0	0	0	0	0	0
Minnesota	5,127	7,361	-30.0%	5,096	7,231	0	0	0	1	31	130
Missouri	19,475	22,755	-14.0%	19,474	22,753	0	0	1	1	0	0
Nebraska	8,162	9,025	-9.6%	7,968	8,798	0	0	0	0	194	228
North Dakota	13,523	13,672	-1.1%	13,495	13,649	0	0	0	0	28	23
South Dakota	688	1,132	-39.0%	688	1,132	0	0	0	0	0	0
South Atlantic	35,220	48,726	-28.0%	31,379	43,663	3,753	4,942	5	7	82	113
Delaware	46	81	-44.0%	0	0	46	81	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,618	6,272	-26.0%	4,614	6,265	0	0	0	0	3	7
Georgia	4,409	9,750	-55.0%	4,385	9,723	0	0	0	0	24	27
Maryland	1,095	1,763	-38.0%	0	0	1,095	1,755	0	0	0	8
North Carolina	5,888	8,306	-29.0%	5,843	8,261	23	21	5	6	17	18
South Carolina	3,525	4,350	-19.0%	3,498	4,317	27	32	0	0	1	1
Virginia	1,397	1,445	-3.3%	1,346	1,353	14	40	0	1	37	52
West Virginia	14,242	16,758	-15.0%	11,694	13,745	2,548	3,013	0	0	0	0
East South Central	29,408	35,989	-18.0%	27,269	33,853	2,082	2,065	0	0	57	71
Alabama	7,473	9,391	-20.0%	7,473	9,386	0	0	0	0	0	5
Kentucky	14,173	17,443	-19.0%	14,173	17,443	0	0	0	0	0	0
Mississippi	2,968	3,018	-1.7%	886	953	2,082	2,065	0	0	0	0
Tennessee	4,794	6,137	-22.0%	4,738	6,071	0	0	0	0	57	66
West South Central	46,773	60,946	-23.0%	22,291	32,362	24,451	28,535	0	0	31	49
Arkansas	6,276	9,185	-32.0%	5,124	7,798	1,148	1,382	0	0	4	5
Louisiana	2,006	3,744	-46.0%	1,880	2,908	126	836	0	0	0	0
Oklahoma	2,526	4,137	-39.0%	2,499	4,093	0	0	0	0	27	44
Texas	35,966	43,881	-18.0%	12,788	17,563	23,178	26,317	0	0	0	0
Mountain	42,793	53,050	-19.0%	37,867	46,228	4,862	6,763	0	0	64	59
Arizona	5,085	9,146	-44.0%	5,085	9,146	0	0	0	0	0	0
Colorado	7,709	9,492	-19.0%	7,709	9,491	0	0	0	0	0	1
Idaho	3	2	33.0%	0	0	0	0	0	0	3	2
Montana	4,060	5,952	-32.0%	145	192	3,912	5,758	0	0	3	2
Nevada	746	1,043	-28.0%	339	659	408	384	0	0	0	0
New Mexico	5,057	5,296	-4.5%	5,057	5,296	0	0	0	0	0	0
Utah	6,638	7,677	-14.0%	6,442	7,405	196	273	0	0	0	0
Wyoming	13,495	14,441	-6.6%	13,091	14,039	346	348	0	0	58	54
Pacific Contiguous	2,074	3,539	-41.0%	702	858	1,330	2,646	0	0	42	34
California	38	30	25.0%	0	0	0	0	0	0	38	30
Oregon	702	858	-18.0%	702	858	0	0	0	0	0	0
Washington	1,334	2,650	-50.0%	0	0	1,330	2,646	0	0	5	4
Pacific Noncontiguous	793	832	-4.7%	231	248	538	563	25	20	0	0
Alaska	364	365	-0.4%	231	248	109	97	25	20	0	0
Hawaii	429	467	-8.1%	0	0	429	467	0	0	0	0
U.S. Total	285,170	370,630	-23.0%	214,344	276,717	69,552	92,386	44	51	1,230	1,476

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, August 2020 and August 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	21	27	-23.0%	3	3	15	17	2	6	1	1
Connecticut	7	5	32.0%	1	1	6	5	0	0	0	0
Maine	2	5	-60.0%	0	0	1	3	0	1	1	1
Massachusetts	9	14	-34.0%	NM	1	NM	9	1	5	0	0
New Hampshire	1	2	-32.0%	1	1	NM	0	0	0	0	0
Rhode Island	NM	0	NM	0	0	NM	0	0	0	NM	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	86	66	30.0%	30	7	52	57	3	0	2	2
New Jersey	3	2	106.0%	0	0	3	2	0	0	0	0
New York	62	24	158.0%	29	7	31	17	NM	0	0	0
Pennsylvania	21	40	-49.0%	0	0	18	38	2	0	1	2
East North Central	92	66	40.0%	68	46	23	18	0	0	1	1
Illinois	9	8	23.0%	1	1	8	6	0	0	0	0
Indiana	22	16	36.0%	22	15	0	0	0	0	0	1
Michigan	36	21	73.0%	35	20	0	0	NM	0	1	0
Ohio	17	14	19.0%	2	2	15	12	0	0	0	0
Wisconsin	NM	7	NM	NM	7	0	0	NM	0	NM	0
West North Central	63	52	20.0%	59	51	NM	1	2	0	0	0
Iowa	11	13	-19.0%	10	13	NM	1	0	0	0	0
Kansas	11	13	-15.0%	11	13	0	0	0	0	0	0
Minnesota	11	4	151.0%	NM	4	NM	0	2	0	0	0
Missouri	21	11	96.0%	21	11	0	0	0	0	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	4	3	6.8%	4	3	0	0	0	0	0	0
South Dakota	NM	5	NM	NM	5	0	0	NM	0	0	0
South Atlantic	192	300	-36.0%	138	257	34	26	16	12	5	5
Delaware	4	2	109.0%	0	0	4	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	29	67	-57.0%	27	65	1	1	0	0	1	2
Georgia	10	11	-12.0%	7	8	NM	0	NM	1	2	2
Maryland	19	13	48.0%	NM	0	18	12	NM	0	0	0
North Carolina	25	21	20.0%	24	19	NM	0	NM	0	1	1
South Carolina	9	12	-18.0%	9	11	0	0	NM	0	0	0
Virginia	73	154	-52.0%	48	134	10	10	15	11	NM	0
West Virginia	23	20	15.0%	23	20	0	0	0	0	0	0
East South Central	36	33	9.8%	35	31	NM	0	0	0	NM	1
Alabama	NM	1	NM	1	0	NM	0	0	0	NM	1
Kentucky	9	10	-17.0%	9	10	0	0	0	0	0	0
Mississippi	0	2	-79.0%	0	2	0	0	0	0	0	0
Tennessee	26	19	34.0%	26	19	0	0	0	0	0	0
West South Central	18	19	-0.2%	12	17	6	1	0	0	0	1
Arkansas	6	3	154.0%	3	2	4	0	0	0	NM	0
Louisiana	2	4	-50.0%	2	4	0	0	0	0	0	0
Oklahoma	3	5	-48.0%	2	5	0	0	0	0	0	0
Texas	7	7	8.1%	5	6	2	1	0	0	0	0
Mountain	84	72	17.0%	82	69	NM	2	NM	0	0	0
Arizona	4	8	-48.0%	4	8	0	0	NM	0	0	0
Colorado	NM	1	NM	NM	1	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	NM	1	NM	NM	0	NM	1	0	0	0	0
Nevada	1	2	-61.0%	1	2	0	0	0	0	0	0
New Mexico	62	46	35.0%	62	46	0	0	0	0	0	0
Utah	5	6	-9.9%	5	5	1	1	0	0	0	0
Wyoming	9	8	14.0%	9	8	0	0	0	0	0	0
Pacific Contiguous	21	10	107.0%	8	8	11	2	NM	0	NM	0
California	14	8	78.0%	6	7	7	1	0	0	1	0
Oregon	NM	1	NM	NM	1	0	0	NM	0	0	0
Washington	NM	1	NM	NM	0	3	1	0	0	NM	0
Pacific Noncontiguous	1,062	1,226	-13.0%	881	984	167	217	2	2	12	23
Alaska	167	134	24.0%	162	127	NM	0	0	0	5	6
Hawaii	895	1,092	-18.0%	720	856	167	217	1	2	8	17
U.S. Total	1,674	1,868	-10.0%	1,316	1,473	311	340	24	21	23	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.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through August 2020 and August 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	167	270	-38.0%	30	36	116	196	15	28	7	9
Connecticut	49	55	-11.0%	6	5	42	45	0	3	0	2
Maine	33	38	-13.0%	0	0	24	26	3	5	6	6
Massachusetts	57	134	-58.0%	9	8	43	115	4	10	0	1
New Hampshire	20	31	-34.0%	13	20	NM	2	7	8	0	0
Rhode Island	6	10	-38.0%	0	0	NM	8	0	1	NM	0
Vermont	2	2	1.3%	2	2	0	0	0	0	0	0
Middle Atlantic	538	1,215	-56.0%	169	401	337	766	14	21	17	28
New Jersey	38	86	-56.0%	0	3	37	81	0	2	0	1
New York	350	801	-56.0%	169	398	170	379	7	12	4	12
Pennsylvania	150	328	-54.0%	0	0	130	305	7	7	13	16
East North Central	582	664	-12.0%	398	430	179	222	1	3	4	8
Illinois	53	65	-20.0%	9	10	43	55	0	0	0	0
Indiana	158	173	-8.7%	157	168	0	0	0	NM	1	5
Michigan	147	129	14.0%	146	127	0	0	0	2	1	1
Ohio	151	215	-30.0%	18	51	132	162	0	0	1	2
Wisconsin	73	81	-10.0%	69	74	3	5	NM	1	0	0
West North Central	474	540	-12.0%	461	525	9	12	3	2	1	1
Iowa	89	97	-8.3%	85	92	3	4	0	0	0	0
Kansas	115	106	7.8%	115	106	0	0	0	0	0	0
Minnesota	60	60	0.3%	51	49	NM	8	3	2	1	1
Missouri	128	173	-26.0%	128	173	0	0	0	0	0	0
Nebraska	23	30	-22.0%	23	30	0	0	0	0	0	0
North Dakota	44	50	-12.0%	44	50	0	0	0	0	0	0
South Dakota	15	24	-35.0%	15	23	0	0	NM	0	0	0
South Atlantic	1,169	1,633	-28.0%	842	1,251	189	253	100	84	38	44
Delaware	16	32	-50.0%	0	0	16	32	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	234	403	-42.0%	217	389	8	4	0	0	9	10
Georgia	86	124	-31.0%	68	92	NM	5	1	5	14	21
Maryland	125	127	-1.4%	2	3	124	123	NM	0	0	1
North Carolina	169	266	-36.0%	159	252	4	7	NM	2	6	5
South Carolina	78	104	-26.0%	72	96	1	3	NM	0	4	5
Virginia	284	423	-33.0%	146	267	35	77	97	76	6	3
West Virginia	177	153	16.0%	177	151	0	2	0	0	0	0
East South Central	260	363	-28.0%	254	352	2	3	0	0	5	8
Alabama	10	23	-56.0%	6	16	1	3	0	0	2	5
Kentucky	92	105	-13.0%	92	105	0	0	0	0	0	0
Mississippi	10	20	-50.0%	8	19	0	0	0	0	1	1
Tennessee	148	215	-31.0%	147	213	0	0	0	0	1	2
West South Central	172	182	-5.6%	132	137	38	39	0	1	2	6
Arkansas	59	51	14.0%	46	34	12	16	0	0	NM	2
Louisiana	20	28	-29.0%	20	28	0	0	0	0	0	0
Oklahoma	27	29	-7.6%	26	27	0	0	0	0	1	2
Texas	67	74	-9.5%	40	48	26	23	0	1	1	2
Mountain	658	687	-4.3%	645	665	13	22	NM	0	0	0
Arizona	46	83	-44.0%	46	83	0	0	NM	0	0	0
Colorado	12	17	-28.0%	12	17	0	0	0	0	0	0
Idaho	0	0	-58.0%	0	0	0	0	0	0	0	0
Montana	10	20	-52.0%	NM	4	9	17	0	0	0	0
Nevada	9	18	-53.0%	7	15	2	3	0	0	0	0
New Mexico	483	453	6.8%	483	453	0	0	0	0	0	0
Utah	45	43	4.1%	43	41	2	2	0	0	0	0
Wyoming	53	53	-0.6%	52	53	0	0	0	0	0	0
Pacific Contiguous	94	93	1.2%	55	57	27	18	1	1	11	16
California	62	62	0.3%	42	45	16	6	0	1	4	11
Oregon	6	10	-40.0%	6	10	0	0	NM	0	0	0
Washington	25	20	25.0%	7	2	12	12	0	0	7	6
Pacific Noncontiguous	7,939	8,369	-5.1%	6,519	6,597	1,242	1,577	19	16	158	180
Alaska	1,208	970	25.0%	1,162	921	3	3	4	5	39	41
Hawaii	6,731	7,400	-9.0%	5,357	5,676	1,240	1,574	15	11	119	139
U.S. Total	12,053	14,016	-14.0%	9,506	10,452	2,151	3,108	153	155	243	301

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, August 2020 and August 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 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	1	1	-43.0%	0	0	0	0	0	0	1	1
New Jersey	1	1	25.0%	0	0	0	0	0	0	1	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	1	-100.0%	0	0	0	0	0	0	0	1
East North Central	81	83	-3.4%	46	34	29	43	0	0	6	7
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	47	36	30.0%	40	29	0	0	0	0	6	6
Ohio	29	43	-33.0%	0	0	29	43	0	0	0	0
Wisconsin	5	4	25.0%	5	4	0	0	0	0	0	0
West North Central	1	0	257.0%	0	0	0	0	0	0	1	0
Iowa	1	0	257.0%	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	64	33	93.0%	61	30	0	0	0	0	4	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	61	30	101.0%	61	30	0	0	0	0	0	0
Georgia	4	3	20.0%	0	0	0	0	0	0	4	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	143	143	-0.1%	139	139	0	0	0	0	4	4
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	139	139	-0.4%	139	139	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	4	10.0%	0	0	0	0	0	0	4	4
Mountain	15	15	1.0%	0	0	15	15	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	15	1.0%	0	0	15	15	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	305	276	10.0%	245	203	44	58	0	0	16	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through August 2020 and August 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 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	3	9	-70.0%	0	0	0	0	0	0	3	9
New Jersey	3	5	-40.0%	0	0	0	0	0	0	3	5
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	530	599	-11.0%	295	292	191	265	0	0	44	41
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	311	306	1.5%	267	265	0	0	0	0	44	41
Ohio	191	266	-28.0%	0	0	191	265	0	0	0	0
Wisconsin	28	27	3.8%	28	27	0	0	0	0	0	0
West North Central	7	10	-33.0%	0	0	0	0	1	1	6	9
Iowa	7	10	-33.0%	0	0	0	0	1	1	6	9
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	430	333	29.0%	404	310	0	0	0	0	26	23
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	404	310	30.0%	404	310	0	0	0	0	0	0
Georgia	26	23	13.0%	0	0	0	0	0	0	26	23
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	1,052	1,017	3.5%	1,025	980	0	0	0	0	28	37
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,025	981	4.5%	1,025	980	0	0	0	0	0	1
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	28	36	-23.0%	0	0	0	0	0	0	28	36
Mountain	111	116	-4.1%	0	0	111	116	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	111	116	-4.1%	0	0	111	116	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,133	2,084	2.4%	1,724	1,582	302	381	1	1	107	120

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, August 2020 and August 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	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	40,742	40,690	0.1%	480	249	38,952	38,967	541	582	769	891
Connecticut	16,095	15,466	4.1%	20	44	15,547	14,817	214	248	313	357
Maine	1,418	1,187	20.0%	0	0	1,177	965	13	13	229	209
Massachusetts	13,430	12,849	4.5%	NM	204	12,633	12,238	280	292	79	115
New Hampshire	3,178	3,875	-18.0%	21	1	3,139	3,854	4	4	14	16
Rhode Island	6,618	7,312	-9.5%	0	0	6,456	7,093	28	25	134	194
Vermont	3	1	227.0%	2	0	0	0	1	0	0	0
Middle Atlantic	169,400	147,984	14.0%	13,503	11,357	153,790	134,242	815	987	1,291	1,397
New Jersey	26,398	30,489	-13.0%	NM	188	25,834	29,906	145	172	209	223
New York	51,254	44,766	14.0%	13,289	11,168	37,037	32,536	608	744	320	318
Pennsylvania	91,748	72,729	26.0%	4	2	90,920	71,800	61	71	763	856
East North Central	122,332	119,768	2.1%	43,926	42,591	74,985	73,946	728	743	2,694	2,488
Illinois	23,315	21,169	10.0%	2,699	1,615	20,017	18,999	188	210	411	345
Indiana	22,182	21,590	2.7%	10,638	9,605	10,062	10,599	95	98	1,387	1,288
Michigan	25,080	27,887	-10.0%	10,465	13,230	14,060	14,113	274	267	281	276
Ohio	36,358	34,685	4.8%	6,316	6,155	29,772	28,303	125	126	145	101
Wisconsin	15,397	14,437	6.7%	13,808	11,987	1,073	1,932	47	41	469	477
West North Central	28,369	32,508	-13.0%	23,971	26,189	3,964	5,797	169	168	265	353
Iowa	4,004	6,558	-39.0%	3,812	6,237	NM	0	66	57	126	264
Kansas	3,353	3,663	-8.5%	3,280	3,650	0	0	0	0	73	12
Minnesota	8,150	9,982	-18.0%	5,975	6,949	2,100	2,963	37	32	38	38
Missouri	8,325	7,566	10.0%	6,389	4,652	1,864	2,834	62	73	10	7
Nebraska	1,788	2,095	-15.0%	1,783	2,089	0	0	5	6	0	0
North Dakota	1,508	1,673	-9.9%	1,489	1,663	0	0	0	0	18	10
South Dakota	1,242	972	28.0%	1,242	949	0	0	0	0	0	23
South Atlantic	297,123	291,908	1.8%	241,677	237,432	51,672	50,695	1,079	1,225	2,696	2,556
Delaware	5,321	5,167	3.0%	72	59	4,776	4,598	0	0	474	510
District of Columbia	167	153	9.2%	0	0	0	0	167	153	0	0
Florida	139,075	135,175	2.9%	132,344	127,890	5,950	6,481	12	8	769	796
Georgia	45,026	44,570	1.0%	33,684	33,859	11,020	10,394	0	0	321	317
Maryland	10,158	10,683	-4.9%	1,935	2,851	7,393	6,891	809	920	22	21
North Carolina	30,735	29,423	4.5%	24,611	23,097	5,954	6,124	91	139	78	63
South Carolina	18,316	19,139	-4.3%	17,496	18,248	726	823	0	0	94	68
Virginia	45,556	44,990	1.3%	31,398	30,977	13,453	13,464	0	6	705	544
West Virginia	2,770	2,609	6.2%	138	451	2,399	1,920	0	0	232	237
East South Central	104,028	109,088	-4.6%	75,444	80,711	26,761	26,265	95	92	1,728	2,020
Alabama	41,847	44,152	-5.2%	15,195	17,186	26,047	26,031	0	0	605	934
Kentucky	10,957	10,485	4.5%	10,186	10,192	692	218	0	0	79	75
Mississippi	40,273	41,307	-2.5%	40,028	41,056	7	1	0	0	237	251
Tennessee	10,952	13,144	-17.0%	10,035	12,277	16	15	95	92	807	760
West South Central	316,544	354,850	-11.0%	128,122	144,818	152,146	171,120	506	548	35,770	38,365
Arkansas	15,763	17,973	-12.0%	15,085	17,148	550	645	NM	54	89	126
Louisiana	49,934	52,309	-4.5%	33,616	32,902	3,282	4,895	59	75	12,976	14,437
Oklahoma	39,288	46,054	-15.0%	27,144	31,714	11,806	14,008	0	0	338	331
Texas	211,559	238,514	-11.0%	52,277	63,053	136,508	151,572	407	419	22,367	23,470
Mountain	112,424	104,970	7.1%	93,421	86,548	17,654	17,281	187	209	1,162	933
Arizona	44,992	42,400	6.1%	36,081	33,117	8,856	9,230	55	53	0	0
Colorado	16,489	13,988	18.0%	13,317	11,639	3,139	2,316	3	1	30	33
Idaho	3,539	3,631	-2.5%	2,289	2,411	1,186	1,154	14	14	50	51
Montana	NM	636	NM	NM	475	NM	161	0	0	0	0
Nevada	24,084	23,418	2.8%	22,280	21,747	1,370	1,318	24	25	410	328
New Mexico	12,259	12,588	-2.6%	9,155	9,472	3,045	3,055	46	59	12	2
Utah	8,782	7,726	14.0%	8,474	7,312	0	45	44	58	264	312
Wyoming	1,830	583	214.0%	1,431	375	4	2	0	0	395	207
Pacific Contiguous	110,793	102,118	8.5%	42,395	44,317	61,034	50,370	861	939	6,503	6,492
California	86,541	71,199	22.0%	28,440	25,348	51,195	38,791	842	918	6,065	6,141
Oregon	13,105	16,105	-19.0%	6,703	8,669	6,342	7,379	17	20	44	37
Washington	11,147	14,814	-25.0%	7,253	10,301	3,497	4,200	2	0	395	314
Pacific Noncontiguous	2,551	1,968	30.0%	2,530	1,944	0	0	0	0	21	24
Alaska	2,551	1,968	30.0%	2,530	1,944	0	0	0	0	21	24
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,304,306	1,305,852	-0.1%	665,469	676,156	580,958	568,683	4,980	5,493	52,899	55,519

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through August 2020 and August 2019 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	248,083	239,242	3.7%	1,990	1,162	236,423	228,136	3,681	3,984	5,988	5,960
Connecticut	110,898	99,969	11.0%	195	318	106,698	95,527	1,501	1,642	2,503	2,482
Maine	9,203	8,094	14.0%	0	0	7,535	6,514	103	98	1,565	1,481
Massachusetts	70,298	79,317	-11.0%	1,601	787	65,949	75,571	1,888	2,052	859	906
New Hampshire	18,316	16,314	12.0%	183	47	17,995	16,110	24	33	113	125
Rhode Island	39,354	35,535	11.0%	0	0	38,245	34,413	162	155	948	966
Vermont	14	14	3.9%	10	10	0	0	4	4	0	0
Middle Atlantic	987,856	879,141	12.0%	67,796	64,476	905,194	798,828	5,506	6,007	9,360	9,830
New Jersey	151,919	185,983	-18.0%	1,061	1,057	148,330	182,266	942	1,146	1,586	1,514
New York	277,704	253,421	9.6%	66,707	63,398	204,349	183,216	4,134	4,328	2,514	2,480
Pennsylvania	558,232	439,737	27.0%	27	21	552,515	433,346	430	533	5,260	5,836
East North Central	870,928	780,958	12.0%	313,011	268,011	532,012	488,002	5,019	5,140	20,886	19,806
Illinois	150,469	118,616	27.0%	17,705	7,526	128,974	107,478	1,205	1,225	2,586	2,387
Indiana	163,828	147,837	11.0%	76,729	64,003	75,590	72,503	644	669	10,865	10,662
Michigan	186,233	167,814	11.0%	74,157	63,677	107,561	99,691	2,046	2,140	2,468	2,306
Ohio	260,312	248,851	4.6%	45,512	46,534	212,985	200,592	755	784	1,059	941
Wisconsin	110,086	97,841	13.0%	98,907	86,271	6,902	7,738	368	321	3,908	3,510
West North Central	183,373	179,883	1.9%	150,677	150,370	29,022	25,699	1,179	1,207	2,495	2,606
Iowa	32,448	33,171	-2.2%	30,783	31,101	NM	0	395	399	1,268	1,670
Kansas	18,452	19,672	-6.2%	17,835	19,350	0	0	0	0	617	322
Minnesota	57,689	57,001	1.2%	42,366	44,990	14,651	11,301	312	321	360	390
Missouri	47,288	44,072	7.3%	32,383	29,149	14,369	14,399	442	453	94	71
Nebraska	9,888	9,518	3.9%	9,859	9,484	0	0	29	34	0	0
North Dakota	10,329	9,421	9.6%	10,173	9,345	0	0	0	0	156	76
South Dakota	7,278	7,027	3.6%	7,278	6,950	0	0	0	0	0	77
South Atlantic	1,997,709	1,901,116	5.1%	1,632,585	1,559,600	336,513	313,185	7,739	8,825	20,872	19,506
Delaware	25,200	25,226	-0.1%	203	254	21,202	21,188	0	0	3,795	3,784
District of Columbia	962	996	-3.4%	0	0	0	0	962	996	0	0
Florida	930,632	893,491	4.2%	884,010	849,561	40,719	38,162	88	70	5,814	5,697
Georgia	296,687	284,207	4.4%	223,335	214,965	70,663	67,069	0	1	2,690	2,172
Maryland	72,322	74,996	-3.6%	14,991	20,684	51,228	47,319	5,953	6,759	150	234
North Carolina	211,821	205,323	3.2%	169,781	161,812	40,755	42,046	693	948	592	518
South Carolina	126,499	120,530	5.0%	122,044	114,467	3,638	5,504	0	0	818	559
Virginia	317,614	286,365	11.0%	217,476	196,208	94,756	85,196	43	51	5,340	4,910
West Virginia	15,972	9,983	60.0%	747	1,649	13,552	6,701	0	0	1,674	1,633
East South Central	696,288	677,430	2.8%	509,184	494,390	173,166	167,956	708	624	13,229	14,460
Alabama	271,147	279,696	-3.1%	98,621	108,185	167,855	165,171	0	0	4,671	6,340
Kentucky	75,323	71,703	5.0%	69,509	68,401	5,171	2,659	0	0	643	643
Mississippi	267,908	239,694	12.0%	265,973	237,824	37	22	0	0	1,898	1,848
Tennessee	81,909	86,337	-5.1%	75,081	79,980	103	104	708	624	6,017	5,629
West South Central	1,978,973	1,947,310	1.6%	801,534	763,601	899,774	903,352	3,127	3,307	274,538	277,050
Arkansas	91,755	106,028	-13.0%	85,993	99,848	4,673	4,793	304	325	786	1,062
Louisiana	350,968	347,628	1.0%	228,604	213,382	20,379	25,898	537	467	101,449	107,880
Oklahoma	252,202	230,913	9.2%	170,726	152,315	78,850	76,339	0	0	2,626	2,259
Texas	1,284,047	1,262,741	1.7%	316,212	298,056	795,872	796,322	2,286	2,514	169,678	165,849
Mountain	641,571	593,558	8.1%	522,735	484,068	109,035	100,198	1,405	1,498	8,395	7,794
Arizona	256,744	230,420	11.0%	202,081	179,068	54,268	50,948	395	404	0	0
Colorado	99,808	87,440	14.0%	83,441	72,891	16,090	14,310	32	8	245	231
Idaho	21,299	19,785	7.7%	12,758	11,989	8,017	7,324	115	110	409	362
Montana	2,909	3,606	-19.0%	2,620	2,676	277	924	0	0	12	7
Nevada	135,550	128,106	5.8%	123,432	116,153	10,103	9,950	165	180	1,850	1,822
New Mexico	71,574	69,829	2.5%	51,125	53,431	19,984	15,993	331	353	133	53
Utah	46,279	49,938	-7.3%	43,152	45,751	283	738	367	443	2,477	3,006
Wyoming	7,408	4,434	67.0%	4,126	2,109	13	11	0	0	3,269	2,314
Pacific Contiguous	545,200	525,726	3.7%	219,469	212,249	271,392	258,671	6,231	6,835	48,107	47,971
California	400,131	372,081	7.5%	133,154	126,345	216,050	194,021	6,043	6,658	44,885	45,056
Oregon	81,435	88,812	-8.3%	41,446	43,090	39,367	45,270	152	148	469	304
Washington	63,634	64,833	-1.8%	44,870	42,814	15,975	19,379	36	29	2,753	2,611
Pacific Noncontiguous	16,888	17,026	-0.8%	16,707	16,825	0	0	0	0	180	200
Alaska	16,888	17,026	-0.8%	16,707	16,825	0	0	0	0	180	200
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	8,166,867	7,741,391	5.5%	4,235,690	4,014,751	3,492,531	3,284,027	34,597	37,427	404,050	405,186

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, August 2020 and August 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	979	1,102	-11.0%	91	125	868	956	19	21	0	0
Connecticut	NM	15	NM	0	0	NM	15	0	0	0	0
Maine	58	59	-2.1%	0	0	58	59	0	0	0	0
Massachusetts	313	323	-3.1%	0	0	313	323	0	0	0	0
New Hampshire	111	176	-37.0%	0	0	92	155	19	21	0	0
Rhode Island	370	381	-2.9%	0	0	370	381	0	0	0	0
Vermont	111	148	-25.0%	91	125	NM	23	0	0	0	0
Middle Atlantic	3,200	4,230	-24.0%	0	0	3,083	4,076	NM	58	62	96
New Jersey	391	576	-32.0%	0	0	375	560	NM	16	0	0
New York	1,319	1,471	-10.0%	0	0	1,319	1,471	0	0	0	0
Pennsylvania	1,490	2,183	-32.0%	0	0	1,389	2,044	NM	43	62	96
East North Central	5,273	5,012	5.2%	904	843	4,336	4,130	20	22	13	17
Illinois	949	929	2.2%	264	263	685	666	0	0	0	0
Indiana	718	679	5.8%	640	580	79	99	0	0	0	0
Michigan	1,858	1,711	8.6%	0	0	1,858	1,711	0	0	0	0
Ohio	910	898	1.3%	0	0	910	898	0	0	0	0
Wisconsin	838	795	5.3%	0	0	804	757	20	22	13	17
West North Central	809	795	1.8%	283	251	526	544	0	0	0	0
Iowa	204	212	-3.8%	0	0	204	212	0	0	0	0
Kansas	130	133	-1.9%	0	0	130	133	0	0	0	0
Minnesota	156	163	-4.6%	59	65	97	99	0	0	0	0
Missouri	165	180	-8.3%	70	80	95	101	0	0	0	0
Nebraska	155	107	45.0%	155	107	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	4,141	4,019	3.0%	350	314	3,630	3,459	NM	139	NM	107
Delaware	109	106	2.6%	0	0	101	99	0	0	NM	7
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	858	843	1.7%	155	132	702	711	0	0	0	0
Georgia	532	489	8.7%	0	0	531	481	0	0	1	8
Maryland	179	183	-2.6%	0	0	124	120	NM	64	0	0
North Carolina	936	962	-2.8%	0	0	936	902	0	60	0	0
South Carolina	295	285	3.6%	189	174	NM	19	0	0	NM	92
Virginia	1,232	1,149	7.2%	6	8	1,214	1,126	NM	15	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	472	463	1.8%	184	192	287	272	0	0	0	0
Alabama	93	91	2.9%	0	0	93	91	0	0	0	0
Kentucky	199	208	-4.1%	184	192	15	16	0	0	0	0
Mississippi	NM	20	NM	0	0	NM	20	0	0	0	0
Tennessee	156	145	7.8%	0	0	156	145	0	0	0	0
West South Central	965	1,022	-5.6%	0	0	965	1,022	0	0	0	0
Arkansas	140	136	3.4%	0	0	140	136	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	45	42	8.8%	0	0	45	42	0	0	0	0
Texas	779	845	-7.8%	0	0	779	845	0	0	0	0
Mountain	555	582	-4.7%	25	29	465	495	65	58	0	0
Arizona	70	65	8.9%	0	0	70	65	0	0	0	0
Colorado	89	111	-20.0%	0	0	89	111	0	0	0	0
Idaho	70	87	-20.0%	25	29	NM	NM	NM	49	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	159	149	7.1%	0	0	159	149	0	0	0	0
New Mexico	34	35	-3.8%	0	0	34	35	0	0	0	0
Utah	132	135	-1.9%	0	0	104	126	29	9	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,610	4,667	-1.2%	137	144	3,385	3,341	1,089	1,149	0	33
California	4,041	4,069	-0.7%	NM	10	2,969	2,909	1,063	1,117	0	33
Oregon	481	503	-4.5%	128	134	327	337	NM	32	0	0
Washington	89	94	-5.9%	0	0	89	94	0	0	0	0
Pacific Noncontiguous	65	71	-7.7%	0	0	0	0	65	71	0	0
Alaska	65	71	-7.7%	0	0	0	0	65	71	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,068	21,963	-4.1%	1,975	1,898	17,544	18,295	1,381	1,518	169	253

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through August 2020 and August 2019 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	7,597	8,079	-6.0%	705	929	6,764	6,998	127	151	0	0
Connecticut	116	112	3.7%	0	0	116	112	0	0	0	0
Maine	447	463	-3.4%	0	0	447	463	0	0	0	0
Massachusetts	2,418	2,373	1.9%	0	0	2,418	2,373	0	0	0	0
New Hampshire	840	1,298	-35.0%	0	0	713	1,146	127	151	0	0
Rhode Island	2,914	2,734	6.6%	0	0	2,914	2,734	0	0	0	0
Vermont	862	1,098	-22.0%	705	929	157	169	0	0	0	0
Middle Atlantic	29,182	32,153	-9.2%	0	0	28,203	30,989	385	446	594	717
New Jersey	3,399	4,745	-28.0%	0	0	3,288	4,624	110	121	0	0
New York	10,798	10,489	2.9%	0	0	10,798	10,489	0	0	0	0
Pennsylvania	14,986	16,919	-11.0%	0	0	14,117	15,877	275	325	594	717
East North Central	41,628	42,159	-1.3%	7,185	7,068	34,083	34,664	203	261	157	165
Illinois	7,357	7,790	-5.6%	2,072	2,185	5,285	5,605	0	0	0	0
Indiana	5,873	5,645	4.0%	5,113	4,884	760	761	0	0	0	0
Michigan	14,613	14,440	1.2%	0	0	14,613	14,440	0	0	0	0
Ohio	7,030	7,459	-5.8%	0	0	7,030	7,459	0	0	0	0
Wisconsin	6,755	6,825	-1.0%	0	0	6,395	6,399	203	261	157	165
West North Central	6,217	5,800	7.2%	2,087	2,019	4,130	3,781	0	0	0	0
Iowa	1,636	1,474	11.0%	0	0	1,636	1,474	0	0	0	0
Kansas	1,008	925	8.9%	0	0	1,008	925	0	0	0	0
Minnesota	1,199	1,127	6.3%	450	446	749	681	0	0	0	0
Missouri	1,271	1,256	1.2%	534	555	737	701	0	0	0	0
Nebraska	1,102	1,018	8.3%	1,102	1,018	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	33,072	33,578	-1.5%	2,770	2,530	28,788	29,010	641	1,140	873	898
Delaware	846	871	-2.9%	0	0	784	814	0	0	62	57
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,690	7,087	-5.6%	1,276	1,054	5,414	6,033	0	0	0	0
Georgia	4,148	4,076	1.8%	0	0	4,075	3,988	0	0	73	89
Maryland	1,493	1,503	-0.7%	0	0	962	982	531	521	0	0
North Carolina	7,431	7,611	-2.4%	0	0	7,431	7,119	0	492	0	0
South Carolina	2,358	2,332	1.1%	1,458	1,425	162	156	0	0	737	752
Virginia	10,106	10,097	0.1%	36	51	9,961	9,919	109	128	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,658	3,570	2.5%	1,423	1,473	2,234	2,097	0	0	0	0
Alabama	721	696	3.6%	0	0	721	696	0	0	0	0
Kentucky	1,550	1,605	-3.5%	1,423	1,473	126	132	0	0	0	0
Mississippi	181	157	15.0%	0	0	181	157	0	0	0	0
Tennessee	1,206	1,111	8.5%	0	0	1,206	1,111	0	0	0	0
West South Central	7,469	8,007	-6.7%	0	0	7,469	7,818	0	189	0	0
Arkansas	1,086	994	9.3%	0	0	1,086	994	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	352	306	15.0%	0	0	352	306	0	0	0	0
Texas	6,031	6,707	-10.0%	0	0	6,031	6,518	0	189	0	0
Mountain	4,344	4,519	-3.9%	192	221	3,643	3,808	508	490	0	0
Arizona	545	497	9.5%	0	0	545	497	0	0	0	0
Colorado	689	854	-19.0%	0	0	689	854	0	0	0	0
Idaho	545	629	-13.0%	192	221	66	73	287	335	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,230	1,143	7.7%	0	0	1,230	1,143	0	0	0	0
New Mexico	264	273	-3.3%	0	0	264	273	0	0	0	0
Utah	1,071	1,123	-4.6%	0	0	850	968	221	155	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	35,789	34,047	5.1%	1,031	1,083	25,921	24,800	8,838	7,921	0	243
California	31,410	29,607	6.1%	63	73	22,720	21,607	8,627	7,684	0	243
Oregon	3,692	3,730	-1.0%	968	1,010	2,514	2,482	211	237	0	0
Washington	687	710	-3.3%	0	0	687	710	0	0	0	0
Pacific Noncontiguous	514	461	11.0%	0	0	0	0	514	461	0	0
Alaska	514	461	11.0%	0	0	0	0	514	461	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	169,469	172,372	-1.7%	15,394	15,323	141,235	143,965	11,216	11,060	1,624	2,023

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, August 2020 and August 2019 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	284	305	-6.9%	0	0	273	294	10	11	0	0
Connecticut	103	104	-1.1%	0	0	103	104	0	0	0	0
Maine	20	20	-3.2%	0	0	10	10	10	11	0	0
Massachusetts	151	170	-11.0%	0	0	151	170	0	0	0	0
New Hampshire	9	10	-5.0%	0	0	9	10	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	443	458	-3.3%	0	0	352	355	91	103	0	0
New Jersey	111	113	-1.2%	0	0	82	84	30	29	0	0
New York	167	177	-5.5%	0	0	124	127	43	50	0	0
Pennsylvania	165	168	-2.2%	0	0	147	145	18	24	0	0
East North Central	14	15	-6.4%	2	3	0	0	12	11	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	1	24.0%	0	0	0	0	2	1	0	0
Michigan	10	10	0.5%	0	0	0	0	10	10	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	2	3	-42.0%	2	3	0	0	0	0	0	0
West North Central	44	47	-6.0%	24	25	20	21	NM	1	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	44	47	-6.0%	24	25	20	21	NM	1	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	480	475	0.9%	0	0	442	439	37	37	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	322	321	0.3%	0	0	322	321	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	56	57	-1.8%	0	0	56	57	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	102	98	4.2%	0	0	65	61	37	37	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	24.0%	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	24.0%	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	57	58	-1.5%	0	0	57	58	0	0	0	0
California	35	35	-1.7%	0	0	35	35	0	0	0	0
Oregon	10	10	-2.7%	0	0	10	10	0	0	0	0
Washington	13	13	0.0%	0	0	13	13	0	0	0	0
Pacific Noncontiguous	34	38	-8.8%	0	0	0	0	34	38	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	34	38	-8.8%	0	0	0	0	34	38	0	0
U.S. Total	1,357	1,396	-2.8%	26	29	1,145	1,167	185	200	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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through August 2020 and August 2019 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	2,180	2,229	-2.2%	0	0	2,098	2,134	82	95	0	0
Connecticut	778	758	2.6%	0	0	778	758	0	0	0	0
Maine	156	168	-7.3%	0	0	74	73	82	95	0	0
Massachusetts	1,171	1,225	-4.4%	0	0	1,171	1,225	0	0	0	0
New Hampshire	76	77	-2.3%	0	0	76	77	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	3,391	3,403	-0.3%	0	0	2,687	2,646	704	757	0	0
New Jersey	865	850	1.8%	0	0	640	629	224	221	0	0
New York	1,247	1,287	-3.1%	0	0	933	911	314	376	0	0
Pennsylvania	1,279	1,266	1.1%	0	0	1,113	1,106	166	160	0	0
East North Central	111	125	-11.0%	20	24	0	0	90	101	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	14	12	18.0%	0	0	0	0	14	12	0	0
Michigan	76	89	-14.0%	0	0	0	0	76	89	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	20	24	-14.0%	20	24	0	0	0	0	0	0
West North Central	317	322	-1.8%	166	180	151	135	0	7	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	317	322	-1.8%	166	180	151	135	0	7	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	3,497	3,577	-2.2%	0	0	3,215	3,291	282	287	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	2,386	2,394	-0.3%	0	0	2,386	2,394	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	349	417	-16.0%	0	0	349	417	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	762	766	-0.5%	0	0	480	479	282	287	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	8	7	11.0%	0	0	0	0	0	0	8	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	8	7	11.0%	0	0	0	0	0	0	8	7
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	426	431	-1.0%	0	0	426	431	0	0	0	0
California	250	255	-1.8%	0	0	250	255	0	0	0	0
Oregon	74	75	-0.6%	0	0	74	75	0	0	0	0
Washington	102	101	0.8%	0	0	102	101	0	0	0	0
Pacific Noncontiguous	288	303	-4.9%	0	0	0	0	288	303	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	288	303	-4.9%	0	0	0	0	288	303	0	0
U.S. Total	10,217	10,395	-1.7%	186	204	8,577	8,636	1,446	1,549	8	7

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, August 2020 and August 2019 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	3,270	3,898	-16.0%	310	891	2,477	2,498	0	1	483	509
Connecticut	NM	278	NM	0	0	NM	278	0	0	0	0
Maine	1,307	1,253	4.3%	0	0	824	745	0	0	483	509
Massachusetts	NM	177	NM	0	0	NM	177	0	0	0	0
New Hampshire	1,096	1,543	-29.0%	0	445	1,096	1,098	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	456	646	-30.0%	310	446	NM	200	0	1	0	0
Middle Atlantic	738	734	0.5%	0	0	511	514	0	0	227	220
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	589	595	-1.0%	0	0	511	514	0	0	NM	81
Pennsylvania	149	139	6.9%	0	0	0	0	0	0	149	139
East North Central	2,133	2,034	4.8%	540	422	1,091	1,023	0	0	501	590
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,317	1,304	1.0%	0	0	1,082	1,010	0	0	236	294
Ohio	91	111	-18.0%	0	0	10	13	0	0	82	98
Wisconsin	724	620	17.0%	540	422	0	0	0	0	184	198
West North Central	482	383	26.0%	NM	0	NM	107	75	49	243	227
Iowa	5	7	-35.0%	0	0	0	0	5	7	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	446	357	25.0%	NM	0	NM	107	39	23	243	227
Missouri	31	19	67.0%	0	0	0	0	31	19	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	10,668	11,511	-7.3%	2,184	2,467	3,412	3,288	14	14	5,058	5,742
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	1,482	1,768	-16.0%	595	812	NM	188	0	0	745	768
Georgia	3,696	3,536	4.5%	0	0	1,613	1,112	0	0	2,083	2,424
Maryland	14	14	4.5%	0	0	0	0	14	14	0	0
North Carolina	1,212	1,405	-14.0%	0	0	767	874	0	0	445	531
South Carolina	1,447	1,535	-5.7%	0	0	621	664	0	0	826	871
Virginia	2,817	3,253	-13.0%	1,589	1,655	NM	450	0	0	959	1,149
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,884	3,178	-9.3%	0	0	0	0	0	0	2,884	3,178
Alabama	1,922	2,036	-5.6%	0	0	0	0	0	0	1,922	2,036
Kentucky	121	141	-14.0%	0	0	0	0	0	0	121	141
Mississippi	591	619	-4.6%	0	0	0	0	0	0	591	619
Tennessee	251	383	-34.0%	0	0	0	0	0	0	251	383
West South Central	2,689	3,210	-16.0%	710	945	0	0	0	0	1,978	2,265
Arkansas	397	526	-24.0%	0	0	0	0	0	0	397	526
Louisiana	996	1,094	-9.0%	0	0	0	0	0	0	996	1,094
Oklahoma	166	151	10.0%	0	0	0	0	0	0	166	151
Texas	1,129	1,438	-21.0%	710	945	0	0	0	0	419	493
Mountain	569	594	-4.2%	0	0	388	442	0	0	181	151
Arizona	NM	294	NM	0	0	NM	294	0	0	0	0
Colorado	116	117	-0.8%	0	0	116	117	0	0	0	0
Idaho	184	161	14.0%	0	0	25	32	0	0	158	129
Montana	23	22	2.8%	0	0	0	0	0	0	23	22
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	5,868	6,370	-7.9%	359	481	3,598	3,821	0	0	1,911	2,068
California	4,301	4,390	-2.0%	0	0	3,344	3,443	0	0	957	947
Oregon	632	768	-18.0%	0	0	NM	378	0	0	378	390
Washington	936	1,212	-23.0%	359	481	0	0	0	0	577	731
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	29,300	31,913	-8.2%	4,169	5,205	11,575	11,694	89	63	13,467	14,951

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through August 2020 and August 2019 (Billion Btus)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	23,550	29,640	-21.0%	2,674	5,210	17,132	20,486	4	7	3,739	3,937
Connecticut	1,809	2,062	-12.0%	0	0	1,809	2,062	0	0	0	0
Maine	9,563	11,218	-15.0%	0	0	5,824	7,281	0	0	3,739	3,937
Massachusetts	1,192	1,276	-6.6%	0	0	1,192	1,276	0	0	0	0
New Hampshire	7,655	11,313	-32.0%	388	2,968	7,268	8,345	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,331	3,771	-12.0%	2,287	2,242	1,040	1,522	4	7	0	0
Middle Atlantic	5,520	5,577	-1.0%	0	0	3,826	3,705	0	0	1,695	1,873
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	4,389	4,340	1.1%	0	0	3,825	3,703	0	0	563	637
Pennsylvania	1,132	1,237	-8.5%	0	0	0	1	0	0	1,131	1,236
East North Central	13,489	16,137	-16.0%	2,934	3,390	6,287	8,139	0	0	4,268	4,608
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	8,238	10,399	-21.0%	0	0	6,225	8,049	0	0	2,013	2,350
Ohio	799	752	6.3%	0	0	62	90	0	0	737	661
Wisconsin	4,452	4,986	-11.0%	2,934	3,390	0	0	0	0	1,518	1,596
West North Central	3,203	3,289	-2.6%	287	304	763	779	285	313	1,868	1,894
Iowa	36	46	-22.0%	0	0	0	0	36	46	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	3,002	3,096	-3.0%	287	304	763	779	84	120	1,868	1,894
Missouri	165	148	12.0%	0	0	0	0	165	148	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	80,605	82,507	-2.3%	13,400	16,936	24,984	22,077	100	98	42,122	43,396
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	11,394	13,596	-16.0%	4,304	5,976	1,302	1,712	0	0	5,788	5,908
Georgia	29,667	24,659	20.0%	0	0	12,188	6,939	0	0	17,478	17,720
Maryland	100	355	-72.0%	0	0	0	0	100	98	0	257
North Carolina	9,116	10,046	-9.3%	0	0	4,964	5,989	0	0	4,153	4,057
South Carolina	11,158	11,764	-5.1%	0	0	5,030	5,272	0	0	6,128	6,492
Virginia	19,170	22,087	-13.0%	9,096	10,960	1,500	2,166	0	0	8,574	8,962
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	23,111	22,313	3.6%	0	0	0	0	0	0	23,111	22,313
Alabama	15,455	14,588	5.9%	0	0	0	0	0	0	15,455	14,588
Kentucky	849	823	3.2%	0	0	0	0	0	0	849	823
Mississippi	4,415	4,183	5.6%	0	0	0	0	0	0	4,415	4,183
Tennessee	2,392	2,719	-12.0%	0	0	0	0	0	0	2,392	2,719
West South Central	16,862	19,409	-13.0%	904	1,319	0	0	0	0	15,958	18,090
Arkansas	2,998	4,678	-36.0%	0	0	0	0	0	0	2,998	4,678
Louisiana	8,231	8,628	-4.6%	0	0	0	0	0	0	8,231	8,628
Oklahoma	1,217	1,107	9.9%	0	0	0	0	0	0	1,217	1,107
Texas	4,417	4,995	-12.0%	904	1,319	0	0	0	0	3,513	3,676
Mountain	4,418	4,566	-3.2%	0	0	3,225	3,321	0	0	1,193	1,245
Arizona	2,135	2,277	-6.2%	0	0	2,135	2,277	0	0	0	0
Colorado	877	836	4.8%	0	0	877	836	0	0	0	0
Idaho	1,237	1,293	-4.3%	0	0	213	208	0	0	1,024	1,085
Montana	170	160	6.1%	0	0	0	0	0	0	170	160
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	42,993	44,067	-2.4%	2,656	2,580	26,397	27,464	0	0	13,940	14,024
California	31,066	32,164	-3.4%	0	0	24,696	25,757	0	0	6,371	6,407
Oregon	4,486	4,428	1.3%	0	0	1,701	1,707	0	0	2,785	2,721
Washington	7,440	7,475	-0.5%	2,656	2,580	0	0	0	0	4,784	4,895
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	213,751	227,505	-6.0%	22,855	29,738	82,613	85,970	389	418	107,894	111,378

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Chapter 3

Fossil-Fuel Stocks for Electricity Generation

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

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
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	128,180	25,960	471	104,274	16,435	428	23,906	9,525	43
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	99,147	25,791	528	81,553	16,464	518	17,594	9,327	9
February	98,639	26,154	505	81,173	16,781	494	17,466	9,373	11
March	96,933	26,202	503	79,485	16,870	482	17,449	9,332	21
April	108,089	26,330	513	88,215	16,994	500	19,873	9,336	13
May	115,712	26,407	444	93,476	17,063	434	22,237	9,344	10
June	116,876	26,185	388	93,767	16,862	381	23,108	9,323	7
July	110,672	25,827	354	89,504	16,598	347	21,168	9,230	8
August	110,278	25,208	380	89,054	16,128	372	21,224	9,080	8
Sept	110,626	25,448	292	89,630	16,352	281	20,995	9,096	11
October	118,574	25,413	292	96,205	16,359	277	22,369	9,055	16
November	122,364	25,720	464	99,470	16,480	407	22,894	9,240	57
December	128,180	25,960	471	104,274	16,435	428	23,906	9,525	43
Year 2020, End of Month Stocks									
January	134,364	25,125	508	108,457	16,015	503	25,907	9,110	5
February	139,299	25,000	600	112,181	15,956	584	27,118	9,045	16
March	145,238	25,336	541	116,516	16,285	527	28,722	9,051	14
April	151,744	25,401	541	122,175	16,289	525	29,569	9,111	17
May	154,058	25,552	529	123,768	16,309	518	30,290	9,243	11
June	150,427	25,573	480	120,432	16,180	471	29,995	9,393	9
July	137,907	26,258	445	110,524	16,265	426	27,383	9,993	19
August	129,688	25,245	407	104,205	16,021	400	25,483	9,223	6

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

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	August 2020	August 2019	Percentage Change	August 2020	August 2019	Percentage Change	August 2020	August 2019	Percentage Change
New England	W	467	W	2,978	3,400	-12.4%	0	0	--
Connecticut	W	W	W	1,293	1,197	8.0%	0	0	--
Maine	0	0	--	322	265	21.7%	0	0	--
Massachusetts	0	0	--	726	1,342	-45.9%	0	0	--
New Hampshire	W	W	W	392	355	10.5%	0	0	--
Rhode Island	0	0	--	219	203	8.3%	0	0	--
Vermont	0	0	--	25	39	-35.7%	0	0	--
Middle Atlantic	3,436	4,349	-21.0%	5,165	5,025	2.8%	0	0	--
New Jersey	W	W	W	760	634	19.8%	0	0	--
New York	0	W	W	3,026	3,017	0.3%	0	0	--
Pennsylvania	W	4,197	W	1,378	1,373	0.4%	0	0	--
East North Central	30,524	23,901	27.7%	1,656	1,071	54.7%	W	92	W
Illinois	5,343	4,899	9.1%	74	78	-5.2%	0	0	--
Indiana	10,506	6,960	51.0%	115	81	41.7%	0	W	W
Michigan	4,537	4,016	13.0%	254	274	-7.5%	W	W	W
Ohio	7,013	4,806	45.9%	492	440	12.0%	0	0	--
Wisconsin	3,125	3,220	-3.0%	722	198	264.7%	W	W	W
West North Central	24,986	17,757	40.7%	806	839	-4.0%	0	0	--
Iowa	6,527	3,068	112.7%	113	128	-11.9%	0	0	--
Kansas	3,108	2,651	17.2%	136	117	16.3%	0	0	--
Minnesota	2,851	3,565	-20.0%	97	108	-10.3%	0	0	--
Missouri	8,033	4,870	64.9%	300	320	-6.2%	0	0	--
Nebraska	2,862	2,336	22.5%	79	100	-20.9%	0	0	--
North Dakota	W	W	W	36	25	45.6%	0	0	--
South Dakota	W	W	W	45	43	6.5%	0	0	--
South Atlantic	18,985	20,112	-5.6%	10,447	10,494	-0.5%	W	W	W
Delaware	W	W	W	525	519	1.2%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	2,037	2,935	-30.6%	3,834	3,925	-2.3%	W	W	W
Georgia	4,552	3,991	14.1%	935	830	12.6%	0	0	--
Maryland	1,350	1,542	-12.5%	672	686	-2.0%	0	0	--
North Carolina	2,977	3,493	-14.8%	1,266	1,243	1.9%	0	0	--
South Carolina	1,767	2,466	-28.3%	699	711	-1.6%	0	0	--
Virginia	W	W	W	2,351	2,421	-2.9%	0	0	--
West Virginia	5,616	4,564	23.0%	165	159	3.7%	W	W	W
East South Central	10,326	10,596	-2.5%	1,190	1,187	0.3%	0	0	--
Alabama	3,005	W	W	210	210	0.1%	0	0	--
Kentucky	5,033	5,339	-5.7%	222	226	-1.7%	0	0	--
Mississippi	W	W	W	6	30	-79.1%	0	0	--
Tennessee	W	2,899	W	752	721	4.2%	0	0	--
West South Central	21,013	14,891	41.1%	1,265	1,239	2.1%	W	W	W
Arkansas	3,723	3,480	7.0%	176	164	7.5%	0	0	--
Louisiana	3,503	2,525	38.7%	216	203	6.3%	W	W	W
Oklahoma	2,706	2,349	15.2%	109	92	18.7%	0	0	--
Texas	11,081	6,537	69.5%	764	780	-2.1%	0	0	--
Mountain	18,285	16,629	10.0%	371	385	-3.6%	W	W	W
Arizona	3,661	3,314	10.5%	115	139	-17.0%	0	0	--
Colorado	3,292	3,930	-16.2%	132	121	9.0%	0	0	--
Idaho	0	0	--	0	0	-40.1%	0	0	--
Montana	W	W	W	13	16	-17.3%	W	W	W
Nevada	W	W	W	3	3	14.1%	0	0	--
New Mexico	W	W	W	11	34	-67.8%	0	0	--
Utah	4,511	3,035	48.6%	47	44	7.0%	0	0	--
Wyoming	4,871	3,926	24.1%	49	28	76.6%	0	0	--
Pacific Contiguous	W	W	W	362	357	1.3%	0	0	--
California	0	0	--	197	179	10.2%	0	0	--
Oregon	W	W	W	73	76	-4.4%	0	0	--
Washington	W	W	W	92	102	-10.0%	0	0	--
Pacific Noncontiguous	W	W	W	1,006	1,211	-16.9%	0	0	--
Alaska	0	W	W	90	258	-65.1%	0	0	--
Hawaii	W	W	W	916	953	-3.9%	0	0	--
U.S. Total	129,688	110,278	17.6%	25,245	25,208	0.1%	NM	380	NM

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 for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, August 2020 and 2019

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019
Coal (Thousand Tons)							
New England	W	467	W	W	W	W	W
Middle Atlantic	3,436	4,349	-21.0%	W	0	W	4,349
East North Central	30,524	23,901	27.7%	19,259	15,400	11,265	8,501
West North Central	24,986	17,757	40.7%	24,986	17,757	0	0
South Atlantic	18,985	20,112	-5.6%	17,040	17,430	1,945	2,682
East South Central	10,326	10,596	-2.5%	10,326	10,596	0	0
West South Central	21,013	14,891	41.1%	14,325	11,377	6,688	3,514
Mountain	18,285	16,629	10.0%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	W	W	W
U.S. Total	**129,688**	**110,278**	**17.6%**	**104,205**	**89,054**	**25,483**	**21,224**
Petroleum Liquids (Thousand Barrels)							
New England	2,978	3,400	-12.4%	520	503	2,458	2,898
Middle Atlantic	5,165	5,025	2.8%	2,002	1,845	3,163	3,179
East North Central	1,656	1,071	54.7%	678	668	978	403
West North Central	806	839	-4.0%	781	810	25	30
South Atlantic	10,447	10,494	-0.5%	8,296	8,387	2,151	2,107
East South Central	1,190	1,187	0.3%	1,098	1,096	92	91
West South Central	1,265	1,239	2.1%	1,071	1,012	194	227
Mountain	371	385	-3.6%	344	355	28	30
Pacific Contiguous	362	357	1.3%	262	276	99	81
Pacific Noncontiguous	1,006	1,211	-16.9%	970	1,177	36	34
U.S. Total	**25,245**	**25,208**	**0.1%**	**16,021**	**16,128**	**9,223**	**9,080**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	92	W	W	92	0	0
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	W	W	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	**NM**	**380**	**NM**	**NM**	**372**	**NM**	**8**

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form-923, 'Power Plant Operations Report.'

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2010 - August 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	54,844	69,932	3,124	128,180
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	39,895	56,368	2,883	99,147
February	41,236	54,665	2,738	98,639
March	44,239	49,467	3,054	96,933
April	48,925	55,808	3,344	108,089
May	51,973	60,325	3,023	115,712
June	53,694	60,293	2,551	116,876
July	50,058	57,591	2,670	110,672
August	49,612	57,932	2,409	110,278
Sept	48,837	59,055	2,395	110,626
October	51,574	64,043	2,590	118,574
November	52,623	66,443	2,959	122,364
December	54,844	69,932	3,124	128,180
Year 2020, End of Month Stocks				
January	56,274	74,515	3,307	134,364
February	57,232	78,589	3,235	139,299
March	59,841	81,506	3,624	145,238
April	61,835	85,663	3,947	151,744
May	61,500	88,072	4,117	154,058
June	59,364	86,587	4,140	150,427
July	53,713	79,606	4,264	137,907
August	50,755	74,335	4,338	129,688

Notes: See Glossary for definitions.
Values for 2019 and prior years are final. Values for 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 - August 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	10,745,991	560,153	2.02	38.70	1.31	101.8	88,662	14,711	13.62	82.12	0.49	64.0
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	1,010,158	52,809	2.10	40.15	1.32	92.4	8,961	1,486	12.46	75.19	0.46	51.0
February	853,344	44,826	2.07	39.38	1.27	97.1	9,019	1,483	13.25	80.59	0.48	88.4
March	827,252	42,436	2.08	40.49	1.50	94.1	7,697	1,277	14.44	87.07	0.47	78.1
April	874,686	45,147	2.07	40.03	1.37	131.4	7,083	1,175	14.87	89.62	0.52	75.3
May	896,817	46,301	2.05	39.76	1.38	113.1	6,759	1,125	14.51	87.20	0.50	58.3
June	873,807	45,367	2.03	39.03	1.35	100.4	6,883	1,145	13.70	82.32	0.49	61.5
July	945,182	49,535	2.02	38.54	1.28	87.2	5,943	993	13.80	82.63	0.48	51.5
August	986,319	51,507	2.00	38.30	1.26	96.6	5,217	878	14.25	84.70	0.51	44.1
Sept	895,606	46,816	1.96	37.47	1.27	97.3	8,345	1,376	12.64	76.68	0.48	76.2
October	875,036	45,699	1.96	37.48	1.27	119.0	6,806	1,129	13.72	82.68	0.50	61.1
November	851,748	44,843	1.96	37.27	1.26	104.5	7,994	1,316	13.02	79.10	0.49	70.2
December	856,036	44,867	1.91	36.50	1.25	108.0	7,954	1,328	13.64	81.73	0.49	67.3
Year 2020												
January	814,248	42,959	1.94	36.79	1.25	113.6	5,342	895	13.86	82.71	0.53	46.8
February	692,114	36,715	1.91	35.97	1.27	111.1	6,581	1,090	13.05	78.77	0.49	69.7
March	659,206	34,712	1.94	36.77	1.33	116.1	6,712	1,111	10.48	63.31	0.51	75.0
April	562,898	30,023	1.93	36.17	1.25	122.9	4,231	715	8.48	50.24	0.52	55.6
May	536,562	28,899	1.90	35.22	1.15	104.5	6,466	1,090	6.52	38.69	0.50	77.4
June	621,590	32,837	1.91	36.14	1.29	87.8	6,761	1,123	7.24	43.60	0.48	66.4
July	710,166	37,392	1.91	36.34	1.30	73.7	7,035	1,166	8.50	51.29	0.48	62.1
August	775,036	40,533	1.90	36.34	1.29	79.0	5,001	833	9.96	59.83	0.49	45.9
Year to Date												
2018	7,453,943	390,191	2.05	39.23	1.31	89.5	96,386	16,016	14.12	85.06	0.41	69.1
2019	7,267,565	377,928	2.05	39.44	1.34	99.7	57,563	9,562	13.84	83.30	0.49	61.7
2020	5,371,821	284,071	1.92	36.26	1.27	97.2	48,130	8,023	9.70	58.22	0.50	61.6
Rolling 12 Months Ending in August												
2019	11,184,739	583,952	2.06	39.38	1.33	98.5	95,245	15,835	14.36	86.38	0.47	67.3
2020	8,850,247	466,296	1.93	36.62	1.27	100.7	79,230	13,172	11.09	66.69	0.49	64.1

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

Notes:
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 2019 and prior years are final. Values for 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 - August 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	55.3	12,093,432	11,693,486	2.89	2.98	91.4	2.50
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	48.1	919,838	889,946	4.00	4.13	90.7	3.01
February	4,486	155	2.27	65.75	5.78	45.9	837,542	807,831	3.63	3.76	89.9	2.86
March	3,725	130	2.43	69.63	6.15	42.2	872,265	844,350	3.46	3.57	90.1	2.81
April	3,159	111	2.71	76.93	5.65	49.1	799,961	774,560	2.89	2.98	90.7	2.50
May	4,631	162	2.24	63.78	5.41	44.6	911,282	883,322	2.77	2.85	92.3	2.44
June	3,740	130	2.18	62.61	5.15	45.4	1,058,212	1,024,899	2.58	2.67	92.1	2.36
July	5,766	201	2.01	57.67	5.22	52.2	1,325,515	1,281,068	2.54	2.63	92.4	2.34
August	7,308	258	1.72	48.66	5.20	74.8	1,348,880	1,302,573	2.42	2.50	92.4	2.26
Sept	3,777	131	1.67	48.38	5.58	42.2	1,148,917	1,110,680	2.59	2.68	92.1	2.34
October	2,365	83	1.57	44.65	5.64	56.6	1,001,048	967,750	2.49	2.58	91.2	2.27
November	6,654	232	1.46	41.78	5.38	125.2	886,624	856,721	2.96	3.06	90.5	2.50
December	5,236	183	1.14	32.50	5.44	68.2	983,347	949,785	2.91	3.01	90.9	2.47
Year 2020												
January	8,421	295	1.53	43.68	5.34	87.9	932,454	900,881	2.63	2.72	84.3	2.33
February	6,913	244	1.47	41.75	4.99	102.2	887,425	858,020	2.40	2.48	85.5	2.22
March	4,942	174	1.36	38.61	5.46	57.7	875,682	846,389	2.14	2.22	84.2	2.09
April	5,150	180	1.38	39.50	5.35	71.4	773,366	745,767	2.10	2.18	84.7	2.04
May	5,495	195	1.61	45.35	5.30	67.1	835,738	810,278	2.16	2.23	85.2	2.07
June	5,648	199	1.46	41.45	6.01	52.5	1,015,594	986,100	2.01	2.07	84.6	1.99
July	5,610	201	1.62	45.31	5.57	47.3	1,276,802	1,239,312	2.03	2.09	82.6	2.01
August	7,159	253	1.82	51.46	5.68	65.9	1,219,171	1,182,235	2.39	2.47	83.9	2.21
Year to Date												
2018	57,658	2,041	2.58	72.97	5.71	65.8	7,559,766	7,320,017	3.43	3.54	90.3	2.79
2019	38,263	1,340	2.14	61.06	5.53	50.5	8,073,496	7,808,550	2.96	3.07	91.5	2.56
2020	49,338	1,740	1.54	43.72	5.45	66.8	7,816,232	7,568,983	2.23	2.30	84.3	2.12
Rolling 12 Months Ending in August												
2019	65,726	2,309	2.26	64.49	5.63	56.3	11,757,888	11,374,297	3.22	3.33	91.2	2.68
2020	67,369	2,370	1.51	42.95	5.46	67.4	11,836,169	11,453,919	2.40	2.48	86.5	2.22

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 2019 and prior years are final. Values for 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 - August 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	7,970,069	413,915	2.08	39.99	1.18	103.1	66,789	11,010	13.40	81.29	0.46	69.9
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	738,951	38,447	2.16	41.50	1.17	92.6	6,257	1,035	12.58	76.07	0.42	61.2
February	631,870	33,072	2.14	40.80	1.15	98.6	6,768	1,106	13.06	79.89	0.46	99.9
March	588,088	30,001	2.14	41.91	1.36	94.2	6,258	1,034	14.36	86.91	0.42	88.8
April	646,989	33,355	2.13	41.31	1.20	135.4	5,460	901	14.73	89.26	0.47	85.9
May	664,887	34,246	2.12	41.12	1.21	112.6	5,038	832	14.15	85.71	0.48	63.5
June	651,381	33,621	2.10	40.75	1.19	99.7	5,247	869	13.31	80.39	0.47	63.3
July	723,359	37,713	2.08	39.90	1.15	88.8	4,455	740	13.30	80.10	0.46	55.6
August	746,495	38,909	2.06	39.56	1.14	97.4	3,921	656	13.65	81.53	0.48	44.4
Sept	676,927	35,149	2.01	38.79	1.17	98.7	6,831	1,119	12.41	75.70	0.45	85.5
October	643,227	33,488	2.01	38.57	1.13	122.6	4,958	815	13.28	80.79	0.47	62.2
November	624,023	32,728	2.01	38.36	1.14	106.9	6,206	1,013	12.83	78.61	0.48	82.2
December	633,871	33,185	1.95	37.30	1.12	110.8	5,390	891	13.65	82.59	0.47	63.9
Year 2020												
January	599,610	31,535	1.98	37.56	1.12	114.9	4,454	744	13.67	81.86	0.48	50.0
February	511,376	27,027	1.94	36.77	1.12	113.6	5,670	937	12.86	77.84	0.46	78.7
March	490,415	25,766	1.97	37.43	1.14	118.3	5,169	851	10.37	62.98	0.47	83.9
April	431,348	22,478	1.97	37.89	1.18	131.5	2,574	432	8.46	50.40	0.47	46.6
May	400,318	21,157	1.93	36.48	1.08	106.2	4,012	671	6.68	39.96	0.48	66.3
June	464,257	24,345	1.96	37.30	1.13	87.4	4,152	685	6.62	40.13	0.47	55.4
July	546,562	28,603	1.96	37.36	1.15	74.4	5,546	911	8.25	50.24	0.47	67.7
August	598,478	31,014	1.94	37.45	1.16	79.4	3,727	617	10.06	60.79	0.47	46.7
Year to Date												
2018	5,507,138	287,022	2.10	40.28	1.18	89.7	59,841	9,895	14.07	85.14	0.36	75.2
2019	5,392,019	279,365	2.11	40.82	1.19	100.5	43,405	7,173	13.62	82.44	0.46	68.3
2020	4,042,365	211,926	1.96	37.30	1.14	98.4	35,305	5,848	9.82	59.29	0.47	61.3
Rolling 12 Months Ending in August												
2019	8,235,916	428,307	2.12	40.70	1.19	98.7	67,614	11,174	14.18	85.81	0.44	70.8
2020	6,620,415	346,476	1.97	37.67	1.14	102.2	58,689	9,685	11.08	67.16	0.47	65.5

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 2019 and prior years are final. Values for 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 - August 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	6,026,974	5,831,134	3.03	3.13	97.0	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	446,581	432,740	4.13	4.26	97.1	2.94
February	4,486	155	2.27	65.75	5.78	69.4	414,367	398,782	3.76	3.90	96.0	2.84
March	3,725	130	2.43	69.63	6.15	66.9	432,758	419,315	3.63	3.74	96.4	2.84
April	3,159	111	2.71	76.93	5.65	101.5	401,329	388,531	3.05	3.15	96.7	2.55
May	4,631	162	2.24	63.78	5.41	73.8	471,417	457,391	2.92	3.01	99.1	2.50
June	3,740	130	2.18	62.61	5.15	85.7	546,353	529,347	2.73	2.82	97.6	2.43
July	5,723	199	2.01	57.76	5.22	86.8	662,600	640,466	2.63	2.72	96.9	2.38
August	6,693	235	1.72	48.82	5.15	115.7	680,091	657,152	2.52	2.61	96.6	2.31
Sept	3,034	105	1.68	48.71	5.58	56.6	577,988	559,208	2.75	2.84	97.0	2.40
October	1,738	60	1.51	43.76	5.45	92.3	496,610	480,428	2.69	2.78	96.7	2.35
November	6,654	232	1.46	41.78	5.38	227.7	427,761	413,977	3.13	3.24	97.1	2.52
December	5,236	183	1.14	32.50	5.44	132.2	469,120	453,798	3.12	3.22	96.9	2.50
Year 2020												
January	8,421	295	1.53	43.68	5.34	144.1	447,079	432,583	2.87	2.97	87.8	2.40
February	6,913	244	1.47	41.75	4.99	164.5	436,842	422,809	2.66	2.74	90.0	2.33
March	4,942	174	1.36	38.61	5.46	82.4	439,954	425,351	2.36	2.44	89.2	2.19
April	5,150	180	1.38	39.50	5.35	98.8	388,884	374,588	2.34	2.43	89.5	2.16
May	5,495	195	1.61	45.35	5.30	104.2	425,971	413,175	2.43	2.51	89.9	2.20
June	5,648	199	1.46	41.45	6.01	77.0	504,697	490,859	2.26	2.32	87.6	2.13
July	5,104	183	1.62	45.13	5.52	61.2	623,212	605,840	2.20	2.27	84.2	2.11
August	6,485	228	1.83	52.01	5.67	91.5	595,172	577,443	2.57	2.65	86.2	2.28
Year to Date												
2018	57,238	2,025	2.59	73.17	5.71	106.8	3,776,240	3,657,982	3.57	3.68	96.0	2.77
2019	37,605	1,315	2.14	61.32	5.52	82.6	4,055,496	3,923,724	3.09	3.19	97.0	2.58
2020	48,158	1,697	1.54	43.65	5.44	97.6	3,861,811	3,742,648	2.45	2.53	87.7	2.23
Rolling 12 Months Ending in August												
2019	63,578	2,230	2.28	65.09	5.63	91.1	5,832,815	5,645,200	3.34	3.45	96.9	2.68
2020	64,819	2,277	1.50	42.79	5.44	102.1	5,833,289	5,650,059	2.61	2.69	90.6	2.30

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 2019 and prior years are final. Values for 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 - August 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	2,629,405	139,141	1.81	34.16	1.74	101.6	20,188	3,425	14.40	84.89	0.50	73.0
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	258,502	13,732	1.91	35.91	1.75	94.9	2,550	426	12.15	72.73	0.50	53.5
February	208,595	11,136	1.83	34.30	1.66	96.1	2,052	344	13.83	82.61	0.46	98.6
March	225,693	11,804	1.88	35.97	1.87	96.4	1,312	223	14.97	88.25	0.54	79.1
April	215,930	11,232	1.84	35.44	1.89	127.7	1,400	238	15.72	92.48	0.51	72.3
May	219,210	11,432	1.83	35.06	1.91	118.6	1,628	278	15.67	91.68	0.49	76.9
June	210,718	11,178	1.76	33.24	1.84	105.7	1,505	255	15.10	89.08	0.48	74.1
July	210,437	11,271	1.79	33.38	1.69	83.9	1,409	240	15.49	90.87	0.48	53.7
August	228,948	12,067	1.78	33.72	1.69	96.5	1,184	203	16.40	95.62	0.49	57.7
Sept	207,547	11,127	1.75	32.61	1.59	95.7	1,361	232	13.79	81.01	0.56	72.0
October	219,896	11,624	1.77	33.58	1.69	114.0	1,713	292	15.05	88.23	0.52	80.0
November	214,440	11,469	1.77	33.22	1.61	101.1	1,652	281	13.67	80.52	0.49	78.7
December	209,490	11,070	1.75	33.07	1.66	104.6	2,423	414	13.65	79.88	0.50	107.5
Year 2020												
January	201,983	10,808	1.80	33.69	1.63	115.6	727	125	15.12	88.13	0.56	50.6
February	169,439	9,130	1.77	32.84	1.74	110.4	722	123	14.71	86.54	0.57	55.8
March	155,769	8,326	1.78	33.38	1.92	115.8	1,351	229	10.89	64.15	0.52	71.4
April	121,895	7,075	1.72	29.67	1.47	108.4	1,542	264	8.35	48.79	0.53	111.6
May	126,481	7,262	1.76	30.61	1.37	104.5	2,325	398	6.16	36.02	0.50	165.7
June	147,445	8,001	1.73	31.85	1.80	90.8	2,513	422	8.21	48.86	0.48	140.7
July	153,536	8,300	1.73	31.98	1.84	72.4	1,364	234	9.42	54.82	0.48	64.6
August	167,020	9,060	1.72	31.80	1.74	79.1	1,136	194	9.65	56.59	0.50	59.5
Year to Date												
2018	1,829,699	97,540	1.88	35.39	1.71	90.9	35,035	5,879	14.25	85.07	0.45	73.7
2019	1,778,032	93,851	1.83	34.66	1.79	100.7	13,040	2,207	14.61	86.34	0.49	67.7
2020	1,243,568	67,962	1.75	32.12	1.70	97.1	11,681	1,989	9.25	54.33	0.51	88.3
Rolling 12 Months Ending in August												
2019	2,797,395	148,326	1.85	34.95	1.75	100.7	25,705	4,350	14.90	87.99	0.46	85.3
2020	2,094,941	113,253	1.76	32.52	1.67	99.5	18,829	3,207	11.06	64.91	0.51	87.1

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

Notes:
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 2019 and prior years are final. Values for 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 - August 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	5,242,547	5,062,877	2.70	2.80	96.0	2.40
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	398,896	385,014	3.88	4.02	95.6	3.05
February	0	0	--	--	--	0.0	357,555	345,530	3.49	3.61	95.0	2.85
March	0	0	--	--	--	0.0	371,920	359,394	3.30	3.41	95.0	2.73
April	0	0	--	--	--	0.0	333,598	322,802	2.65	2.74	95.5	2.33
May	0	0	--	--	--	0.0	372,853	360,800	2.53	2.61	96.4	2.28
June	0	0	--	--	--	0.0	446,512	432,051	2.35	2.43	96.4	2.17
July	0	0	--	--	--	0.0	592,358	572,083	2.43	2.51	96.4	2.26
August	0	0	--	--	--	0.0	597,443	576,291	2.27	2.35	96.5	2.13
Sept	0	0	--	--	--	0.0	504,061	486,741	2.38	2.47	96.5	2.19
October	0	0	--	--	--	0.0	438,101	422,965	2.22	2.30	96.1	2.09
November	0	0	--	--	--	0.0	388,489	374,471	2.77	2.88	95.5	2.41
December	0	0	--	--	--	0.0	440,761	424,737	2.69	2.79	95.8	2.39
Year 2020												
January	0	0	--	--	--	0.0	412,765	397,879	2.36	2.45	90.7	2.17
February	0	0	--	--	--	0.0	384,666	371,234	2.09	2.17	90.8	1.99
March	0	0	--	--	--	0.0	369,172	356,338	1.86	1.93	88.6	1.86
April	0	0	--	--	--	0.0	321,897	310,434	1.79	1.86	89.9	1.79
May	0	0	--	--	--	0.0	344,883	334,015	1.80	1.86	89.3	1.81
June	0	0	--	--	--	0.0	445,814	431,957	1.70	1.75	89.1	1.74
July	0	0	--	--	--	0.0	586,374	568,014	1.83	1.89	87.0	1.82
August	0	0	--	--	--	0.0	557,121	539,745	2.16	2.23	88.4	2.05
Year to Date												
2018	0	0	--	--	--	0.0	3,258,156	3,151,770	3.29	3.40	94.5	2.79
2019	0	0	--	--	--	0.0	3,471,135	3,353,964	2.80	2.90	95.9	2.46
2020	0	0	--	--	--	0.0	3,422,690	3,309,617	1.96	2.03	89.0	1.92
Rolling 12 Months Ending in August												
2019	0	0	--	--	--	0.0	5,102,191	4,929,886	3.05	3.16	95.6	2.61
2020	0	0	--	--	--	0.0	5,194,102	5,018,530	2.14	2.22	91.3	2.04

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 2019 and prior years are final. Values for 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 - August 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	2.0	0	0	--	--	--	0.0
February	37	2	2.90	65.51	2.95	3.0	0	0	--	--	--	0.0
March	48	2	2.90	65.86	2.94	3.6	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	0.2	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	1.9	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
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
Year to Date												
2018	130	6	2.92	66.44	3.13	1.4	0	0	--	--	--	0.0
2019	119	5	2.90	65.77	2.96	1.5	0	0	--	--	--	0.0
2020	84	4	2.96	67.52	2.95	1.2	0	0	--	--	--	0.0
Rolling 12 Months Ending in August												
2019	278	12	2.93	66.24	2.96	2.3	0	0	--	--	--	0.0
2020	159	7	2.96	67.66	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 2019 and prior years are final. Values for 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 - August 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	6.7	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	6.3	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	7.3	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	7.9	3.26
June	0	0	--	--	--	0.0	807	776	3.23	3.36	7.2	3.22
July	0	0	--	--	--	0.0	721	701	3.17	3.26	5.4	3.17
August	0	0	--	--	--	0.0	838	808	3.13	3.25	6.5	3.13
Sept	0	0	--	--	--	0.0	747	717	3.15	3.28	6.4	3.15
October	0	0	--	--	--	0.0	766	734	3.24	3.38	7.0	3.23
November	0	0	--	--	--	0.0	743	713	3.30	3.43	6.6	3.28
December	0	0	--	--	--	0.0	832	801	3.26	3.39	6.6	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	6.8	3.09
May	0	0	--	--	--	0.0	657	631	3.09	3.22	6.5	3.09
June	0	0	--	--	--	0.0	626	599	3.09	3.23	5.8	3.09
July	0	0	--	--	--	0.0	624	599	3.11	3.24	5.1	3.11
August	0	0	--	--	--	0.0	775	739	3.03	3.17	6.4	3.03
Year to Date												
2018	0	0	--	--	--	0.0	6,076	5,898	3.53	3.64	6.5	3.52
2019	0	0	--	--	--	0.0	6,341	6,121	3.28	3.39	6.8	3.27
2020	0	0	--	--	--	0.0	5,580	5,354	3.09	3.22	6.2	3.09
Rolling 12 Months Ending in August												
2019	0	0	--	--	--	0.0	9,355	9,047	3.31	3.43	6.7	3.30
2020	0	0	--	--	--	0.0	8,668	8,319	3.14	3.27	6.3	3.14

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 2019 and prior years are final. Values for 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 - August 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	146,324	7,088	2.55	52.69	1.19	65.1	1,684	275	13.19	80.82	1.47	14.5
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	56.2	154	25	12.98	80.23	1.24	7.5
February	12,842	617	2.61	54.43	1.16	61.4	199	33	13.77	82.99	1.45	18.7
March	13,424	629	2.68	57.20	1.49	67.5	126	21	13.43	82.27	1.63	14.2
April	11,765	561	2.64	55.30	1.25	62.8	223	36	12.89	79.74	1.54	24.0
May	12,720	623	2.51	51.21	0.97	71.3	92	15	14.12	86.68	1.48	12.6
June	11,705	567	2.49	51.38	1.22	67.2	131	21	13.04	79.96	1.55	18.3
July	11,385	551	2.45	50.57	1.32	65.1	80	13	11.99	74.33	1.41	12.7
August	10,876	530	2.39	49.14	1.23	62.0	112	18	12.56	77.49	1.66	15.4
Sept	11,131	539	2.48	51.28	1.24	66.3	154	25	13.15	80.17	1.58	20.8
October	11,889	586	2.59	52.47	1.21	68.4	136	22	13.01	79.34	1.42	17.2
November	13,255	645	2.59	53.19	1.05	71.3	137	22	13.67	83.44	1.46	9.7
December	12,654	612	2.67	55.16	1.07	64.4	141	23	13.33	81.47	1.25	15.8
Year 2020												
January	12,628	614	2.51	51.68	1.13	62.4	162	27	13.38	81.13	1.71	20.9
February	11,241	555	2.42	48.89	1.12	59.1	188	31	12.36	76.04	0.93	24.6
March	13,022	621	2.61	54.85	1.27	70.0	192	31	10.77	66.35	1.35	28.5
April	9,654	471	2.49	51.04	1.21	60.9	115	19	10.75	65.79	1.36	19.2
May	9,763	480	2.43	49.55	1.15	64.0	129	21	7.84	48.89	0.84	18.4
June	9,888	491	2.39	48.11	1.21	70.2	95	16	8.89	53.81	1.06	13.6
July	10,067	488	2.44	50.24	1.19	64.2	125	20	9.45	57.95	1.22	17.7
August	9,539	460	2.43	50.36	1.21	62.5	138	22	9.83	61.55	0.75	19.9
Year to Date												
2018	116,976	5,624	2.48	51.62	1.29	67.8	1,510	242	13.11	81.74	1.32	15.3
2019	97,395	4,706	2.54	52.49	1.22	63.9	1,117	182	13.14	80.68	1.50	14.4
2020	85,803	4,179	2.47	50.73	1.19	64.0	1,144	186	10.65	65.52	1.14	20.4
Rolling 12 Months Ending in August												
2019	151,149	7,306	2.51	51.90	1.26	64.6	1,926	311	13.55	83.77	1.46	15.4
2020	134,733	6,561	2.51	51.59	1.17	65.3	1,712	279	11.53	70.70	1.25	18.1

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

Notes:
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 2019 and prior years are final. Values for 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 - August 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	8.1	814,483	790,388	2.82	2.91	57.5	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	73,583	71,442	3.76	3.87	59.0	3.59
February	0	0	--	--	--	0.0	64,847	62,775	3.44	3.56	58.1	3.33
March	0	0	--	--	--	0.0	66,748	64,830	3.13	3.22	57.6	3.07
April	0	0	--	--	--	0.0	64,259	62,480	2.85	2.93	59.7	2.85
May	0	0	--	--	--	0.0	66,202	64,348	2.75	2.83	57.8	2.73
June	0	0	--	--	--	0.0	64,540	62,725	2.63	2.70	56.5	2.62
July	43	2	1.71	46.96	5.81	1.7	69,836	67,819	2.49	2.56	57.3	2.49
August	615	23	1.75	46.99	5.75	30.2	70,509	68,322	2.37	2.45	57.1	2.39
Sept	743	26	1.63	47.00	5.56	30.6	66,121	64,014	2.56	2.65	56.0	2.57
October	627	23	1.72	47.00	6.17	30.1	65,572	63,624	2.46	2.54	55.7	2.49
November	0	0	--	--	--	0.0	69,632	67,560	2.77	2.86	57.8	2.76
December	0	0	--	--	--	0.0	72,635	70,448	2.62	2.70	57.8	2.64
Year 2020												
January	0	0	--	--	--	0.0	71,816	69,655	2.36	2.44	55.7	2.41
February	0	0	--	--	--	0.0	65,225	63,315	2.12	2.19	55.7	2.19
March	0	0	--	--	--	0.0	65,805	63,979	2.00	2.05	55.5	2.12
April	0	0	--	--	--	0.0	61,924	60,107	1.87	1.92	56.2	1.96
May	0	0	--	--	--	0.0	64,228	62,457	1.97	2.02	57.8	2.04
June	0	0	--	--	--	0.0	64,457	62,685	1.83	1.88	56.9	1.91
July	506	19	1.72	47.01	6.06	24.1	66,592	64,859	1.84	1.89	55.8	1.93
August	674	25	1.72	46.47	5.81	30.2	66,103	64,308	2.30	2.36	55.2	2.32
Year to Date												
2018	420	16	1.75	46.28	5.66	2.4	519,294	504,367	3.14	3.23	58.2	3.04
2019	658	24	1.75	46.99	5.75	4.0	540,524	524,741	2.93	3.02	57.9	2.89
2020	1,180	43	1.72	46.70	5.92	8.8	526,150	511,365	2.04	2.10	56.1	2.12
Rolling 12 Months Ending in August												
2019	2,148	79	1.75	47.56	5.76	8.5	813,527	790,163	3.25	3.35	58.3	3.15
2020	2,550	92	1.69	46.86	5.88	11.7	800,110	777,011	2.23	2.30	56.3	2.29

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	5	4	44.0%	0	0	5	4	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	5	4	44.0%	0	0	5	4	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,193	1,574	-24.0%	0	0	1,182	1,574	0	0	11	0
New Jersey	16	55	-71.0%	0	0	16	55	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	1,177	1,519	-23.0%	0	0	1,166	1,519	0	0	11	0
East North Central	8,697	10,863	-20.0%	5,477	6,564	3,069	4,136	0	0	151	163
Illinois	2,175	3,231	-33.0%	288	838	1,735	2,243	0	0	151	150
Indiana	2,016	2,326	-13.0%	1,814	2,149	203	176	0	0	0	0
Michigan	1,785	2,042	-13.0%	1,772	2,011	13	31	0	0	0	0
Ohio	1,335	1,875	-29.0%	216	189	1,119	1,685	0	0	0	0
Wisconsin	1,387	1,390	-0.2%	1,387	1,377	0	0	0	0	0	13
West North Central	8,453	9,988	-15.0%	8,286	9,732	0	0	0	0	167	256
Iowa	1,040	1,516	-31.0%	921	1,314	0	0	0	0	119	202
Kansas	1,200	924	30.0%	1,200	924	0	0	0	0	0	0
Minnesota	783	1,142	-31.0%	783	1,142	0	0	0	0	0	0
Missouri	2,402	2,877	-16.0%	2,402	2,877	0	0	0	0	0	0
Nebraska	965	1,285	-25.0%	918	1,231	0	0	0	0	48	54
North Dakota	1,935	2,117	-8.6%	1,935	2,117	0	0	0	0	0	0
South Dakota	128	126	1.2%	128	126	0	0	0	0	0	0
South Atlantic	4,875	6,949	-30.0%	4,291	6,167	538	740	0	0	45	42
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	498	775	-36.0%	498	775	0	0	0	0	0	0
Georgia	616	1,537	-60.0%	605	1,537	0	0	0	0	11	0
Maryland	126	195	-35.0%	0	0	126	195	0	0	0	0
North Carolina	874	1,198	-27.0%	854	1,179	2	2	0	0	18	18
South Carolina	289	675	-57.0%	270	656	20	18	0	0	0	0
Virginia	194	259	-25.0%	177	214	0	21	0	0	17	24
West Virginia	2,279	2,310	-1.3%	1,888	1,805	391	505	0	0	0	0
East South Central	4,385	5,498	-20.0%	4,059	5,125	290	307	0	0	37	65
Alabama	1,138	1,562	-27.0%	1,138	1,562	0	0	0	0	0	0
Kentucky	2,258	2,784	-19.0%	2,258	2,784	0	0	0	0	0	0
Mississippi	462	426	8.3%	172	120	290	307	0	0	0	0
Tennessee	528	725	-27.0%	491	660	0	0	0	0	37	65
West South Central	6,501	8,574	-24.0%	3,529	4,656	2,969	3,915	0	0	3	4
Arkansas	845	1,572	-46.0%	710	1,338	132	229	0	0	3	4
Louisiana	267	626	-57.0%	137	513	130	114	0	0	0	0
Oklahoma	618	507	22.0%	618	507	0	0	0	0	0	0
Texas	4,771	5,869	-19.0%	2,064	2,298	2,708	3,571	0	0	0	0
Mountain	6,063	7,518	-19.0%	5,354	6,481	709	1,037	0	0	0	0
Arizona	822	1,369	-40.0%	822	1,369	0	0	0	0	0	0
Colorado	919	1,197	-23.0%	919	1,197	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	564	927	-39.0%	13	25	551	902	0	0	0	0
Nevada	100	157	-36.0%	24	95	75	62	0	0	0	0
New Mexico	756	838	-9.7%	756	838	0	0	0	0	0	0
Utah	1,081	1,064	1.7%	1,043	1,035	38	29	0	0	0	0
Wyoming	1,821	1,967	-7.4%	1,777	1,923	44	45	0	0	0	0
Pacific Contiguous	281	448	-37.0%	0	154	237	294	0	0	44	0
California	44	0	--	0	0	0	0	0	0	44	0
Oregon	0	154	-100.0%	0	154	0	0	0	0	0	0
Washington	237	294	-19.0%	0	0	237	294	0	0	0	0
Pacific Noncontiguous	79	91	-13.0%	19	30	60	61	0	0	0	0
Alaska	19	30	-37.0%	19	30	0	0	0	0	0	0
Hawaii	60	61	-1.8%	0	0	60	61	0	0	0	0
U.S. Total	40,533	51,507	-21.0%	31,014	38,909	9,060	12,067	0	0	460	530

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 for 2019 are final. Values for 2020 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) August 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	110	91	20.0%	72	49	38	43	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	38	43	-12.0%	0	0	38	43	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	6,873	13,848	-50.0%	37	0	6,782	13,805	0	0	54	43
New Jersey	300	400	-25.0%	0	0	300	400	0	0	0	0
New York	0	69	-100.0%	0	0	0	69	0	0	0	0
Pennsylvania	6,573	13,379	-51.0%	37	0	6,482	13,336	0	0	54	43
East North Central	59,523	83,906	-29.0%	34,821	49,131	23,474	33,557	0	0	1,228	1,219
Illinois	15,942	24,349	-35.0%	2,664	4,957	12,063	18,215	0	0	1,214	1,177
Indiana	14,931	19,652	-24.0%	13,308	18,309	1,623	1,343	0	0	0	0
Michigan	8,906	14,353	-38.0%	8,762	14,227	143	125	0	0	0	1
Ohio	11,013	15,553	-29.0%	1,369	1,679	9,644	13,874	0	0	0	0
Wisconsin	8,730	10,000	-13.0%	8,716	9,960	0	0	0	0	13	40
West North Central	63,639	69,615	-8.6%	61,874	67,618	0	0	4	5	1,761	1,991
Iowa	9,233	10,431	-11.0%	7,920	8,941	0	0	0	0	1,313	1,490
Kansas	7,524	7,007	7.4%	7,524	7,007	0	0	0	0	0	0
Minnesota	4,415	8,266	-47.0%	4,415	8,266	0	0	0	0	0	0
Missouri	19,548	19,313	1.2%	19,545	19,307	0	0	4	5	0	0
Nebraska	8,222	8,958	-8.2%	7,775	8,456	0	0	0	0	448	501
North Dakota	14,068	14,536	-3.2%	14,068	14,536	0	0	0	0	0	0
South Dakota	629	1,104	-43.0%	629	1,104	0	0	0	0	0	0
South Atlantic	30,725	52,738	-42.0%	27,478	46,424	2,909	5,786	0	0	339	528
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	3,784	6,120	-38.0%	3,772	6,087	0	0	0	0	11	33
Georgia	3,896	10,453	-63.0%	3,838	10,371	0	0	0	0	58	83
Maryland	791	1,873	-58.0%	0	0	791	1,781	0	0	0	92
North Carolina	5,122	8,698	-41.0%	4,938	8,526	38	37	0	0	146	135
South Carolina	2,989	5,517	-46.0%	2,853	5,352	133	149	0	0	3	15
Virginia	964	2,042	-53.0%	844	1,609	0	263	0	0	120	170
West Virginia	13,179	17,965	-27.0%	11,232	14,479	1,947	3,485	0	0	0	0
East South Central	27,275	37,476	-27.0%	24,849	34,979	2,082	2,064	0	0	344	433
Alabama	7,280	9,515	-23.0%	7,280	9,515	0	0	0	0	0	0
Kentucky	14,543	20,504	-29.0%	14,543	20,504	0	0	0	0	0	0
Mississippi	2,689	2,992	-10.0%	607	929	2,082	2,064	0	0	0	0
Tennessee	2,763	4,464	-38.0%	2,419	4,031	0	0	0	0	344	433
West South Central	49,015	61,564	-20.0%	23,178	32,817	25,774	28,615	0	0	63	132
Arkansas	6,700	9,549	-30.0%	5,217	8,097	1,450	1,411	0	0	33	42
Louisiana	2,485	4,247	-41.0%	1,666	3,350	819	897	0	0	0	0
Oklahoma	2,422	3,527	-31.0%	2,392	3,437	0	0	0	0	30	90
Texas	37,407	44,240	-15.0%	13,903	17,933	23,505	26,307	0	0	0	0
Mountain	43,431	53,690	-19.0%	38,885	47,084	4,546	6,606	0	0	0	0
Arizona	5,421	9,803	-45.0%	5,421	9,803	0	0	0	0	0	0
Colorado	7,425	9,349	-21.0%	7,425	9,349	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3,739	5,765	-35.0%	142	187	3,597	5,579	0	0	0	0
Nevada	782	1,248	-37.0%	375	842	407	406	0	0	0	0
New Mexico	5,013	5,648	-11.0%	5,013	5,648	0	0	0	0	0	0
Utah	8,295	7,405	12.0%	8,098	7,132	196	273	0	0	0	0
Wyoming	12,758	14,471	-12.0%	12,412	14,123	346	348	0	0	0	0
Pacific Contiguous	2,794	4,358	-36.0%	525	1,043	1,878	2,954	0	0	391	361
California	391	361	8.4%	0	0	0	0	0	0	391	361
Oregon	525	1,043	-50.0%	525	1,043	0	0	0	0	0	0
Washington	1,878	2,954	-36.0%	0	0	1,878	2,954	0	0	0	0
Pacific Noncontiguous	686	642	7.0%	206	219	480	422	0	0	0	0
Alaska	206	219	-5.9%	206	219	0	0	0	0	0	0
Hawaii	480	422	14.0%	0	0	480	422	0	0	0	0
U.S. Total	284,071	377,928	-25.0%	211,926	279,365	67,962	93,851	4	5	4,179	4,706

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 for 2019 are final. Values for 2020 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, August 2020 and 2019
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	3	0	669.0%	0	0	3	0	0	0	0	0
Connecticut	0	0	NM	0	0	0	0	0	0	0	0
Maine	2	0	NM	0	0	2	0	0	0	0	0
Massachusetts	0	0	400.0%	0	0	0	0	0	0	0	0
New Hampshire	0	0	-100.0%	0	0	0	0	0	0	0	0
Rhode Island	0	0	-100.0%	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	20	18	9.4%	0	0	14	12	0	0	6	6
New Jersey	1	0	254.0%	0	0	1	0	0	0	0	0
New York	2	0	605.0%	0	0	2	0	0	0	0	0
Pennsylvania	18	18	-0.5%	0	0	12	11	0	0	6	6
East North Central	78	54	44.0%	47	42	23	11	0	0	8	0
Illinois	7	6	3.8%	1	0	6	6	0	0	0	0
Indiana	21	14	48.0%	21	14	0	0	0	0	0	0
Michigan	31	17	79.0%	24	17	0	0	0	0	7	0
Ohio	19	11	73.0%	1	6	17	5	0	0	1	0
Wisconsin	1	6	-90.0%	1	6	0	0	0	0	0	0
West North Central	37	45	-17.0%	37	45	0	0	0	0	0	0
Iowa	9	9	-6.6%	9	9	0	0	0	0	0	0
Kansas	12	14	-17.0%	12	14	0	0	0	0	0	0
Minnesota	1	7	-89.0%	1	6	0	0	0	0	0	0
Missouri	11	8	43.0%	11	8	0	0	0	0	0	0
Nebraska	0	0	-100.0%	0	0	0	0	0	0	0	0
North Dakota	5	4	43.0%	5	4	0	0	0	0	0	0
South Dakota	0	3	-100.0%	0	3	0	0	0	0	0	0
South Atlantic	83	153	-46.0%	58	129	18	13	0	0	7	11
Delaware	2	2	31.0%	0	0	2	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6	66	-91.0%	5	63	0	0	0	0	1	3
Georgia	12	17	-32.0%	11	13	0	0	0	0	1	4
Maryland	15	11	37.0%	0	0	15	11	0	0	0	0
North Carolina	20	14	44.0%	16	11	0	0	0	0	4	2
South Carolina	2	7	-73.0%	2	6	0	0	0	0	0	1
Virginia	11	1	654.0%	10	1	0	0	0	0	0	0
West Virginia	15	35	-58.0%	15	35	0	0	0	0	0	0
East South Central	13	22	-42.0%	11	21	0	0	0	0	1	1
Alabama	0	1	-32.0%	0	1	0	0	0	0	0	0
Kentucky	4	8	-47.0%	4	8	0	0	0	0	0	0
Mississippi	0	1	-86.0%	0	1	0	0	0	0	0	0
Tennessee	8	12	-34.0%	7	11	0	0	0	0	1	1
West South Central	15	9	75.0%	11	7	5	1	0	0	0	0
Arkansas	8	0	--	4	0	4	0	0	0	0	0
Louisiana	0	3	-100.0%	0	3	0	0	0	0	0	0
Oklahoma	0	2	-100.0%	0	2	0	0	0	0	0	0
Texas	7	4	76.0%	7	3	1	1	0	0	0	0
Mountain	15	27	-43.0%	15	23	1	4	0	0	0	0
Arizona	4	10	-57.0%	4	10	0	0	0	0	0	0
Colorado	1	0	--	1	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	2	-100.0%	0	0	0	2	0	0	0	0
Nevada	1	3	-67.0%	1	3	0	0	0	0	0	0
New Mexico	2	2	-1.7%	2	2	0	0	0	0	0	0
Utah	1	4	-63.0%	1	2	0	2	0	0	0	0
Wyoming	6	7	-7.7%	6	7	0	0	0	0	0	0
Pacific Contiguous	2	0	347.0%	0	0	2	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	2	0	347.0%	0	0	2	0	0	0	0	0
Pacific Noncontiguous	566	549	3.2%	437	388	129	161	0	0	0	0
Alaska	2	3	-22.0%	2	3	0	0	0	0	0	0
Hawaii	564	546	3.3%	435	385	129	161	0	0	0	0
U.S. Total	833	878	-5.1%	617	656	194	203	0	0	22	18

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 for 2019 are final. Values for 2020 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) August 2020 and 2019
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	366	217	68.0%	7	13	359	204	0	0	0	0
Connecticut	98	7	NM	0	0	98	7	0	0	0	0
Maine	152	128	18.0%	0	0	152	128	0	0	0	0
Massachusetts	102	56	82.0%	5	5	98	52	0	0	0	0
New Hampshire	14	8	60.0%	2	8	12	0	0	0	0	0
Rhode Island	0	17	-100.0%	0	0	0	17	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	255	786	-67.0%	15	355	195	385	0	0	45	47
New Jersey	68	30	128.0%	0	0	68	30	0	0	0	0
New York	27	458	-94.0%	15	355	12	103	0	0	0	0
Pennsylvania	161	298	-46.0%	0	0	116	251	0	0	45	47
East North Central	552	634	-13.0%	342	373	192	237	0	0	18	24
Illinois	40	68	-41.0%	3	2	37	66	0	0	0	0
Indiana	191	151	26.0%	191	151	0	0	0	0	0	0
Michigan	131	103	28.0%	120	94	0	0	0	0	12	9
Ohio	165	270	-39.0%	11	92	148	163	0	0	6	15
Wisconsin	25	42	-39.0%	18	34	7	8	0	0	0	0
West North Central	348	415	-16.0%	348	413	0	2	0	0	0	0
Iowa	72	80	-10.0%	72	80	0	0	0	0	0	0
Kansas	88	91	-3.9%	88	91	0	0	0	0	0	0
Minnesota	17	45	-62.0%	17	44	0	2	0	0	0	0
Missouri	98	125	-21.0%	98	125	0	0	0	0	0	0
Nebraska	1	15	-92.0%	1	15	0	0	0	0	0	0
North Dakota	67	49	36.0%	67	49	0	0	0	0	0	0
South Dakota	5	9	-42.0%	5	9	0	0	0	0	0	0
South Atlantic	891	1,136	-22.0%	623	919	154	110	0	0	114	107
Delaware	22	4	394.0%	0	0	22	4	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	152	335	-55.0%	131	311	0	0	0	0	21	24
Georgia	123	163	-25.0%	98	106	1	3	0	0	24	54
Maryland	119	86	39.0%	0	0	119	86	0	0	0	0
North Carolina	148	183	-19.0%	113	166	0	3	0	0	34	14
South Carolina	71	69	2.4%	56	61	0	2	0	0	15	6
Virginia	73	120	-39.0%	40	99	12	12	0	0	21	9
West Virginia	184	176	5.0%	184	176	0	0	0	0	0	0
East South Central	164	203	-19.0%	154	191	0	8	0	0	10	4
Alabama	6	21	-73.0%	6	13	0	8	0	0	0	0
Kentucky	87	92	-5.6%	87	92	0	0	0	0	0	0
Mississippi	8	18	-55.0%	8	18	0	0	0	0	0	0
Tennessee	63	71	-12.0%	53	67	0	0	0	0	10	4
West South Central	174	162	7.6%	133	123	41	39	0	0	0	0
Arkansas	54	42	29.0%	40	25	14	17	0	0	0	0
Louisiana	6	24	-74.0%	6	24	0	0	0	0	0	0
Oklahoma	47	23	101.0%	47	23	0	0	0	0	0	0
Texas	67	72	-7.4%	40	50	27	22	0	0	0	0
Mountain	246	266	-7.6%	234	245	12	20	0	0	0	0
Arizona	57	93	-38.0%	57	93	0	0	0	0	0	0
Colorado	2	2	-2.3%	2	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8	15	-47.0%	0	0	8	15	0	0	0	0
Nevada	10	19	-50.0%	8	16	1	3	0	0	0	0
New Mexico	33	31	5.5%	33	31	0	0	0	0	0	0
Utah	66	61	8.4%	64	59	2	2	0	0	0	0
Wyoming	69	44	58.0%	69	44	0	0	0	0	0	0
Pacific Contiguous	8	17	-50.0%	0	6	8	11	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	8	17	-50.0%	0	6	8	11	0	0	0	0
Pacific Noncontiguous	5,018	5,727	-12.0%	3,992	4,535	1,026	1,192	0	0	0	0
Alaska	18	16	10.0%	18	16	0	0	0	0	0	0
Hawaii	5,000	5,710	-12.0%	3,974	4,519	1,026	1,192	0	0	0	0
U.S. Total	8,023	9,562	-16.0%	5,848	7,173	1,989	2,207	0	0	186	182

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 for 2019 are final. Values for 2020 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, August 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 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	31	61	-49.0%	31	61	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	29	55	-46.0%	29	55	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	2	6	-75.0%	2	6	0	0	0	0	0	0
West North Central	25	23	8.9%	0	0	0	0	0	0	25	23
Iowa	25	23	8.9%	0	0	0	0	0	0	25	23
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	75	37	102.0%	75	37	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	75	37	102.0%	75	37	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	122	137	-11.0%	122	137	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	122	137	-11.0%	122	137	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	253	258	-2.1%	228	235	0	0	0	0	25	23

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 for 2019 are final. Values for 2020 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) August 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 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	281	237	19.0%	281	237	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	247	208	19.0%	247	208	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	34	29	17.0%	34	29	0	0	0	0	0	0
West North Central	43	24	78.0%	0	0	0	0	0	0	43	24
Iowa	43	24	78.0%	0	0	0	0	0	0	43	24
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	449	303	48.0%	449	303	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	449	303	48.0%	449	303	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	966	775	25.0%	966	775	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	966	775	25.0%	966	775	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	1,740	1,340	30.0%	1,697	1,315	0	0	0	0	43	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 for 2019 are final. Values for 2020 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, August 2020 and 2019
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	34,468	38,850	-11.0%	278	134	34,190	38,715	0	0	0	0
Connecticut	14,410	14,638	-1.6%	0	0	14,410	14,638	0	0	0	0
Maine	743	967	-23.0%	0	0	743	967	0	0	0	0
Massachusetts	11,750	12,303	-4.5%	257	134	11,493	12,169	0	0	0	0
New Hampshire	3,160	3,854	-18.0%	21	1	3,140	3,853	0	0	0	0
Rhode Island	4,405	7,088	-38.0%	0	0	4,405	7,088	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	158,903	144,463	10.0%	12,926	10,936	145,205	132,727	0	0	772	801
New Jersey	24,350	30,825	-21.0%	0	0	24,350	30,825	0	0	0	0
New York	45,983	42,960	7.0%	12,926	10,936	32,453	31,409	0	0	604	616
Pennsylvania	88,571	70,678	25.0%	0	0	88,403	70,493	0	0	168	185
East North Central	96,805	116,117	-17.0%	34,101	39,917	61,075	74,650	557	593	1,073	958
Illinois	10,866	19,890	-45.0%	1,505	1,559	9,359	18,331	0	0	3	0
Indiana	18,171	19,989	-9.1%	7,986	9,353	10,186	10,636	0	0	0	0
Michigan	24,262	27,877	-13.0%	8,217	11,444	15,000	15,461	557	593	488	379
Ohio	30,682	34,661	-11.0%	4,899	6,120	25,355	28,190	0	0	427	351
Wisconsin	12,824	13,700	-6.4%	11,494	11,441	1,175	2,031	0	0	156	228
West North Central	15,671	32,723	-52.0%	13,401	26,333	1,847	5,720	182	215	241	455
Iowa	4,500	8,235	-45.0%	4,259	7,781	0	0	0	0	241	455
Kansas	1,816	2,907	-38.0%	1,816	2,907	0	0	0	0	0	0
Minnesota	3,052	9,903	-69.0%	2,840	6,696	205	3,205	7	1	0	0
Missouri	5,603	7,222	-22.0%	3,786	4,493	1,642	2,515	175	214	0	0
Nebraska	357	1,991	-82.0%	357	1,991	0	0	0	0	0	0
North Dakota	343	1,770	-81.0%	343	1,770	0	0	0	0	0	0
South Dakota	0	695	-100.0%	0	695	0	0	0	0	0	0
South Atlantic	275,029	287,999	-4.5%	227,939	236,638	44,118	48,440	0	0	2,972	2,920
Delaware	4,235	4,268	-0.8%	0	0	4,235	4,268	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	132,661	131,910	0.6%	128,085	126,491	4,220	4,984	0	0	356	436
Georgia	36,551	45,076	-19.0%	27,955	34,218	7,870	10,197	0	0	726	660
Maryland	8,981	9,661	-7.0%	1,882	2,825	7,099	6,836	0	0	0	0
North Carolina	28,966	29,836	-2.9%	23,836	23,095	4,857	6,495	0	0	273	246
South Carolina	18,095	18,990	-4.7%	17,412	18,581	496	363	0	0	187	46
Virginia	42,770	45,309	-5.6%	28,642	31,009	13,284	13,380	0	0	843	920
West Virginia	2,771	2,949	-6.0%	126	419	2,057	1,917	0	0	588	612
East South Central	97,869	107,927	-9.3%	68,400	78,989	27,204	27,108	0	0	2,265	1,831
Alabama	39,255	43,510	-9.8%	12,757	16,627	26,498	26,884	0	0	0	0
Kentucky	9,375	10,400	-9.9%	8,684	10,182	692	218	0	0	0	0
Mississippi	38,450	39,909	-3.7%	38,436	39,903	14	6	0	0	0	0
Tennessee	10,789	14,108	-24.0%	8,523	12,277	0	0	0	0	2,265	1,831
West South Central	310,383	383,575	-19.0%	100,707	140,597	155,209	184,483	0	0	54,468	58,494
Arkansas	12,235	18,118	-32.0%	11,066	16,685	1,029	1,182	0	0	140	251
Louisiana	50,434	57,193	-12.0%	30,332	32,598	3,503	5,487	0	0	16,599	19,109
Oklahoma	34,664	45,090	-23.0%	22,289	30,573	11,827	13,981	0	0	548	536
Texas	213,051	263,174	-19.0%	37,020	60,742	138,850	163,834	0	0	37,181	38,598
Mountain	102,085	97,959	4.2%	88,150	82,587	13,891	15,325	0	0	44	46
Arizona	44,121	41,725	5.7%	35,381	32,522	8,740	9,203	0	0	0	0
Colorado	15,045	13,332	13.0%	12,742	11,284	2,303	2,048	0	0	0	0
Idaho	1,325	2,957	-55.0%	1,325	1,803	0	1,154	0	0	0	0
Montana	215	324	-34.0%	215	323	0	1	0	0	0	0
Nevada	22,158	21,781	1.7%	22,158	21,781	0	0	0	0	0	0
New Mexico	10,234	10,884	-6.0%	7,390	7,966	2,844	2,917	0	0	0	0
Utah	7,670	6,593	16.0%	7,626	6,546	0	0	0	0	44	46
Wyoming	1,318	363	263.0%	1,314	361	4	2	0	0	0	0
Pacific Contiguous	91,015	91,708	-0.8%	31,537	39,767	57,007	49,123	0	0	2,472	2,818
California	73,945	62,592	18.0%	23,336	22,121	48,137	37,652	0	0	2,472	2,818
Oregon	10,298	16,174	-36.0%	4,082	8,903	6,216	7,271	0	0	0	0
Washington	6,772	12,943	-48.0%	4,118	8,743	2,654	4,200	0	0	0	0
Pacific Noncontiguous	6	1,254	-100.0%	6	1,254	0	0	0	0	0	0
Alaska	6	1,254	-100.0%	6	1,254	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,182,235	1,302,573	-9.2%	577,443	657,152	539,745	576,291	739	808	64,308	68,322

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 for 2019 are final. Values for 2020 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) August 2020 and 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	213,723	229,789	-7.0%	1,013	531	212,709	229,258	0	0	0	0
Connecticut	102,397	94,404	8.5%	0	0	102,397	94,404	0	0	0	0
Maine	5,379	6,525	-18.0%	0	0	5,379	6,525	0	0	0	0
Massachusetts	62,558	78,311	-20.0%	830	484	61,728	77,827	0	0	0	0
New Hampshire	18,191	16,176	12.0%	183	47	18,008	16,129	0	0	0	0
Rhode Island	25,198	34,372	-27.0%	0	0	25,198	34,372	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	936,515	867,658	7.9%	67,073	63,925	862,620	797,116	0	0	6,822	6,617
New Jersey	144,477	191,685	-25.0%	0	0	144,477	191,685	0	0	0	0
New York	253,182	248,832	1.7%	67,073	63,925	181,247	179,948	0	0	4,862	4,958
Pennsylvania	538,855	427,141	26.0%	0	0	536,895	425,483	0	0	1,960	1,659
East North Central	731,384	762,742	-4.1%	259,601	253,340	458,240	495,370	3,956	4,689	9,587	9,343
Illinois	80,093	110,223	-27.0%	12,964	7,234	67,108	102,973	0	0	21	17
Indiana	140,795	136,136	3.4%	62,949	62,569	77,846	73,567	0	0	0	0
Michigan	184,921	170,924	8.2%	58,523	52,272	118,548	110,058	3,956	4,689	3,894	3,905
Ohio	229,643	250,070	-8.2%	38,485	46,185	187,278	200,115	0	0	3,879	3,769
Wisconsin	95,933	95,388	0.6%	86,680	85,080	7,460	8,657	0	0	1,793	1,652
West North Central	110,822	183,942	-40.0%	92,274	155,081	14,419	24,450	1,398	1,432	2,731	2,979
Iowa	36,421	45,867	-21.0%	33,690	42,888	0	0	0	0	2,731	2,979
Kansas	11,765	15,863	-26.0%	11,765	15,863	0	0	0	0	0	0
Minnesota	25,011	55,224	-55.0%	23,184	43,299	1,815	11,921	12	5	0	0
Missouri	33,509	42,237	-21.0%	19,520	28,280	12,604	12,529	1,386	1,427	0	0
Nebraska	1,635	9,031	-82.0%	1,635	9,031	0	0	0	0	0	0
North Dakota	2,480	10,091	-75.0%	2,480	10,091	0	0	0	0	0	0
South Dakota	0	5,630	-100.0%	0	5,630	0	0	0	0	0	0
South Atlantic	1,874,726	1,868,973	0.3%	1,550,797	1,550,609	298,630	294,730	0	0	25,299	23,635
Delaware	19,049	19,531	-2.5%	0	0	19,049	19,531	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	891,884	865,772	3.0%	859,300	835,194	29,934	27,519	0	0	2,651	3,058
Georgia	249,264	286,995	-13.0%	186,709	216,013	56,475	65,520	0	0	6,080	5,462
Maryland	64,328	68,433	-6.0%	14,934	20,752	49,394	46,530	0	0	0	1,151
North Carolina	204,857	207,279	-1.2%	167,247	161,800	35,377	43,747	0	0	2,233	1,732
South Carolina	126,921	120,118	5.7%	123,567	117,259	1,866	2,191	0	0	1,487	667
Virginia	301,471	287,930	4.7%	198,328	197,970	95,109	82,961	0	0	8,035	6,999
West Virginia	16,953	12,916	31.0%	713	1,620	11,427	6,731	0	0	4,813	4,565
East South Central	659,880	680,628	-3.0%	466,320	491,311	174,896	171,630	0	0	18,665	17,687
Alabama	248,543	270,744	-8.2%	78,899	101,842	169,644	168,902	0	0	0	0
Kentucky	65,774	71,572	-8.1%	60,603	68,914	5,171	2,659	0	0	0	0
Mississippi	260,735	240,645	8.3%	260,654	240,576	81	69	0	0	0	0
Tennessee	84,828	97,667	-13.0%	66,163	79,980	0	0	0	0	18,665	17,687
West South Central	2,014,328	2,194,110	-8.2%	643,407	744,367	942,494	1,003,754	0	0	428,427	445,990
Arkansas	73,091	108,032	-32.0%	62,528	97,164	8,870	9,013	0	0	1,693	1,855
Louisiana	372,652	387,248	-3.8%	212,535	207,925	22,990	29,814	0	0	137,127	149,509
Oklahoma	226,022	228,402	-1.0%	142,700	148,567	79,198	76,372	0	0	4,125	3,464
Texas	1,342,563	1,470,428	-8.7%	225,645	290,712	831,436	888,555	0	0	285,482	291,162
Mountain	581,339	547,836	6.1%	495,428	462,174	85,618	85,504	0	0	293	158
Arizona	253,146	225,514	12.0%	199,453	174,919	53,692	50,595	0	0	0	0
Colorado	91,627	83,668	9.5%	78,915	71,306	12,712	12,361	0	0	0	0
Idaho	6,539	15,929	-59.0%	6,539	8,605	0	7,324	0	0	0	0
Montana	1,527	1,829	-17.0%	1,527	1,809	0	19	0	0	0	0
Nevada	122,936	116,403	5.6%	122,936	116,403	0	0	0	0	0	0
New Mexico	62,092	59,744	3.9%	42,892	44,552	19,200	15,192	0	0	0	0
Utah	39,944	42,702	-6.5%	39,651	42,544	0	0	0	0	293	158
Wyoming	3,527	2,047	72.0%	3,514	2,036	13	11	0	0	0	0
Pacific Contiguous	446,075	462,642	-3.6%	166,543	192,157	259,991	252,154	0	0	19,540	18,332
California	349,828	315,963	11.0%	119,206	109,569	211,082	188,062	0	0	19,540	18,332
Oregon	62,390	88,921	-30.0%	23,746	44,209	38,644	44,712	0	0	0	0
Washington	33,857	57,759	-41.0%	23,591	38,379	10,266	19,379	0	0	0	0
Pacific Noncontiguous	191	10,228	-98.0%	191	10,228	0	0	0	0	0	0
Alaska	191	10,228	-98.0%	191	10,228	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	7,568,983	7,808,550	-3.1%	3,742,648	3,923,724	3,309,617	3,353,964	5,354	6,121	511,365	524,741

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 for 2019 are final. Values for 2020 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, August 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.68	1.84	-8.7%	--	--	1.68	1.84
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	--	--	W	W
East North Central	1.88	1.96	-4.1%	1.95	2.09	1.75	1.78
Illinois	W	1.77	W	1.49	1.99	W	1.69
Indiana	W	W	W	2.07	2.13	W	W
Michigan	W	W	W	1.99	2.06	W	W
Ohio	1.83	W	W	1.88	1.79	1.82	W
Wisconsin	1.83	2.17	-16.0%	1.83	2.17	--	--
West North Central	1.52	1.58	-3.8%	1.52	1.58	--	--
Iowa	1.49	1.54	-3.2%	1.49	1.54	--	--
Kansas	1.50	1.59	-5.7%	1.50	1.59	--	--
Minnesota	1.89	1.98	-4.5%	1.89	1.98	--	--
Missouri	1.52	1.63	-6.7%	1.52	1.63	--	--
Nebraska	1.23	1.22	0.8%	1.23	1.22	--	--
North Dakota	1.49	1.47	1.4%	1.49	1.47	--	--
South Dakota	2.06	2.00	3.0%	2.06	2.00	--	--
South Atlantic	2.32	2.55	-9.0%	2.38	2.57	1.86	2.32
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.39	2.80	-15.0%	2.39	2.80	--	--
Georgia	2.69	2.68	0.4%	2.69	2.68	--	--
Maryland	W	2.56	W	--	--	W	2.56
North Carolina	W	W	W	2.56	2.62	W	W
South Carolina	W	W	W	3.32	3.14	W	W
Virginia	2.51	W	W	2.51	2.70	--	W
West Virginia	W	2.15	W	2.07	2.17	W	2.08
East South Central	W	W	W	1.98	2.06	W	W
Alabama	2.23	2.32	-3.9%	2.23	2.32	--	--
Kentucky	1.83	1.90	-3.7%	1.83	1.90	--	--
Mississippi	W	W	W	2.62	2.92	W	W
Tennessee	1.99	2.06	-3.4%	1.99	2.06	--	--
West South Central	1.80	1.82	-1.1%	2.01	2.09	1.54	1.49
Arkansas	W	W	W	1.77	1.89	W	W
Louisiana	W	W	W	2.03	3.14	W	W
Oklahoma	1.58	1.63	-3.1%	1.58	1.63	--	--
Texas	W	W	W	2.24	2.07	W	W
Mountain	W	W	W	1.98	2.04	W	W
Arizona	2.08	2.66	-22.0%	2.08	2.66	--	--
Colorado	1.66	1.76	-5.7%	1.66	1.76	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.10	1.98	W	W
Nevada	W	W	W	2.31	2.64	W	W
New Mexico	2.56	2.52	1.6%	2.56	2.52	--	--
Utah	2.01	1.90	5.8%	2.01	1.90	--	--
Wyoming	W	W	W	1.80	1.56	W	W
Pacific Contiguous	W	W	W	--	2.40	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.40	--	--	2.40	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.19	3.52	W	W
Alaska	3.19	3.52	-9.4%	3.19	3.52	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.89	2.00	-5.5%	1.94	2.06	1.72	1.78

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 for 2019 are final. Values for 2020 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) August 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 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	1.81	1.92	-5.7%	2.99	--	1.80	1.92
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	1.86	W	2.99	--	W	1.86
East North Central	1.90	1.99	-4.5%	2.01	2.12	1.74	1.81
Illinois	W	W	W	1.60	1.97	W	W
Indiana	W	W	W	2.09	2.15	W	W
Michigan	W	W	W	2.03	2.09	W	W
Ohio	1.79	1.81	-1.1%	1.87	1.83	1.78	1.80
Wisconsin	1.98	2.24	-12.0%	1.98	2.24	--	--
West North Central	1.56	1.63	-4.3%	1.56	1.63	--	--
Iowa	1.51	1.55	-2.6%	1.51	1.55	--	--
Kansas	1.59	1.62	-1.9%	1.59	1.62	--	--
Minnesota	1.95	2.03	-3.9%	1.95	2.03	--	--
Missouri	1.56	1.67	-6.6%	1.56	1.67	--	--
Nebraska	1.23	1.24	-0.8%	1.23	1.24	--	--
North Dakota	1.62	1.58	2.5%	1.62	1.58	--	--
South Dakota	1.92	1.85	3.8%	1.92	1.85	--	--
South Atlantic	2.41	2.60	-7.3%	2.46	2.63	2.01	2.39
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.53	2.88	-12.0%	2.53	2.88	--	--
Georgia	2.72	2.72	0.0%	2.72	2.72	--	--
Maryland	W	2.68	W	--	--	W	2.68
North Carolina	W	W	W	2.59	2.88	W	W
South Carolina	W	W	W	3.16	3.21	W	W
Virginia	2.49	W	W	2.49	2.74	--	W
West Virginia	W	2.08	W	2.13	2.11	W	1.96
East South Central	W	W	W	1.96	2.09	W	W
Alabama	2.08	2.36	-12.0%	2.08	2.36	--	--
Kentucky	1.88	1.93	-2.6%	1.88	1.93	--	--
Mississippi	W	W	W	2.81	3.11	W	W
Tennessee	1.95	2.16	-9.7%	1.95	2.16	--	--
West South Central	1.80	1.89	-4.8%	2.02	2.14	1.60	1.59
Arkansas	W	W	W	1.86	1.99	W	W
Louisiana	W	W	W	3.14	3.27	W	W
Oklahoma	1.57	1.74	-9.8%	1.57	1.74	--	--
Texas	W	W	W	2.02	2.07	W	W
Mountain	W	W	W	1.97	2.09	W	W
Arizona	2.15	2.65	-19.0%	2.15	2.65	--	--
Colorado	1.70	1.78	-4.5%	1.70	1.78	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.22	1.98	W	W
Nevada	W	W	W	2.39	2.80	W	W
New Mexico	2.53	2.49	1.6%	2.53	2.49	--	--
Utah	2.06	1.97	4.6%	2.06	1.97	--	--
Wyoming	W	W	W	1.71	1.72	W	W
Pacific Contiguous	W	W	W	2.18	2.25	W	W
California	--	--	--	--	--	--	--
Oregon	2.18	2.25	-3.1%	2.18	2.25	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.51	3.46	W	W
Alaska	3.51	3.46	1.4%	3.51	3.46	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.91	2.04	-6.4%	1.96	2.11	1.75	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 for 2019 are final. Values for 2020 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, August 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019
New England	W	16.62	W	--	17.71	W	15.51
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	19.65	W	W
New Hampshire	--	17.62	--	--	17.62	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	9.37	15.04	-38.0%	--	18.72	9.37	15.04
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	18.72	W	W
Pennsylvania	W	15.01	W	--	--	W	15.01
East North Central	9.76	14.07	-31.0%	9.67	13.95	9.95	14.54
Illinois	W	W	W	10.06	--	W	W
Indiana	10.18	14.13	-28.0%	10.18	14.13	--	--
Michigan	9.26	13.35	-31.0%	9.26	13.35	--	--
Ohio	W	W	W	8.81	14.41	W	W
Wisconsin	9.54	14.83	-36.0%	9.54	14.83	--	--
West North Central	9.81	14.01	-30.0%	9.81	14.01	--	--
Iowa	9.83	13.97	-30.0%	9.83	13.97	--	--
Kansas	9.95	14.01	-29.0%	9.95	14.01	--	--
Minnesota	9.43	13.89	-32.0%	9.43	13.89	--	--
Missouri	9.62	14.12	-32.0%	9.62	14.12	--	--
Nebraska	--	13.90	--	--	13.90	--	--
North Dakota	9.94	14.18	-30.0%	9.94	14.18	--	--
South Dakota	--	13.90	--	--	13.90	--	--
South Atlantic	W	14.29	W	11.06	14.34	W	13.75
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	10.09	13.93	-28.0%	10.09	13.93	--	--
Georgia	9.97	W	W	9.97	14.68	--	W
Maryland	9.25	13.49	-31.0%	--	--	9.25	13.49
North Carolina	9.59	W	W	9.59	13.96	--	W
South Carolina	11.90	14.32	-17.0%	11.90	14.32	--	--
Virginia	W	14.38	W	15.14	14.38	W	--
West Virginia	10.77	15.09	-29.0%	10.77	15.09	--	--
East South Central	10.37	13.69	-24.0%	10.37	13.69	--	--
Alabama	10.05	14.62	-31.0%	10.05	14.62	--	--
Kentucky	11.09	13.91	-20.0%	11.09	13.91	--	--
Mississippi	12.86	13.31	-3.4%	12.86	13.31	--	--
Tennessee	9.84	13.52	-27.0%	9.84	13.52	--	--
West South Central	W	W	W	10.29	14.29	W	W
Arkansas	W	--	W	10.14	--	W	--
Louisiana	--	13.94	--	--	13.94	--	--
Oklahoma	--	14.81	--	--	14.81	--	--
Texas	W	W	W	10.39	14.36	W	W
Mountain	W	W	W	11.82	16.67	W	W
Arizona	11.74	16.69	-30.0%	11.74	16.69	--	--
Colorado	10.38	--	--	10.38	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	17.31	W	11.63	17.31	W	--
New Mexico	14.26	20.32	-30.0%	14.26	20.32	--	--
Utah	W	W	W	11.64	16.13	W	W
Wyoming	11.29	15.50	-27.0%	11.29	15.50	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	9.92	13.17	W	W
Alaska	10.88	14.30	-24.0%	10.88	14.30	--	--
Hawaii	W	W	W	9.92	13.16	W	W
U.S. Total	9.96	14.28	-30.0%	10.06	13.65	9.65	16.40

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:
See Glossary for definitions. Values for 2019 are final. Values for 2020 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) August 2020 and 2019 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	W	11.00	W	10.22	16.30	W	10.68
Connecticut	W	16.57	W	--	--	W	16.57
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	7.37	14.19	W	W
New Hampshire	W	17.48	W	17.38	17.48	W	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	W	W	5.22	12.23	W	W
New Jersey	W	12.96	W	--	--	W	12.96
New York	7.68	12.82	-40.0%	5.22	12.23	10.75	14.90
Pennsylvania	9.02	W	W	--	--	9.02	W
East North Central	10.24	15.12	-32.0%	10.00	14.57	10.65	15.98
Illinois	W	W	W	10.76	15.63	W	W
Indiana	10.31	14.72	-30.0%	10.31	14.72	--	--
Michigan	9.63	13.79	-30.0%	9.63	13.79	--	--
Ohio	10.46	15.37	-32.0%	10.21	15.32	10.48	15.40
Wisconsin	W	W	W	9.07	13.94	W	W
West North Central	9.66	14.71	-34.0%	9.66	14.71	--	--
Iowa	9.55	14.57	-34.0%	9.55	14.57	--	--
Kansas	9.88	14.94	-34.0%	9.88	14.94	--	--
Minnesota	9.58	14.95	-36.0%	9.58	14.95	--	--
Missouri	8.95	14.72	-39.0%	8.95	14.72	--	--
Nebraska	11.52	14.79	-22.0%	11.52	14.79	--	--
North Dakota	10.59	14.34	-26.0%	10.59	14.34	--	--
South Dakota	8.82	14.15	-38.0%	8.82	14.15	--	--
South Atlantic	10.62	14.93	-29.0%	11.12	15.03	8.41	14.10
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	8.96	15.32	-42.0%	8.96	15.32	--	--
Georgia	W	W	W	11.03	14.87	W	W
Maryland	8.18	14.22	-42.0%	--	--	8.18	14.22
North Carolina	10.76	W	W	10.76	14.67	--	W
South Carolina	W	W	W	10.48	15.14	W	W
Virginia	W	W	W	14.70	14.31	W	W
West Virginia	12.33	15.33	-20.0%	12.33	15.33	--	--
East South Central	10.33	W	W	10.33	14.45	--	W
Alabama	9.58	W	W	9.58	15.10	--	W
Kentucky	10.38	14.54	-29.0%	10.38	14.54	--	--
Mississippi	10.27	14.33	-28.0%	10.27	14.33	--	--
Tennessee	10.33	14.23	-27.0%	10.33	14.23	--	--
West South Central	9.46	W	W	9.44	14.80	9.55	W
Arkansas	W	W	W	9.75	15.04	W	W
Louisiana	10.82	14.68	-26.0%	10.82	14.68	--	--
Oklahoma	7.74	15.52	-50.0%	7.74	15.52	--	--
Texas	W	W	W	10.94	14.40	W	W
Mountain	12.94	16.73	-23.0%	12.96	16.80	12.50	15.94
Arizona	13.31	16.87	-21.0%	13.31	16.87	--	--
Colorado	11.70	17.36	-33.0%	11.70	17.36	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	14.45	16.01	W	W
New Mexico	13.05	18.65	-30.0%	13.05	18.65	--	--
Utah	W	W	W	12.92	16.69	W	W
Wyoming	12.53	15.77	-21.0%	12.53	15.77	--	--
Pacific Contiguous	W	W	W	--	16.52	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	16.52	W	W
Pacific Noncontiguous	W	W	W	9.47	13.06	W	W
Alaska	11.79	15.35	-23.0%	11.79	15.35	--	--
Hawaii	W	W	W	9.46	13.06	W	W
U.S. Total	9.68	13.85	-30.0%	9.82	13.62	9.25	14.61

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 for 2019 are final. Values for 2020 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, August 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.24	1.56	-21.0%	1.24	1.56	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.21	1.53	-21.0%	1.21	1.53	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.82	1.83	-0.5%	1.82	1.83	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.54	2.42	5.0%	2.54	2.42	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.54	2.42	5.0%	2.54	2.42	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.55	1.60	-3.1%	1.55	1.60	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.55	1.60	-3.1%	1.55	1.60	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.83	1.72	6.4%	1.83	1.72	--	--

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 for 2019 are final. Values for 2020 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) August 2020 and 2019 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.26	1.57	-20.0%	1.26	1.57	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.18	1.53	-23.0%	1.18	1.53	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.88	1.87	0.5%	1.88	1.87	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.02	2.71	-25.0%	2.02	2.71	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.02	2.71	-25.0%	2.02	2.71	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.39	2.10	-34.0%	1.39	2.10	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.39	2.10	-34.0%	1.39	2.10	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.54	2.14	-28.0%	1.54	2.14	--	--

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 for 2019 are final. Values for 2020 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, August 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020	August 2019	Percentage Change	August 2020	August 2019	August 2020	August 2019
New England	W	W	W	2.16	2.43	W	W
Connecticut	1.83	2.43	-25.0%	--	--	1.83	2.43
Maine	W	W	W	--	--	W	W
Massachusetts	2.09	2.69	-22.0%	1.79	2.38	2.09	2.69
New Hampshire	W	W	W	6.67	13.55	W	W
Rhode Island	W	2.33	W	--	--	W	2.33
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.58	2.11	-25.0%	1.93	2.16	1.54	2.11
New Jersey	1.49	2.42	-38.0%	--	--	1.49	2.42
New York	1.80	2.18	-17.0%	1.93	2.16	1.74	2.18
Pennsylvania	1.47	1.94	-24.0%	--	--	1.47	1.94
East North Central	2.13	2.27	-6.2%	2.31	2.36	2.04	2.22
Illinois	W	2.56	W	2.20	2.42	W	2.58
Indiana	2.23	W	W	2.31	2.56	2.16	W
Michigan	2.26	2.26	0.0%	2.49	2.34	2.13	2.20
Ohio	1.86	2.08	-11.0%	1.79	2.12	1.88	2.07
Wisconsin	W	W	W	2.42	2.32	W	W
West North Central	W	W	W	2.33	2.22	W	W
Iowa	1.95	2.18	-11.0%	1.95	2.18	--	--
Kansas	2.71	2.20	23.0%	2.71	2.20	--	--
Minnesota	W	W	W	2.63	2.39	W	W
Missouri	W	W	W	2.26	2.10	W	W
Nebraska	2.75	2.43	13.0%	2.75	2.43	--	--
North Dakota	2.98	1.97	51.0%	2.98	1.97	--	--
South Dakota	--	1.94	--	--	1.94	--	--
South Atlantic	2.73	2.89	-5.5%	2.83	2.96	2.09	2.41
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.20	W	3.03	3.21	W	3.14
Georgia	W	2.46	W	2.39	2.43	W	2.56
Maryland	2.39	W	W	2.39	2.40	2.39	W
North Carolina	W	3.06	W	3.03	3.24	W	2.41
South Carolina	2.74	2.85	-3.9%	2.74	2.85	--	--
Virginia	2.03	2.37	-14.0%	2.25	2.47	1.42	2.05
West Virginia	W	W	W	1.91	2.08	W	W
East South Central	2.44	2.48	-1.6%	2.45	2.49	2.39	2.43
Alabama	W	W	W	2.47	2.48	W	W
Kentucky	W	W	W	2.75	2.83	W	W
Mississippi	W	W	W	2.39	2.40	W	W
Tennessee	2.36	2.50	-5.6%	2.36	2.50	--	--
West South Central	2.29	2.12	8.0%	2.29	2.08	2.30	2.17
Arkansas	W	W	W	2.27	2.38	W	W
Louisiana	W	W	W	2.37	2.37	W	W
Oklahoma	W	W	W	2.44	2.01	W	W
Texas	2.26	2.08	8.7%	2.13	1.87	2.31	2.17
Mountain	2.47	2.24	10.0%	2.39	2.17	3.61	2.93
Arizona	W	W	W	2.40	2.08	W	W
Colorado	W	W	W	2.83	2.46	W	W
Idaho	2.37	2.25	5.3%	2.37	2.25	--	--
Montana	2.01	W	W	2.01	0.81	--	W
Nevada	2.48	2.48	0.0%	2.48	2.48	--	--
New Mexico	1.59	1.12	42.0%	1.59	1.12	--	--
Utah	2.15	2.30	-6.5%	2.15	2.30	--	--
Wyoming	W	W	W	2.09	2.27	W	W
Pacific Contiguous	3.57	2.69	33.0%	3.15	2.66	3.90	2.72
California	W	3.13	W	3.55	3.35	W	2.96
Oregon	W	W	W	1.82	1.61	W	W
Washington	W	W	W	2.58	2.31	W	W
Pacific Noncontiguous	7.82	7.02	11.0%	7.82	7.02	--	--
Alaska	7.82	7.02	11.0%	7.82	7.02	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.40	2.42	-0.8%	2.57	2.52	2.16	2.27

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 for 2019 are final. Values for 2020 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) August 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2020 YTD	August 2019 YTD	Percentage Change	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	W	W	W	2.07	3.30	W	W
Connecticut	2.21	3.59	-38.0%	--	--	2.21	3.59
Maine	W	W	W	--	--	W	W
Massachusetts	3.50	4.53	-23.0%	1.79	3.03	3.53	4.55
New Hampshire	W	W	W	3.34	6.07	W	W
Rhode Island	W	3.32	W	--	--	W	3.32
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.76	2.78	-37.0%	2.27	3.33	1.71	2.73
New Jersey	1.82	2.95	-38.0%	--	--	1.82	2.95
New York	2.00	3.12	-36.0%	2.27	3.33	1.88	3.03
Pennsylvania	1.62	2.52	-36.0%	--	--	1.62	2.52
East North Central	1.91	2.73	-30.0%	2.06	2.83	1.82	2.69
Illinois	W	3.17	W	1.92	3.06	W	3.18
Indiana	1.95	W	W	2.05	2.87	1.87	W
Michigan	1.97	2.70	-27.0%	2.11	2.80	1.90	2.65
Ohio	1.74	2.55	-32.0%	1.74	2.68	1.74	2.53
Wisconsin	W	W	W	2.21	2.87	W	W
West North Central	W	W	W	2.12	2.76	W	W
Iowa	1.81	2.57	-30.0%	1.81	2.57	--	--
Kansas	2.48	2.81	-12.0%	2.48	2.81	--	--
Minnesota	W	W	W	2.41	2.99	W	W
Missouri	W	W	W	1.97	2.56	W	W
Nebraska	3.27	2.84	15.0%	3.27	2.84	--	--
North Dakota	2.55	3.20	-20.0%	2.55	3.20	--	--
South Dakota	--	2.60	--	--	2.60	--	--
South Atlantic	2.71	3.50	-23.0%	2.83	3.59	1.96	2.90
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.79	W	2.97	3.80	W	3.42
Georgia	W	2.96	W	2.21	2.96	W	2.95
Maryland	2.25	3.20	-30.0%	2.40	3.41	2.21	3.11
North Carolina	W	3.64	W	3.23	3.86	W	2.84
South Carolina	2.59	3.22	-20.0%	2.59	3.22	--	--
Virginia	2.40	3.27	-27.0%	2.67	3.44	1.61	2.65
West Virginia	W	2.38	W	1.84	2.50	W	2.35
East South Central	2.24	2.89	-22.0%	2.28	2.91	2.08	2.82
Alabama	W	W	W	2.27	2.90	W	W
Kentucky	W	W	W	2.80	3.33	W	W
Mississippi	W	W	W	2.15	2.80	W	W
Tennessee	2.31	2.91	-21.0%	2.31	2.91	--	--
West South Central	1.94	2.45	-21.0%	1.97	2.43	1.92	2.47
Arkansas	W	W	W	1.97	2.67	W	W
Louisiana	W	W	W	2.06	2.74	W	W
Oklahoma	W	W	W	2.06	2.51	W	W
Texas	1.90	2.37	-20.0%	1.81	2.08	1.93	2.48
Mountain	2.25	2.60	-13.0%	2.23	2.56	2.56	2.98
Arizona	W	W	W	2.13	2.03	W	W
Colorado	W	W	W	2.63	3.07	W	W
Idaho	2.29	4.58	-50.0%	2.29	4.58	--	--
Montana	1.59	W	W	1.59	1.55	--	W
Nevada	2.42	3.13	-23.0%	2.42	3.13	--	--
New Mexico	1.36	1.05	30.0%	1.36	1.05	--	--
Utah	2.24	3.18	-30.0%	2.24	3.18	--	--
Wyoming	W	W	W	1.96	3.20	W	W
Pacific Contiguous	2.76	3.61	-24.0%	2.80	3.62	2.72	3.60
California	2.89	3.97	-27.0%	3.04	4.37	2.77	3.65
Oregon	W	W	W	1.89	2.20	W	W
Washington	W	W	W	2.70	3.42	W	W
Pacific Noncontiguous	7.86	6.91	14.0%	7.86	6.91	--	--
Alaska	7.86	6.91	14.0%	7.86	6.91	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.24	2.97	-25.0%	2.45	3.09	1.96	2.80

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 for 2019 are final. Values for 2020 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, August 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	5	0.58	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.58	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	803	2.57	9.8	0	--	--	0	--	--
New Jersey	16	1.45	7.9	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	787	2.59	9.9	0	--	--	0	--	--
East North Central	4,186	3.17	10.4	4,511	0.25	4.6	0	--	--
Illinois	657	3.36	20.2	1,518	0.21	4.5	0	--	--
Indiana	1,916	2.91	9.1	100	0.21	4.4	0	--	--
Michigan	231	2.49	7.5	1,554	0.30	4.6	0	--	--
Ohio	1,335	3.60	9.0	0	--	--	0	--	--
Wisconsin	47	2.15	7.7	1,340	0.24	4.8	0	--	--
West North Central	47	2.97	9.5	6,471	0.28	4.9	1,935	0.74	9.3
Iowa	2	3.32	9.3	1,038	0.24	4.8	0	--	--
Kansas	10	2.69	12.1	1,190	0.31	5.0	0	--	--
Minnesota	0	--	--	783	0.35	5.9	0	--	--
Missouri	36	3.03	8.7	2,367	0.24	4.7	0	--	--
Nebraska	0	--	--	965	0.24	4.7	0	--	--
North Dakota	0	--	--	0	--	--	1,935	0.74	9.3
South Dakota	0	--	--	128	0.84	5.1	0	--	--
South Atlantic	4,542	2.50	9.3	333	0.30	5.1	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	498	2.77	8.6	0	--	--	0	--	--
Georgia	282	2.55	8.6	333	0.30	5.1	0	--	--
Maryland	126	2.14	10.6	0	--	--	0	--	--
North Carolina	874	1.74	9.2	0	--	--	0	--	--
South Carolina	289	1.53	9.1	0	--	--	0	--	--
Virginia	194	1.33	17.0	0	--	--	0	--	--
West Virginia	2,279	2.95	9.0	0	--	--	0	--	--
East South Central	2,570	2.56	9.1	1,526	0.31	5.1	290	0.46	13.8
Alabama	274	0.87	9.3	864	0.35	5.2	0	--	--
Kentucky	1,829	2.92	9.4	429	0.26	5.0	0	--	--
Mississippi	12	0.40	7.8	160	0.30	4.9	290	0.46	13.8
Tennessee	455	2.10	7.9	73	0.24	5.0	0	--	--
West South Central	33	2.62	10.6	4,676	0.29	5.0	1,791	0.97	15.9
Arkansas	3	0.44	9.6	841	0.23	4.5	0	--	--
Louisiana	28	2.97	8.9	240	0.27	4.6	0	--	--
Oklahoma	3	0.44	59.4	615	0.22	4.7	0	--	--
Texas	0	--	--	2,980	0.32	5.2	1,791	0.97	15.9
Mountain	1,361	0.56	14.0	4,650	0.52	9.0	13	0.58	9.1
Arizona	0	--	--	822	0.65	10.2	0	--	--
Colorado	82	0.50	11.0	837	0.33	5.5	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	551	0.68	9.2	13	0.58	9.1
Nevada	24	0.37	11.8	75	0.26	4.7	0	--	--
New Mexico	266	0.87	24.2	490	0.80	20.9	0	--	--
Utah	989	0.49	12.0	54	0.99	8.5	0	--	--
Wyoming	0	--	--	1,821	0.42	7.0	0	--	--
Pacific Contiguous	44	0.38	11.7	237	0.37	8.6	0	--	--
California	44	0.38	11.7	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	237	0.37	8.6	0	--	--
Pacific Noncontiguous	0	--	--	60	0.39	5.1	9	0.16	11.1
Alaska	0	--	--	0	--	--	9	0.16	11.1
Hawaii	0	--	--	60	0.39	5.1	0	--	--
U.S. Total	13,592	2.53	10.1	22,464	0.33	5.8	4,038	0.82	12.5

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 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, August 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	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	2,289	2.88	9.0	3,187	0.27	4.6	0	--	--
Illinois	94	2.54	10.5	194	0.22	4.5	0	--	--
Indiana	1,714	2.87	9.1	100	0.21	4.4	0	--	--
Michigan	219	2.60	7.5	1,554	0.30	4.6	0	--	--
Ohio	216	3.57	9.0	0	--	--	0	--	--
Wisconsin	47	2.15	7.7	1,340	0.24	4.8	0	--	--
West North Central	46	2.96	9.5	6,305	0.28	4.9	1,935	0.74	9.3
Iowa	0	--	--	921	0.24	4.8	0	--	--
Kansas	10	2.69	12.1	1,190	0.31	5.0	0	--	--
Minnesota	0	--	--	783	0.35	5.9	0	--	--
Missouri	36	3.03	8.7	2,367	0.24	4.7	0	--	--
Nebraska	0	--	--	918	0.24	4.7	0	--	--
North Dakota	0	--	--	0	--	--	1,935	0.74	9.3
South Dakota	0	--	--	128	0.84	5.1	0	--	--
South Atlantic	3,958	2.40	9.3	333	0.30	5.1	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	498	2.77	8.6	0	--	--	0	--	--
Georgia	272	2.60	8.6	333	0.30	5.1	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	854	1.76	9.2	0	--	--	0	--	--
South Carolina	270	1.56	9.1	0	--	--	0	--	--
Virginia	177	1.40	18.2	0	--	--	0	--	--
West Virginia	1,888	2.77	9.0	0	--	--	0	--	--
East South Central	2,533	2.59	9.2	1,526	0.31	5.1	0	--	--
Alabama	274	0.87	9.3	864	0.35	5.2	0	--	--
Kentucky	1,829	2.92	9.4	429	0.26	5.0	0	--	--
Mississippi	12	0.40	7.8	160	0.30	4.9	0	--	--
Tennessee	417	2.20	8.0	73	0.24	5.0	0	--	--
West South Central	30	2.88	10.7	3,041	0.25	4.9	458	1.38	21.0
Arkansas	0	--	--	710	0.22	4.5	0	--	--
Louisiana	28	2.97	8.9	110	0.23	4.6	0	--	--
Oklahoma	3	0.44	59.4	615	0.22	4.7	0	--	--
Texas	0	--	--	1,606	0.28	5.1	458	1.38	21.0
Mountain	1,361	0.56	14.0	3,980	0.51	9.1	13	0.58	9.1
Arizona	0	--	--	822	0.65	10.2	0	--	--
Colorado	82	0.50	11.0	837	0.33	5.5	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	13	0.58	9.1
Nevada	24	0.37	11.8	0	--	--	0	--	--
New Mexico	266	0.87	24.2	490	0.80	20.9	0	--	--
Utah	989	0.49	12.0	54	0.99	8.5	0	--	--
Wyoming	0	--	--	1,777	0.42	7.0	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	9	0.16	11.1
Alaska	0	--	--	0	--	--	9	0.16	11.1
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	10,217	2.33	9.8	18,372	0.33	5.8	2,414	0.85	11.3

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:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, August 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	5	0.58	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.58	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	792	2.57	9.9	0	--	--	0	--	--
New Jersey	16	1.45	7.9	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	776	2.59	9.9	0	--	--	0	--	--
East North Central	1,800	3.52	12.3	1,269	0.21	4.4	0	--	--
Illinois	466	3.52	25.6	1,269	0.21	4.4	0	--	--
Indiana	203	3.25	8.9	0	--	--	0	--	--
Michigan	13	0.53	7.2	0	--	--	0	--	--
Ohio	1,119	3.60	9.0	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	538	3.30	9.3	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	126	2.14	10.6	0	--	--	0	--	--
North Carolina	2	0.69	5.8	0	--	--	0	--	--
South Carolina	20	1.14	9.6	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	391	3.79	8.9	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	290	0.46	13.8
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	290	0.46	13.8
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	1,635	0.36	5.2	1,334	0.84	14.4
Arkansas	0	--	--	132	0.25	4.3	0	--	--
Louisiana	0	--	--	130	0.30	4.7	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	1,374	0.37	5.4	1,334	0.84	14.4
Mountain	0	--	--	670	0.61	8.4	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	551	0.68	9.2	0	--	--
Nevada	0	--	--	75	0.26	4.7	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	44	0.36	5.2	0	--	--
Pacific Contiguous	0	--	--	237	0.37	8.6	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	237	0.37	8.6	0	--	--
Pacific Noncontiguous	0	--	--	60	0.39	5.1	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	60	0.39	5.1	0	--	--
U.S. Total	3,136	3.22	11.1	3,871	0.35	5.7	1,623	0.79	14.3

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:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, August 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 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, August 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	2.57	8.3	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.57	8.3	0	--	--	0	--	--
East North Central	97	3.50	8.8	55	0.22	5.7	0	--	--
Illinois	97	3.50	8.8	55	0.22	5.7	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	2	3.32	9.3	166	0.21	4.4	0	--	--
Iowa	2	3.32	9.3	118	0.21	4.4	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	48	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	45	0.92	7.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	11	1.40	10.3	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	18	0.81	6.6	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	17	0.74	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	37	1.06	6.4	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	37	1.06	6.4	0	--	--	0	--	--
West South Central	3	0.44	9.6	0	--	--	0	--	--
Arkansas	3	0.44	9.6	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	44	0.38	11.7	0	--	--	0	--	--
California	44	0.38	11.7	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	239	1.89	8.6	220	0.21	4.7	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 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Chapter 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 - August 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	1,440,289	1,360,877	1,002,353	7,632	3,811,150
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	133,318	112,012	82,610	670	328,609
February	116,608	102,071	76,447	672	295,798
March	112,605	107,468	81,093	686	301,853
April	90,384	102,446	80,460	610	273,900
May	100,331	111,201	84,661	608	296,802
June	120,116	115,745	84,992	608	321,462
July	153,749	130,951	90,752	642	376,095
August	150,083	130,776	91,062	653	372,574
Sept	131,567	122,059	86,160	677	340,463
October	107,997	115,305	84,396	543	308,241
November	102,453	102,840	79,625	614	285,532
December	121,078	108,001	80,095	648	309,823
Year 2020					
January	124,414	108,857	77,426	664	311,361
February	111,931	101,905	75,650	622	290,109
March	104,006	102,937	77,565	577	285,085
April	97,465	90,631	69,591	458	258,145
May	105,412	93,406	71,220	448	270,486
June	131,242	108,695	75,211	480	315,628
July	166,891	125,994	81,276	555	374,716
August	158,821	122,025	82,582	562	363,990
Year to Date					
2018	1,006,164	930,607	668,268	5,123	2,610,162
2019	977,194	912,671	672,077	5,150	2,567,092
2020	1,000,183	854,449	610,521	4,366	2,469,519
Rolling 12 Months Ending in August					
2019	1,440,123	1,363,819	1,004,481	7,692	3,816,115
2020	1,463,278	1,302,655	940,797	6,848	3,713,578

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 2019 and prior years are final. Values for 2020 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 - August 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	187,436	145,280	68,285	737	401,738
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	16,620	11,541	5,433	66	33,660
February	14,831	10,761	5,116	67	30,775
March	14,457	11,238	5,454	63	31,212
April	11,976	10,777	5,239	58	28,050
May	13,356	11,725	5,667	58	30,805
June	16,005	12,618	5,843	61	34,526
July	20,382	14,433	6,476	63	41,354
August	19,955	14,407	6,739	63	41,164
Sept	17,317	13,379	6,085	66	36,847
October	13,837	12,380	5,770	53	32,039
November	13,346	10,874	5,350	58	29,629
December	15,354	11,146	5,112	61	31,674
Year 2020					
January	15,913	11,143	4,901	64	32,020
February	14,382	10,560	4,852	59	29,853
March	13,611	10,714	4,950	57	29,331
April	12,947	9,442	4,454	44	26,887
May	13,866	9,767	4,654	42	28,329
June	17,425	11,900	5,217	50	34,592
July	22,124	13,732	5,825	57	41,738
August	21,145	13,365	5,855	57	40,422
Year to Date					
2018	129,807	99,611	46,407	494	276,319
2019	127,582	97,499	45,968	499	271,548
2020	131,413	90,621	40,708	428	263,170
Rolling 12 Months Ending in August					
2019	186,808	145,314	68,779	748	401,649
2020	191,267	138,402	63,025	667	393,361

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 2019 and prior years are final. Values for 2020 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 - August 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	13.01	10.68	6.81	9.66	10.54
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	12.47	10.30	6.58	9.83	10.24
February	12.72	10.54	6.69	10.02	10.40
March	12.84	10.46	6.73	9.25	10.34
April	13.25	10.52	6.51	9.45	10.24
May	13.31	10.54	6.69	9.46	10.38
June	13.32	10.90	6.87	10.01	10.74
July	13.26	11.02	7.14	9.82	11.00
August	13.30	11.02	7.40	9.65	11.05
Sept	13.16	10.96	7.06	9.78	10.82
October	12.81	10.74	6.84	9.72	10.39
November	13.03	10.57	6.72	9.52	10.38
December	12.68	10.32	6.38	9.46	10.22
Year 2020					
January	12.79	10.24	6.33	9.56	10.28
February	12.85	10.36	6.41	9.41	10.29
March	13.09	10.41	6.38	9.82	10.29
April	13.28	10.42	6.40	9.63	10.42
May	13.15	10.46	6.53	9.29	10.47
June	13.28	10.95	6.94	10.44	10.96
July	13.26	10.90	7.17	10.20	11.14
August	13.31	10.95	7.09	10.20	11.11
Year to Date					
2018	12.90	10.70	6.94	9.65	10.59
2019	13.06	10.68	6.84	9.68	10.58
2020	13.14	10.61	6.67	9.81	10.66
Rolling 12 Months Ending in August					
2019	12.97	10.65	6.85	9.73	10.53
2020	13.07	10.62	6.70	9.74	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 2019 and prior years are final. Values for 2020 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, August 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	5,295	4,672	4,491	4,785	1,300	1,437	38	47	11,123	10,942
Connecticut	1,399	1,250	1,011	1,099	236	270	10	17	2,656	2,636
Maine	484	413	373	384	217	243	0	0	1,074	1,040
Massachusetts	2,337	2,052	2,265	2,390	517	569	27	28	5,146	5,039
New Hampshire	500	441	356	390	160	171	0	0	1,016	1,002
Rhode Island	383	335	320	347	54	67	1	2	758	751
Vermont	191	183	166	175	116	116	0	0	474	474
Middle Atlantic	15,410	14,245	13,217	14,429	6,347	6,860	274	312	35,248	35,845
New Jersey	3,743	3,398	3,330	3,590	583	621	23	23	7,679	7,632
New York	5,959	5,590	6,522	7,273	1,354	1,546	219	237	14,054	14,646
Pennsylvania	5,709	5,258	3,364	3,566	4,410	4,693	32	51	13,515	13,567
East North Central	19,651	18,050	16,227	16,840	15,200	17,177	40	54	51,119	52,122
Illinois	5,182	4,547	4,358	4,586	3,567	3,852	36	50	13,143	13,034
Indiana	3,314	3,261	2,160	2,277	3,412	4,123	1	2	8,887	9,663
Michigan	3,642	3,260	3,521	3,628	2,301	2,631	0	0	9,464	9,519
Ohio	5,312	5,074	4,069	4,202	3,898	4,404	2	2	13,281	13,683
Wisconsin	2,202	1,909	2,120	2,147	2,022	2,167	0	0	6,344	6,222
West North Central	10,339	9,926	9,099	9,442	8,107	8,423	3	4	27,549	27,794
Iowa	1,397	1,317	1,051	1,073	2,104	2,090	0	0	4,551	4,480
Kansas	1,548	1,499	1,470	1,618	966	1,087	0	0	3,985	4,205
Minnesota	2,128	1,900	1,966	2,021	1,684	1,942	2	2	5,780	5,865
Missouri	3,500	3,552	2,755	2,892	1,019	1,203	2	2	7,275	7,649
Nebraska	962	936	884	860	1,211	1,012	0	0	3,057	2,808
North Dakota	365	331	526	549	860	818	0	0	1,752	1,698
South Dakota	439	391	447	428	263	270	0	0	1,149	1,090
South Atlantic	40,035	37,738	29,088	30,622	11,731	12,546	120	124	80,974	81,031
Delaware	553	543	406	429	148	179	0	0	1,108	1,151
District of Columbia	268	267	613	777	16	13	49	30	947	1,087
Florida	14,146	13,179	8,812	9,206	1,499	1,509	6	7	24,463	23,902
Georgia	6,584	6,451	4,378	4,710	2,688	2,882	11	14	13,661	14,057
Maryland	2,886	2,698	2,544	2,740	300	327	42	57	5,772	5,821
North Carolina	6,227	5,963	4,467	4,741	2,138	2,410	2	2	12,834	13,116
South Carolina	3,487	3,333	2,061	2,241	2,297	2,434	0	0	7,845	8,008
Virginia	4,912	4,358	5,173	5,089	1,380	1,589	10	14	11,475	11,050
West Virginia	971	947	634	689	1,264	1,203	0	0	2,870	2,838
East South Central	13,030	12,393	8,664	9,084	8,000	8,724	0	0	29,694	30,201
Alabama	3,570	3,457	2,126	2,327	2,702	2,932	0	0	8,398	8,716
Kentucky	2,667	2,666	1,755	1,924	2,230	2,512	0	0	6,651	7,102
Mississippi	2,129	1,990	1,307	1,419	1,392	1,413	0	0	4,829	4,823
Tennessee	4,664	4,279	3,476	3,415	1,675	1,868	0	0	9,816	9,562
West South Central	26,822	26,598	18,647	20,066	16,132	18,823	18	18	61,618	65,505
Arkansas	1,998	2,007	1,138	1,226	1,558	1,614	0	0	4,694	4,847
Louisiana	3,515	3,384	2,260	2,376	2,799	3,281	1	1	8,574	9,043
Oklahoma	2,714	2,729	1,872	2,060	1,757	1,911	0	0	6,344	6,700
Texas	18,595	18,478	13,377	14,404	10,017	12,016	17	17	42,005	44,915
Mountain	13,316	12,046	9,564	9,901	7,804	8,127	12	16	30,697	30,090
Arizona	5,396	4,815	3,149	3,226	1,259	1,311	1	1	9,804	9,353
Colorado	2,268	2,132	1,877	2,027	1,452	1,504	7	10	5,605	5,673
Idaho	775	740	579	599	1,138	1,124	0	0	2,492	2,464
Montana	441	403	423	422	374	469	0	0	1,238	1,295
Nevada	2,059	1,833	1,276	1,285	1,105	1,154	0	1	4,441	4,272
New Mexico	844	781	840	893	837	841	0	0	2,521	2,515
Utah	1,305	1,141	1,125	1,147	887	874	4	4	3,321	3,167
Wyoming	230	200	294	302	752	849	0	0	1,276	1,351
Pacific Contiguous	14,521	14,011	12,597	15,102	7,566	8,486	56	79	34,740	37,678
California	10,356	10,038	8,877	11,071	4,540	4,841	46	68	23,819	26,017
Oregon	1,580	1,472	1,410	1,471	1,164	1,396	2	2	4,157	4,341
Washington	2,585	2,501	2,309	2,560	1,862	2,250	8	9	6,765	7,320
Pacific Noncontiguous	401	404	431	504	396	458	0	0	1,229	1,367
Alaska	146	137	199	220	118	121	0	0	463	478
Hawaii	256	267	232	284	278	337	0	0	766	888
U.S. Total	158,821	150,083	122,025	130,776	82,582	91,062	562	653	363,990	372,574

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 for 2019 are final. Values for 2020 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 August 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	33,330	31,856	31,938	34,753	9,804	10,947	315	368	75,387	77,923
Connecticut	9,060	8,684	7,440	8,168	1,832	2,079	85	119	18,416	19,050
Maine	3,376	3,258	2,573	2,826	1,635	1,884	0	0	7,585	7,968
Massachusetts	13,948	13,325	15,594	17,091	3,795	4,282	218	230	33,555	34,929
New Hampshire	3,317	3,106	2,710	2,889	1,225	1,289	0	0	7,252	7,284
Rhode Island	2,176	2,070	2,400	2,469	431	472	13	18	5,019	5,030
Vermont	1,454	1,412	1,221	1,310	886	940	0	0	3,561	3,662
Middle Atlantic	94,630	92,173	93,706	103,986	46,843	49,791	2,139	2,532	237,318	248,482
New Jersey	21,031	20,146	23,397	25,785	4,257	4,685	180	204	48,865	50,820
New York	35,636	34,492	46,488	50,498	10,403	11,770	1,692	1,877	94,218	98,637
Pennsylvania	37,963	37,535	23,821	27,703	32,183	33,336	267	451	94,235	99,025
East North Central	132,552	127,663	114,522	121,483	111,840	129,692	356	449	359,270	379,287
Illinois	32,726	31,114	31,025	33,185	26,425	28,995	315	404	90,490	93,698
Indiana	22,537	22,744	14,963	15,849	25,314	30,658	12	14	62,826	69,265
Michigan	24,920	23,054	24,112	25,581	16,375	20,143	3	4	65,410	68,784
Ohio	36,517	35,805	29,342	30,984	28,827	33,959	25	26	94,711	100,775
Wisconsin	15,852	14,945	15,081	15,883	14,900	15,937	1	1	45,833	46,766
West North Central	73,331	72,800	64,693	68,902	57,802	62,455	27	33	195,853	204,190
Iowa	10,017	10,016	7,779	8,174	15,746	16,124	0	0	33,542	34,315
Kansas	9,506	9,314	9,796	10,665	6,789	7,825	0	0	26,091	27,804
Minnesota	15,629	15,182	14,325	15,398	12,327	14,518	13	17	42,294	45,115
Missouri	24,219	24,339	19,201	20,393	7,373	8,774	14	16	50,807	53,523
Nebraska	7,148	7,077	6,091	6,332	7,344	7,120	0	0	20,583	20,529
North Dakota	3,387	3,410	4,277	4,643	6,411	6,166	0	0	14,075	14,219
South Dakota	3,425	3,462	3,223	3,296	1,813	1,928	0	0	8,461	8,686
South Atlantic	252,684	250,830	201,031	213,371	87,284	94,802	803	919	541,802	559,923
Delaware	3,422	3,484	2,795	2,976	1,223	1,386	0	0	7,440	7,846
District of Columbia	1,695	1,772	4,512	5,429	137	130	212	225	6,555	7,555
Florida	87,202	84,835	60,765	64,313	10,789	11,065	51	58	158,807	160,272
Georgia	40,298	40,168	29,849	31,845	19,654	21,834	95	111	89,896	93,958
Maryland	18,990	19,154	17,876	19,585	2,254	2,529	327	388	39,447	41,657
North Carolina	40,282	40,648	30,983	32,978	16,610	18,396	11	12	87,886	92,034
South Carolina	21,421	21,196	13,863	15,046	16,627	18,070	0	0	51,911	54,313
Virginia	31,918	32,014	35,720	36,085	10,533	11,765	107	124	78,278	79,989
West Virginia	7,457	7,558	4,667	5,114	9,457	9,627	0	0	21,581	22,298
East South Central	81,325	80,947	57,407	62,136	60,392	66,696	0	0	199,124	209,779
Alabama	21,757	21,798	14,055	15,477	20,382	22,078	0	0	56,194	59,353
Kentucky	18,084	18,174	12,182	13,179	17,324	19,673	0	0	47,589	51,027
Mississippi	12,692	12,398	8,500	9,425	10,580	10,657	0	0	31,771	32,480
Tennessee	28,792	28,577	22,670	24,054	12,107	14,289	0	0	63,569	66,920
West South Central	155,481	153,156	126,522	131,370	123,637	139,008	123	130	405,762	423,664
Arkansas	12,404	12,540	7,340	7,938	10,942	11,595	0	0	30,687	32,073
Louisiana	21,064	20,610	15,303	16,021	22,560	25,297	7	8	58,934	61,937
Oklahoma	16,495	16,226	12,302	13,579	13,352	13,900	0	0	42,149	43,705
Texas	105,518	103,780	91,576	93,832	76,783	88,215	116	121	273,992	285,949
Mountain	74,475	69,142	63,377	66,044	55,857	56,965	108	124	193,817	192,274
Arizona	26,957	24,323	19,460	19,953	9,107	9,260	8	7	55,532	53,542
Colorado	14,012	13,124	13,130	14,116	10,749	10,576	65	77	37,956	37,892
Idaho	5,904	5,785	4,129	4,300	6,526	6,402	0	0	16,559	16,487
Montana	3,567	3,587	3,144	3,311	3,007	3,349	0	0	9,718	10,247
Nevada	9,964	9,109	8,036	7,952	7,952	8,397	3	5	25,955	25,463
New Mexico	5,068	4,659	5,815	6,039	6,074	5,850	0	0	16,957	16,548
Utah	7,060	6,647	7,390	7,976	6,349	6,238	33	34	20,832	20,895
Wyoming	1,942	1,909	2,272	2,397	6,093	6,893	0	0	10,307	11,199
Pacific Contiguous	99,179	95,579	97,841	106,868	54,059	58,531	495	595	251,574	261,573
California	61,612	58,408	69,251	76,268	31,250	31,619	411	513	162,524	166,808
Oregon	13,034	12,738	10,464	10,998	8,097	9,854	17	18	31,613	33,608
Washington	24,534	24,433	18,125	19,602	14,712	17,058	67	64	57,438	61,156
Pacific Noncontiguous	3,195	3,048	3,414	3,759	3,002	3,191	0	0	9,611	9,998
Alaska	1,373	1,275	1,692	1,766	853	827	0	0	3,919	3,868
Hawaii	1,822	1,773	1,721	1,993	2,149	2,363	0	0	5,693	6,130
U.S. Total	1,000,183	977,194	854,449	912,671	610,521	672,077	4,366	5,150	2,469,519	2,567,092

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 for 2019 are final. Values for 2020 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, August 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	1,111	973	729	775	162	183	3	4	2,005	1,934
Connecticut	310	266	182	183	33	36	1	2	525	487
Maine	81	74	44	48	19	21	0	0	145	143
Massachusetts	507	444	369	402	69	81	1	2	946	928
New Hampshire	91	86	55	61	21	22	0	0	167	169
Rhode Island	85	73	53	54	9	10	0	0	146	137
Vermont	37	31	27	27	13	13	0	0	76	71
Middle Atlantic	2,470	2,292	1,744	1,868	407	456	33	35	4,654	4,651
New Jersey	617	536	436	456	62	67	2	2	1,117	1,061
New York	1,097	1,028	1,030	1,109	77	89	28	29	2,231	2,255
Pennsylvania	756	728	278	303	269	301	3	3	1,306	1,335
East North Central	2,616	2,440	1,631	1,709	1,019	1,180	3	4	5,269	5,333
Illinois	639	578	383	413	230	245	2	3	1,255	1,239
Indiana	408	408	229	250	225	296	0	0	862	954
Michigan	604	536	403	415	169	188	0	0	1,177	1,140
Ohio	640	643	381	397	226	286	0	0	1,247	1,326
Wisconsin	324	274	236	233	169	166	0	0	729	674
West North Central	1,354	1,305	954	998	642	679	0	0	2,951	2,982
Iowa	204	188	120	128	177	176	0	0	501	493
Kansas	201	195	157	171	69	80	0	0	427	446
Minnesota	301	260	219	220	141	153	0	0	662	634
Missouri	434	462	279	303	75	95	0	0	788	861
Nebraska	115	110	84	80	93	86	0	0	292	276
North Dakota	44	40	50	52	66	66	0	0	159	157
South Dakota	56	50	45	44	21	22	0	0	122	116
South Atlantic	4,829	4,567	2,643	2,847	747	865	10	10	8,230	8,290
Delaware	67	66	36	38	10	14	0	0	113	117
District of Columbia	33	33	70	88	1	1	5	3	108	124
Florida	1,643	1,543	794	843	107	116	0	1	2,544	2,503
Georgia	849	822	443	490	165	215	1	1	1,458	1,528
Maryland	360	336	237	263	23	26	3	4	624	628
North Carolina	720	688	398	422	142	161	0	0	1,260	1,271
South Carolina	437	426	214	231	140	152	0	0	791	809
Virginia	606	542	394	411	89	109	1	1	1,090	1,064
West Virginia	114	111	57	61	71	73	0	0	242	244
East South Central	1,461	1,415	912	976	458	514	0	0	2,832	2,904
Alabama	455	443	247	272	171	185	0	0	874	899
Kentucky	285	286	175	190	118	139	0	0	578	615
Mississippi	230	222	130	147	79	83	0	0	438	451
Tennessee	492	464	361	367	91	107	0	0	943	939
West South Central	3,003	3,000	1,475	1,691	864	1,256	1	1	5,342	5,948
Arkansas	210	202	96	108	95	106	0	0	400	416
Louisiana	331	333	188	207	128	173	0	0	648	713
Oklahoma	279	292	150	176	82	104	0	0	512	572
Texas	2,182	2,172	1,040	1,200	558	873	1	1	3,782	4,246
Mountain	1,607	1,452	961	993	551	567	1	1	3,119	3,013
Arizona	667	598	339	347	100	92	0	0	1,107	1,036
Colorado	291	268	205	223	110	115	1	1	607	607
Idaho	81	75	47	47	80	75	0	0	207	197
Montana	53	47	45	44	22	26	0	0	119	117
Nevada	222	215	101	111	80	99	0	0	403	425
New Mexico	118	100	96	92	48	46	0	0	262	238
Utah	148	125	100	99	57	56	0	0	305	281
Wyoming	27	24	28	29	54	59	0	0	109	112
Pacific Contiguous	2,586	2,398	2,212	2,426	920	935	6	8	5,724	5,766
California	2,151	1,985	1,884	2,080	747	730	5	6	4,788	4,802
Oregon	178	165	126	128	74	84	0	0	378	378
Washington	256	248	202	218	98	120	1	1	558	586
Pacific Noncontiguous	108	115	103	124	84	104	0	0	296	344
Alaska	35	32	40	43	20	19	0	0	95	95
Hawaii	74	83	63	81	64	85	0	0	201	249
U.S. Total	21,145	19,955	13,365	14,407	5,855	6,739	57	63	40,422	41,164

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 for 2019 are final. Values for 2020 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 August 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	7,104	6,739	5,107	5,731	1,208	1,439	29	36	13,448	13,945
Connecticut	2,054	1,927	1,283	1,397	249	282	12	17	3,598	3,623
Maine	567	582	320	364	148	176	0	0	1,035	1,122
Massachusetts	3,095	2,922	2,504	2,887	493	634	14	15	6,106	6,457
New Hampshire	632	622	416	462	154	169	0	0	1,203	1,253
Rhode Island	473	447	383	414	67	75	3	3	926	939
Vermont	282	241	200	208	97	104	0	0	579	552
Middle Atlantic	14,991	14,525	11,615	12,662	2,987	3,304	242	281	29,835	30,772
New Jersey	3,380	3,235	2,935	3,206	433	488	16	18	6,764	6,947
New York	6,453	6,155	6,650	7,035	567	663	206	230	13,876	14,084
Pennsylvania	5,158	5,135	2,030	2,420	1,987	2,153	20	33	9,196	9,741
East North Central	17,728	17,111	11,588	12,434	7,467	9,053	24	32	36,807	38,630
Illinois	4,186	4,034	2,762	3,014	1,694	1,909	21	29	8,662	8,986
Indiana	2,766	2,868	1,615	1,751	1,717	2,283	1	2	6,100	6,903
Michigan	4,052	3,606	2,806	2,903	1,233	1,423	0	0	8,091	7,932
Ohio	4,388	4,489	2,739	3,057	1,664	2,265	2	2	8,792	9,814
Wisconsin	2,337	2,114	1,666	1,708	1,160	1,173	0	0	5,162	4,995
West North Central	8,895	8,734	6,352	6,750	4,258	4,613	2	3	19,508	20,100
Iowa	1,328	1,267	822	837	1,076	1,093	0	0	3,226	3,197
Kansas	1,214	1,184	1,019	1,097	485	577	0	0	2,719	2,858
Minnesota	2,095	1,996	1,517	1,616	990	1,106	1	2	4,603	4,720
Missouri	2,717	2,778	1,744	1,902	486	638	1	1	4,948	5,320
Nebraska	784	758	557	562	562	555	0	0	1,904	1,876
North Dakota	355	353	387	422	517	492	0	0	1,258	1,267
South Dakota	400	397	307	315	142	151	0	0	849	863
South Atlantic	30,002	29,988	18,307	19,995	5,377	6,192	66	74	53,752	56,247
Delaware	431	432	262	284	85	108	0	0	778	824
District of Columbia	211	229	540	663	11	11	21	22	782	925
Florida	9,977	9,888	5,482	5,948	764	849	4	5	16,227	16,690
Georgia	4,830	4,861	2,931	3,238	1,088	1,375	5	7	8,854	9,481
Maryland	2,464	2,517	1,743	1,974	174	199	25	29	4,406	4,718
North Carolina	4,625	4,637	2,714	2,891	1,027	1,158	1	1	8,367	8,687
South Carolina	2,687	2,715	1,417	1,562	972	1,097	0	0	5,077	5,374
Virginia	3,908	3,865	2,787	2,970	687	816	9	10	7,391	7,661
West Virginia	869	843	432	464	570	580	0	0	1,870	1,888
East South Central	9,227	9,238	6,152	6,694	3,347	3,865	0	0	18,726	19,797
Alabama	2,760	2,756	1,632	1,794	1,198	1,322	0	0	5,589	5,873
Kentucky	1,941	1,952	1,237	1,329	891	1,097	0	0	4,068	4,379
Mississippi	1,426	1,403	885	991	601	623	0	0	2,912	3,017
Tennessee	3,101	3,126	2,398	2,579	658	823	0	0	6,157	6,528
West South Central	17,464	17,086	9,918	10,730	6,278	7,570	8	9	33,669	35,395
Arkansas	1,286	1,236	629	702	621	718	0	0	2,536	2,656
Louisiana	1,957	2,020	1,307	1,432	1,050	1,347	1	1	4,315	4,799
Oklahoma	1,635	1,656	930	1,088	587	722	0	0	3,152	3,466
Texas	12,585	12,175	7,052	7,508	4,020	4,783	8	8	23,665	24,474
Mountain	8,861	8,207	6,096	6,369	3,482	3,660	10	12	18,449	18,248
Arizona	3,367	3,048	2,025	2,078	566	593	1	1	5,959	5,720
Colorado	1,735	1,609	1,354	1,492	776	792	6	7	3,871	3,900
Idaho	591	578	321	333	417	403	0	0	1,328	1,314
Montana	412	396	332	341	148	187	0	0	892	925
Nevada	1,126	1,086	612	636	449	519	0	0	2,188	2,241
New Mexico	660	584	602	595	333	325	0	0	1,595	1,504
Utah	754	694	630	663	375	378	4	4	1,763	1,738
Wyoming	217	213	220	231	418	463	0	0	854	907
Pacific Contiguous	16,263	15,084	14,646	15,197	5,624	5,516	47	52	36,581	35,849
California	12,446	11,313	12,101	12,510	4,410	4,110	39	45	28,996	27,978
Oregon	1,444	1,400	942	974	494	583	2	2	2,881	2,960
Washington	2,374	2,371	1,603	1,713	720	822	7	6	4,704	4,912
Pacific Noncontiguous	878	869	841	938	677	757	0	0	2,396	2,564
Alaska	315	290	337	348	143	139	0	0	795	776
Hawaii	563	579	504	590	534	618	0	0	1,601	1,788
U.S. Total	131,413	127,582	90,621	97,499	40,708	45,968	428	499	263,170	271,548

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 for 2019 are final. Values for 2020 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, August 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	20.98	20.81	16.23	16.20	12.50	12.72	7.63	8.39	18.02	17.68
Connecticut	22.13	21.28	17.97	16.65	13.77	13.24	11.20	12.14	19.76	18.47
Maine	16.82	17.92	11.89	12.48	8.87	8.71	--	--	13.51	13.76
Massachusetts	21.68	21.62	16.29	16.82	13.27	14.28	5.60	5.41	18.38	18.42
New Hampshire	18.28	19.45	15.38	15.65	12.87	12.71	--	--	16.41	16.82
Rhode Island	22.13	21.75	16.42	15.48	16.22	14.62	25.88	17.01	19.30	18.20
Vermont	19.17	16.71	15.93	15.72	11.06	11.16	--	--	16.04	14.98
Middle Atlantic	16.03	16.09	13.20	12.94	6.41	6.65	11.90	11.16	13.20	12.97
New Jersey	16.48	15.78	13.09	12.71	10.56	10.72	9.96	9.25	14.54	13.91
New York	18.41	18.38	15.80	15.24	5.65	5.77	12.63	12.39	15.88	15.40
Pennsylvania	13.25	13.85	8.27	8.49	6.09	6.41	8.34	6.33	9.66	9.84
East North Central	13.31	13.52	10.05	10.15	6.70	6.87	6.37	6.81	10.31	10.23
Illinois	12.33	12.71	8.79	9.01	6.45	6.36	6.13	6.66	9.55	9.51
Indiana	12.32	12.52	10.58	10.98	6.58	7.17	9.78	10.45	9.70	9.87
Michigan	16.60	16.45	11.45	11.44	7.36	7.16	11.95	8.22	12.43	11.97
Ohio	12.06	12.67	9.36	9.46	5.79	6.49	7.19	7.02	9.39	9.69
Wisconsin	14.72	14.38	11.12	10.87	8.37	7.66	14.42	14.09	11.49	10.83
West North Central	13.10	13.14	10.48	10.58	7.92	8.06	10.55	10.27	10.71	10.73
Iowa	14.62	14.31	11.41	11.96	8.41	8.42	--	--	11.01	11.00
Kansas	12.98	13.00	10.66	10.58	7.17	7.38	--	--	10.71	10.61
Minnesota	14.16	13.70	11.13	10.88	8.40	7.89	10.24	9.46	11.45	10.80
Missouri	12.40	13.00	10.12	10.49	7.38	7.93	10.84	11.10	10.83	11.25
Nebraska	11.94	11.75	9.54	9.32	7.64	8.51	--	--	9.55	9.84
North Dakota	11.91	11.95	9.48	9.48	7.64	8.03	--	--	9.09	9.26
South Dakota	12.71	12.68	10.14	10.17	8.05	8.30	--	--	10.64	10.61
South Atlantic	12.06	12.10	9.09	9.30	6.37	6.90	8.77	8.04	10.16	10.23
Delaware	12.15	12.11	8.88	8.85	6.78	7.55	--	--	10.23	10.19
District of Columbia	12.12	12.39	11.35	11.30	7.93	7.83	9.77	8.56	11.43	11.45
Florida	11.61	11.71	9.01	9.16	7.11	7.71	7.57	8.13	10.40	10.47
Georgia	12.89	12.74	10.13	10.41	6.13	7.46	7.11	8.52	10.67	10.87
Maryland	12.48	12.45	9.32	9.59	7.74	7.81	8.14	7.50	10.81	10.80
North Carolina	11.56	11.54	8.91	8.91	6.62	6.66	7.40	7.83	9.82	9.69
South Carolina	12.53	12.79	10.36	10.30	6.11	6.25	--	--	10.08	10.10
Virginia	12.34	12.44	7.63	8.08	6.43	6.85	9.33	8.62	9.50	9.63
West Virginia	11.73	11.68	8.96	8.87	5.61	6.05	--	--	8.42	8.61
East South Central	11.22	11.41	10.53	10.74	5.73	5.89	--	--	9.54	9.62
Alabama	12.76	12.81	11.64	11.68	6.33	6.30	--	--	10.41	10.32
Kentucky	10.67	10.72	9.97	9.89	5.30	5.53	--	--	8.68	8.66
Mississippi	10.78	11.14	9.91	10.33	5.64	5.88	--	--	9.06	9.36
Tennessee	10.55	10.85	10.37	10.76	5.40	5.75	--	--	9.61	9.82
West South Central	11.19	11.28	7.91	8.43	5.35	6.67	6.26	6.49	8.67	9.08
Arkansas	10.51	10.07	8.42	8.82	6.07	6.57	32.30	13.42	8.53	8.59
Louisiana	9.41	9.85	8.34	8.70	4.58	5.28	9.04	8.76	7.55	7.89
Oklahoma	10.29	10.69	8.01	8.56	4.68	5.42	--	--	8.07	8.53
Texas	11.74	11.76	7.78	8.33	5.57	7.26	6.10	6.32	9.00	9.45
Mountain	12.06	12.06	10.05	10.03	7.06	6.97	9.38	9.53	10.16	10.01
Arizona	12.37	12.41	10.77	10.76	7.95	6.98	10.66	10.43	11.29	11.08
Colorado	12.84	12.56	10.94	11.03	7.59	7.66	8.52	8.84	10.84	10.71
Idaho	10.39	10.16	8.06	7.80	7.04	6.64	--	--	8.32	7.98
Montana	11.94	11.66	10.58	10.47	5.89	5.49	--	--	9.65	9.03
Nevada	10.79	11.76	7.89	8.63	7.22	8.57	8.55	10.26	9.07	9.96
New Mexico	13.97	12.81	11.42	10.36	5.74	5.43	--	--	10.39	9.47
Utah	11.32	10.97	8.89	8.64	6.38	6.40	10.61	10.69	9.18	8.87
Wyoming	11.72	11.90	9.65	9.52	7.18	6.96	--	--	8.56	8.27
Pacific Contiguous	17.81	17.12	17.56	16.06	12.16	11.01	10.77	9.58	16.48	15.30
California	20.77	19.78	21.23	18.78	16.46	15.09	10.99	9.62	20.10	18.46
Oregon	11.28	11.22	8.90	8.69	6.38	6.05	9.50	9.13	9.10	8.70
Washington	9.92	9.90	8.76	8.52	5.28	5.32	9.87	9.36	8.25	8.01
Pacific Noncontiguous	27.01	28.56	23.97	24.66	21.28	22.78	--	--	24.10	25.18
Alaska	23.75	23.48	20.13	19.63	17.01	16.02	--	--	20.47	19.82
Hawaii	28.87	31.16	27.28	28.57	23.09	25.21	--	--	26.29	28.07
U.S. Total	13.31	13.30	10.95	11.02	7.09	7.40	10.20	9.65	11.11	11.05

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 for 2019 are final. Values for 2020 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 August 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD	August 2020 YTD	August 2019 YTD
New England	21.31	21.16	15.99	16.49	12.33	13.15	9.14	9.68	17.84	17.90
Connecticut	22.67	22.18	17.25	17.10	13.58	13.58	14.11	14.48	19.54	19.02
Maine	16.80	17.85	12.45	12.88	9.04	9.35	--	--	13.65	14.07
Massachusetts	22.19	21.93	16.06	16.89	12.99	14.79	6.49	6.50	18.20	18.49
New Hampshire	19.06	20.02	15.37	15.99	12.60	13.11	--	--	16.59	17.20
Rhode Island	21.74	21.59	15.97	16.75	15.62	15.82	21.63	18.65	18.45	18.66
Vermont	19.40	17.05	16.36	15.84	10.99	11.03	--	--	16.27	15.07
Middle Atlantic	15.84	15.76	12.40	12.18	6.38	6.64	11.32	11.11	12.57	12.38
New Jersey	16.07	16.06	12.54	12.43	10.17	10.41	9.07	8.89	13.84	13.67
New York	18.11	17.85	14.31	13.93	5.45	5.63	12.14	12.26	14.73	14.28
Pennsylvania	13.59	13.68	8.52	8.74	6.17	6.46	7.63	7.31	9.76	9.84
East North Central	13.37	13.40	10.12	10.23	6.68	6.98	6.76	7.22	10.24	10.18
Illinois	12.79	12.96	8.90	9.08	6.41	6.59	6.58	7.05	9.57	9.59
Indiana	12.27	12.61	10.80	11.05	6.78	7.45	10.37	10.94	9.71	9.97
Michigan	16.26	15.64	11.64	11.35	7.53	7.06	11.16	10.34	12.37	11.53
Ohio	12.02	12.54	9.34	9.87	5.77	6.67	6.56	7.09	9.28	9.74
Wisconsin	14.74	14.15	11.04	10.75	7.78	7.36	14.64	13.91	11.26	10.68
West North Central	12.13	12.00	9.82	9.80	7.37	7.39	8.61	8.93	9.96	9.84
Iowa	13.26	12.65	10.57	10.24	6.83	6.78	--	--	9.62	9.32
Kansas	12.77	12.72	10.40	10.28	7.15	7.37	--	--	10.42	10.28
Minnesota	13.41	13.15	10.59	10.49	8.03	7.62	9.38	9.77	10.88	10.46
Missouri	11.22	11.41	9.08	9.33	6.59	7.27	7.92	8.04	9.74	9.94
Nebraska	10.97	10.72	9.15	8.87	7.66	7.80	--	--	9.25	9.14
North Dakota	10.49	10.36	9.04	9.08	8.06	7.97	--	--	8.94	8.91
South Dakota	11.69	11.46	9.51	9.57	7.85	7.84	--	--	10.04	9.94
South Atlantic	11.87	11.96	9.11	9.37	6.16	6.53	8.17	8.01	9.92	10.05
Delaware	12.60	12.40	9.37	9.55	6.93	7.79	--	--	10.46	10.51
District of Columbia	12.44	12.95	11.96	12.21	8.08	8.26	9.94	9.83	11.94	12.24
Florida	11.44	11.66	9.02	9.25	7.08	7.67	7.62	8.27	10.22	10.41
Georgia	11.99	12.10	9.82	10.17	5.54	6.30	5.30	5.89	9.85	10.09
Maryland	12.97	13.14	9.75	10.08	7.72	7.85	7.74	7.44	11.17	11.33
North Carolina	11.48	11.41	8.76	8.77	6.18	6.30	7.78	8.18	9.52	9.44
South Carolina	12.54	12.81	10.22	10.38	5.85	6.07	--	--	9.78	9.89
Virginia	12.24	12.07	7.80	8.23	6.52	6.93	8.87	8.24	9.44	9.58
West Virginia	11.65	11.16	9.26	9.08	6.02	6.03	--	--	8.67	8.47
East South Central	11.35	11.41	10.72	10.77	5.54	5.80	--	--	9.40	9.44
Alabama	12.68	12.64	11.61	11.59	5.88	5.99	--	--	9.95	9.90
Kentucky	10.73	10.74	10.15	10.09	5.14	5.58	--	--	8.55	8.58
Mississippi	11.23	11.32	10.41	10.52	5.68	5.84	--	--	9.16	9.29
Tennessee	10.77	10.94	10.58	10.72	5.43	5.76	--	--	9.69	9.76
West South Central	11.23	11.16	7.84	8.17	5.08	5.45	6.66	6.66	8.30	8.35
Arkansas	10.37	9.86	8.57	8.84	5.68	6.19	12.91	12.09	8.27	8.28
Louisiana	9.29	9.80	8.54	8.94	4.65	5.32	8.64	9.21	7.32	7.75
Oklahoma	9.91	10.20	7.56	8.01	4.40	5.19	--	--	7.48	7.93
Texas	11.93	11.73	7.70	8.00	5.24	5.42	6.53	6.47	8.64	8.56
Mountain	11.90	11.87	9.62	9.64	6.23	6.43	9.28	9.42	9.52	9.49
Arizona	12.49	12.53	10.41	10.42	6.21	6.40	9.60	9.97	10.73	10.68
Colorado	12.38	12.26	10.31	10.57	7.22	7.49	8.54	8.92	10.20	10.29
Idaho	10.01	9.98	7.76	7.75	6.39	6.29	--	--	8.02	7.97
Montana	11.55	11.05	10.56	10.31	4.91	5.59	--	--	9.17	9.03
Nevada	11.30	11.92	7.62	8.00	5.65	6.18	8.33	8.33	8.43	8.80
New Mexico	13.02	12.54	10.35	9.85	5.49	5.55	--	--	9.41	9.09
Utah	10.68	10.44	8.53	8.31	5.91	6.07	10.75	10.60	8.46	8.32
Wyoming	11.15	11.17	9.67	9.62	6.86	6.72	--	--	8.29	8.10
Pacific Contiguous	16.40	15.78	14.97	14.22	10.40	9.42	9.53	8.82	14.54	13.71
California	20.20	19.37	17.47	16.40	14.11	13.00	9.48	8.74	17.84	16.77
Oregon	11.08	10.99	9.00	8.86	6.10	5.92	9.42	9.14	9.11	8.81
Washington	9.68	9.70	8.84	8.74	4.90	4.82	9.89	9.39	8.19	8.03
Pacific Noncontiguous	27.48	28.51	24.63	24.95	22.55	23.72	--	--	24.93	25.64
Alaska	22.92	22.73	19.92	19.69	16.76	16.75	--	--	20.28	20.06
Hawaii	30.92	32.66	29.26	29.62	24.84	26.15	--	--	28.12	29.16
U.S. Total	13.14	13.06	10.61	10.68	6.67	6.84	9.81	9.68	10.66	10.58

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 for 2019 are final. Values for 2020 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 - August 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	135,249,616	18,694,240	954,222	83	154,898,161
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	134,845,133	18,650,138	932,601	83	154,427,955
February	133,333,741	18,539,519	914,361	83	152,787,704
March	135,170,833	18,635,772	919,551	83	154,726,239
April	134,920,415	18,640,407	933,498	84	154,494,404
May	135,405,612	18,708,360	954,838	81	155,068,891
June	135,074,042	18,637,617	961,090	83	154,672,832
July	135,468,046	18,735,687	988,365	83	155,192,181
August	135,635,335	18,728,398	983,435	82	155,347,250
Sept	135,291,081	18,691,319	975,412	83	154,957,895
October	136,260,010	18,821,137	972,507	83	156,053,737
November	135,340,521	18,705,003	945,483	84	154,991,091
December	136,250,376	18,836,882	968,966	84	156,056,308
Year 2020					
January	136,242,098	18,726,474	936,513	83	155,905,168
February	135,574,675	18,609,362	919,906	83	155,104,026
March	136,735,189	18,790,043	936,497	83	156,461,812
April	136,709,401	18,747,084	942,662	83	156,399,230
May	136,581,044	18,689,150	942,877	83	156,213,154
June	137,113,150	18,781,259	964,445	83	156,858,937
July	137,828,370	18,838,778	977,659	82	157,644,889
August	137,220,273	18,749,015	966,934	82	156,936,304
Rolling 12 Months Ending in August					
2019	134,725,114	18,658,874	911,362	83	154,295,432
2020	136,428,849	18,748,792	954,155	83	156,131,879

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 2019 and prior years are final. Values for 2020 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: August 2020 and 2019

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	6,499,961	6,491,443	903,113	894,988	19,271	23,247	6	6	7,422,351	7,409,684
Connecticut	1,523,555	1,511,517	155,206	151,943	4,067	4,154	3	3	1,682,831	1,667,617
Maine	730,841	723,734	94,825	101,739	2,660	2,865	0	0	828,326	828,338
Massachusetts	2,838,739	2,860,186	422,910	412,932	7,574	11,015	2	2	3,269,225	3,284,135
New Hampshire	635,529	628,676	109,536	108,508	3,115	3,205	0	0	748,180	740,389
Rhode Island	451,797	449,953	61,041	61,383	1,715	1,766	1	1	514,554	513,103
Vermont	319,500	317,377	59,595	58,483	140	242	0	0	379,235	376,102
Middle Atlantic	16,331,334	16,257,845	2,393,775	2,365,352	32,596	34,888	19	20	18,757,724	18,658,105
New Jersey	3,623,707	3,600,238	524,999	523,808	11,492	11,827	6	6	4,160,204	4,135,879
New York	7,236,805	7,236,699	1,145,722	1,125,230	6,410	7,576	8	8	8,388,945	8,369,513
Pennsylvania	5,470,822	5,420,908	723,054	716,314	14,694	15,485	5	6	6,208,575	6,152,713
East North Central	20,596,138	20,265,566	2,543,030	2,514,844	47,293	55,956	11	10	23,186,472	22,836,376
Illinois	5,371,107	5,311,077	625,269	622,489	3,970	5,751	3	3	6,000,349	5,939,320
Indiana	2,934,005	2,882,227	363,174	360,336	15,868	18,547	1	1	3,313,048	3,261,111
Michigan	4,457,071	4,379,850	554,273	542,229	NM	5,781	2	2	5,016,960	4,927,862
Ohio	5,061,866	4,974,517	636,271	633,343	16,878	20,237	3	2	5,715,018	5,628,099
Wisconsin	2,772,089	2,717,895	364,043	356,447	NM	5,640	2	2	3,141,097	3,079,984
West North Central	9,774,137	9,589,914	1,490,804	1,466,742	117,200	131,756	3	3	11,382,144	11,188,415
Iowa	1,425,340	1,390,432	249,436	241,805	NM	8,796	0	0	1,681,658	1,641,033
Kansas	1,309,768	1,279,643	238,058	235,443	25,468	24,872	0	0	1,573,294	1,539,958
Minnesota	2,471,637	2,459,917	296,979	300,984	NM	9,289	1	1	2,777,181	2,770,191
Missouri	2,887,456	2,814,486	390,534	385,686	6,436	10,104	2	2	3,284,428	3,210,278
Nebraska	881,084	854,778	164,166	153,808	57,645	65,700	0	0	1,102,895	1,074,286
North Dakota	385,668	386,421	75,365	75,533	9,036	8,800	0	0	470,069	470,754
South Dakota	413,184	404,237	76,266	73,483	NM	4,195	0	0	492,619	481,915
South Atlantic	28,920,029	28,451,802	3,870,755	3,848,342	79,029	87,003	13	13	32,869,826	32,387,160
Delaware	443,974	440,039	56,231	56,054	504	868	0	0	500,709	496,961
District of Columbia	291,631	282,656	26,709	26,458	1	1	3	3	318,344	309,118
Florida	9,697,183	9,655,994	1,259,783	1,251,011	20,655	23,973	2	2	10,977,623	10,930,980
Georgia	4,551,324	4,422,150	593,793	586,253	19,861	24,239	1	1	5,164,979	5,032,643
Maryland	2,384,749	2,354,066	256,961	255,995	8,848	8,926	5	5	2,650,563	2,618,992
North Carolina	4,755,021	4,633,660	715,040	706,350	9,772	9,937	1	1	5,479,834	5,349,948
South Carolina	2,399,570	2,338,504	377,976	386,623	4,239	3,728	0	0	2,781,785	2,728,855
Virginia	3,533,183	3,470,196	436,792	434,503	3,822	3,764	1	1	3,973,798	3,908,464
West Virginia	863,394	854,537	147,470	145,095	11,327	11,567	0	0	1,022,191	1,011,199
East South Central	8,785,557	8,472,286	1,433,398	1,418,926	21,540	25,066	0	0	10,240,495	9,916,278
Alabama	2,322,835	2,255,057	374,142	370,037	8,211	7,291	0	0	2,705,188	2,632,385
Kentucky	2,054,498	1,993,944	311,623	310,774	5,302	6,153	0	0	2,371,423	2,310,871
Mississippi	1,348,933	1,296,615	235,218	238,065	7,145	10,604	0	0	1,591,296	1,545,284
Tennessee	3,059,291	2,926,670	512,415	500,050	882	1,018	0	0	3,572,588	3,427,738
West South Central	16,803,127	16,690,196	2,239,426	2,317,884	353,096	319,259	6	6	19,395,655	19,327,345
Arkansas	1,433,974	1,394,337	195,482	198,500	40,869	40,529	2	2	1,670,327	1,633,368
Louisiana	2,149,965	2,099,949	297,202	296,159	18,601	19,547	1	1	2,465,769	2,415,656
Oklahoma	1,833,084	1,780,423	291,029	286,384	19,057	20,487	0	0	2,143,170	2,087,294
Texas	11,386,104	11,415,487	1,455,713	1,536,841	274,569	238,696	3	3	13,116,389	13,191,027
Mountain	10,156,632	10,002,786	1,430,158	1,435,435	92,918	100,564	5	5	11,679,713	11,538,790
Arizona	2,893,323	2,848,912	331,083	328,509	NM	8,003	2	2	3,230,339	3,185,426
Colorado	2,404,383	2,373,710	373,631	381,444	NM	14,796	1	1	2,793,009	2,769,951
Idaho	782,588	765,894	114,785	112,400	29,229	28,729	0	0	926,602	907,023
Montana	527,398	515,752	113,972	109,648	NM	13,650	0	0	651,489	639,050
Nevada	1,228,532	1,208,318	168,928	168,564	NM	3,440	1	1	1,400,983	1,380,323
New Mexico	921,572	896,559	140,651	144,648	NM	9,594	0	0	1,070,641	1,050,801
Utah	1,119,277	1,118,816	127,791	131,726	10,767	10,917	1	1	1,257,836	1,261,460
Wyoming	279,559	274,825	59,317	58,496	9,938	11,435	0	0	348,814	344,756
Pacific Contiguous	18,618,596	18,684,986	2,329,530	2,350,698	201,739	203,727	19	19	21,149,884	21,239,430
California	13,658,379	13,813,298	1,681,322	1,723,282	145,287	150,612	12	12	15,485,000	15,687,204
Oregon	1,808,607	1,764,317	244,208	240,470	27,095	25,699	2	2	2,079,912	2,030,488
Washington	3,151,610	3,107,371	404,000	386,946	29,357	27,416	5	5	3,584,972	3,521,738
Pacific Noncontiguous	734,762	728,511	115,026	115,187	NM	1,969	0	0	852,040	845,667
Alaska	293,994	289,971	55,335	55,222	NM	NM	0	0	350,767	346,336
Hawaii	440,768	438,540	59,691	59,965	814	826	0	0	501,273	499,331
U.S. Total	137,220,273	135,635,335	18,749,015	18,728,398	966,934	983,435	82	82	156,936,304	155,347,250

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 for 2019 are final. Values for 2020 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), July 2020 to August 2020

		As of End of July 2020	Activity During August 2020 as Reported to EIA		As of End of August 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*	*107,864.1*	*540.8*	*0.0*	*108,404.9*	*540.8*	*4,863.0*	*9,691.1*	*3,951.8*	*20,381.4*	*0.0*	*0.0*	*3,951.8*	*20,381.4*	*112,356.7*	*128,786.3*
..... *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	107,893.4	540.8	0.0	108,434.2	540.8	4,863.0	9,691.1	3,951.8	20,393.4	0.0	0.0	3,951.8	20,393.4	112,386.0	128,827.6
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*40,109.6*	*600.2*	*0.0*	*40,709.8*	*600.2*	*4,999.6*	*8,407.3*	*696.0*	*13,042.1*	*0.0*	*0.0*	*696.0*	*13,042.1*	*41,405.8*	*53,751.9*
..... *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*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.6*	*405.6*
..... Solar Subtotal	Utility Scale Facilities	41,867.7	600.2	0.0	42,467.9	600.2	4,999.6	8,407.3	696.0	13,042.1	0.0	0.0	696.0	13,042.1	43,163.9	55,510.0
..... Conventional Hydroelectric	Utility Scale Facilities	79,810.3	0.0	0.0	79,810.3	0.0	37.2	34.3	127.9	242.9	0.0	5.5	127.9	237.4	79,938.2	80,047.7
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,383.0*	*0.0*	*0.0*	*8,383.0*	*0.0*	*8.5*	*-115.4*	*0.0*	*0.0*	*0.0*	*20.0*	*0.0*	*-20.0*	*8,383.0*	*8,363.0*
..... *Landfill Gas*	*Utility Scale Facilities*	*1,914.7*	*1.6*	*0.0*	*1,916.3*	*1.6*	*-76.0*	*-103.9*	*0.0*	*3.4*	*0.0*	*0.0*	*0.0*	*3.4*	*1,916.3*	*1,919.7*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,120.7*	*0.0*	*0.0*	*2,120.7*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,120.7*	*2,120.7*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*623.8*	*0.0*	*0.0*	*623.8*	*0.0*	*-2.0*	*-3.0*	*16.2*	*52.8*	*0.0*	*0.0*	*16.2*	*52.8*	*640.0*	*676.6*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,042.2	1.6	0.0	13,043.8	1.6	-69.5	-222.3	16.2	56.2	0.0	20.0	16.2	36.2	13,060.0	13,080.0
..... Geothermal	Utility Scale Facilities	2,555.4	0.0	0.0	2,555.4	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	2,555.4	2,555.4
... Renewable Sources Subtotal	***Utility Scale Facilities***	***245,169.0***	***1,142.6***	***0.0***	***246,311.6***	***1,142.6***	***9,830.3***	***17,930.4***	***4,791.9***	***33,734.6***	***0.0***	***25.5***	***4,791.9***	***33,709.1***	***251,103.5***	***280,020.7***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*275,934.1*	*42.3*	*0.0*	*275,976.4*	*42.3*	*4,790.4*	*6,318.4*	*9.0*	*3,531.4*	*9.0*	*65.0*	*0.0*	*3,466.4*	*275,976.4*	*279,442.8*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*129,213.8*	*1.0*	*0.0*	*129,214.8*	*1.0*	*103.7*	*-103.6*	*0.0*	*1,724.4*	*0.0*	*43.0*	*0.0*	*1,681.4*	*129,214.8*	*130,896.2*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*70,735.8*	*0.0*	*0.0*	*70,735.8*	*0.0*	*-173.6*	*-2,118.1*	*0.0*	*18.2*	*0.0*	*296.1*	*0.0*	*-277.9*	*70,735.8*	*70,457.9*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*5,150.2*	*0.0*	*0.0*	*5,150.2*	*0.0*	*127.6*	*247.0*	*5.4*	*90.6*	*0.0*	*20.0*	*5.4*	*70.6*	*5,155.6*	*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*	*233.3*	*0.0*	*0.0*	*233.3*	*0.0*	*5.0*	*16.5*	*0.2*	*37.4*	*0.0*	*0.0*	*0.2*	*37.4*	*233.5*	*270.7*
..... Natural Gas Subtotal	Utility Scale Facilities	481,377.2	43.3	0.0	481,420.5	43.3	4,853.1	4,360.2	14.6	5,402.0	9.0	424.1	5.6	4,977.9	481,426.1	486,398.4
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*222,803.6*	*0.0*	*519.0*	*222,284.6*	*-519.0*	*-5,616.8*	*-11,744.4*	*0.0*	*39.0*	*650.0*	*5,474.4*	*-650.0*	*-5,435.4*	*221,634.6*	*216,849.2*
..... *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	223,559.6	0.0	519.0	223,040.6	-519.0	-5,616.8	-11,744.4	0.0	39.0	650.0	5,474.4	-650.0	-5,435.4	222,390.6	217,605.2
..... Petroleum Coke	Utility Scale Facilities	1,384.9	0.0	0.0	1,384.9	0.0	0.0	-67.0	0.0	0.0	0.0	0.0	0.0	0.0	1,384.9	1,384.9
..... Petroleum Liquids	Utility Scale Facilities	29,766.9	0.0	0.0	29,766.9	0.0	-249.5	-332.6	0.6	5.4	0.0	832.7	0.6	-827.3	29,767.5	28,939.6
..... Other Gases	Utility Scale Facilities	2,507.2	0.0	0.0	2,507.2	0.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	2,507.2	2,507.2
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***738,595.8***	***43.3***	***519.0***	***738,120.1***	***-475.7***	***-1,005.2***	***-7,775.8***	***15.2***	***5,446.4***	***659.0***	***6,731.2***	***-643.8***	***-1,284.8***	***737,476.3***	***736,835.3***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,795.3	0.0	0.0	22,795.3	0.0	17.0	17.0	84.3	280.3	0.0	0.0	84.3	280.3	22,879.6	23,075.6
..... 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	1,317.2	31.7	0.0	1,348.9	31.7	334.1	358.1	26.0	2,280.4	0.0	0.0	26.0	2,280.4	1,374.9	3,629.3
... Energy Storage Subtotal	***Utility Scale Facilities***	***24,159.5***	***31.7***	***0.0***	***24,191.2***	***31.7***	***351.1***	***375.1***	***110.3***	***2,560.7***	***0.0***	***0.0***	***110.3***	***2,560.7***	***24,301.5***	***26,751.9***
... Nuclear	***Utility Scale Facilities***	***97,120.9***	***0.0***	***0.0***	***97,120.9***	***0.0***	***-998.1***	***-1,800.9***	***0.0***	***20.0***	***0.0***	***1,639.3***	***0.0***	***-1,619.3***	***97,120.9***	***95,501.6***
... All Other	***Utility Scale Facilities***	***1,544.6***	***0.0***	***0.0***	***1,544.6***	***0.0***	***0.0***	***-27.9***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***1,544.6***	***1,544.6***
TOTAL	**UTILITY SCALE FACILITIES**	**1,106,589.8**	**1,217.6**	**519.0**	**1,107,288.4**	**698.6**	**8,178.1**	**8,700.9**	**4,917.4**	**41,761.7**	**659.0**	**8,396.0**	**4,258.4**	**33,365.7**	**1,111,546.8**	**1,140,654.1**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*25,779.5*			*26,197.4*	*417.9*	*2,983.8*	*4,472.8*								
..... Estimated Total Solar Photovoltaic	All Facilities	65,889.1			66,907.2	1,018.1	7,983.4	12,880.1								
... Estimated Total Solar	***All Facilities***	***67,647.2***			***68,665.3***	***1,018.1***	***7,983.4***	***12,880.1***								

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 - August 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	35,710.2	23,213.6	58,923.8
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	30,911.4	19,697.8	50,609.2
February	31,124.1	19,941.5	51,065.6
March	31,355.0	20,254.3	51,609.3
April	31,466.6	20,506.0	51,972.6
May	31,528.4	20,811.4	52,339.8
June	31,811.5	21,073.0	52,884.5
July	32,079.3	21,407.6	53,486.9
August	32,302.5	21,724.6	54,027.1
Sept	32,556.1	22,031.1	54,587.2
October	33,001.5	22,357.7	55,359.2
November	33,658.4	22,666.6	56,325.0
December	35,710.2	23,213.6	58,923.8
Year 2020			
January	36,830.4	23,753.1	60,583.5
February	37,240.7	24,062.1	61,302.8
March	37,459.8	24,434.1	61,893.9
April	38,107.8	24,748.9	62,856.7
May	38,471.7	24,977.9	63,449.6
June	39,695.7	25,369.6	65,065.3
July	40,109.6	25,779.5	65,889.1
August	40,709.8	26,197.4	66,907.2

Values for 2019 are final. Values for 2020 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 - August 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	14,249.0	7,167.9	1,796.6	23,213.6
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	11,909.0	6,209.1	1,579.7	19,697.8
February	12,080.2	6,270.5	1,590.9	19,941.5
March	12,281.3	6,361.9	1,611.1	20,254.3
April	12,460.8	6,406.0	1,639.3	20,506.0
May	12,656.9	6,487.7	1,666.7	20,811.4
June	12,847.0	6,538.0	1,688.0	21,073.0
July	13,095.9	6,614.7	1,697.0	21,407.6
August	13,314.5	6,697.1	1,713.0	21,724.6
Sept	13,534.1	6,761.3	1,735.6	22,031.1
October	13,769.0	6,838.6	1,750.0	22,357.7
November	13,993.3	6,908.0	1,765.4	22,666.6
December	14,249.0	7,167.9	1,796.6	23,213.6
Year 2020				
January	14,622.8	7,303.3	1,827.0	23,753.1
February	14,842.6	7,365.6	1,853.9	24,062.1
March	15,072.4	7,486.3	1,875.4	24,434.1
April	15,290.7	7,579.2	1,878.9	24,748.9
May	15,489.1	7,589.7	1,899.1	24,977.9
June	15,699.8	7,730.3	1,939.5	25,369.6
July	15,967.4	7,844.0	1,968.1	25,779.5
August	16,192.1	8,020.2	1,985.1	26,197.4

Values for 2019 are final. Values for 2020 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, August 2020 and 2019 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	6,075.4	5,916.0	24,215.7	24,227.5	1,797.4	1,797.4	81.5	50.3	3,323.5	3,323.5	48.0	48.0	35,541.5	35,362.7
Connecticut	462.7	415.3	7,871.2	7,866.2	29.4	29.4	1.6	1.6	2,073.1	2,073.1	26.0	26.0	10,464.0	10,411.6
Maine	2,230.5	2,291.0	2,499.3	2,497.3	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,768.0	4,826.5
Massachusetts	1,540.5	1,460.1	9,574.6	9,596.4	1,768.0	1,768.0	52.8	29.5	0.0	0.0	0.0	0.0	12,935.9	12,854.0
New Hampshire	956.9	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	4,497.2	4,468.4
Rhode Island	200.1	153.5	1,835.1	1,832.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,035.2	1,985.6
Vermont	684.7	668.0	145.6	145.6	0.0	0.0	10.9	3.0	0.0	0.0	0.0	0.0	841.2	816.6
Middle Atlantic	11,622.0	11,324.5	74,343.2	73,300.1	3,383.3	3,383.3	147.5	143.5	16,940.5	18,759.4	11.2	11.2	106,447.7	106,922.0
New Jersey	1,149.2	1,065.7	12,241.5	12,241.5	420.0	420.0	42.1	42.1	3,467.1	3,467.1	11.2	11.2	17,331.1	17,247.6
New York	7,547.9	7,402.5	27,064.1	27,036.0	1,411.3	1,411.3	57.0	53.0	4,380.2	5,396.3	0.0	0.0	40,460.5	41,299.1
Pennsylvania	2,924.9	2,856.3	35,037.6	34,022.6	1,552.0	1,552.0	48.4	48.4	9,093.2	9,896.0	0.0	0.0	48,656.1	48,375.3
East North Central	14,245.7	12,779.2	108,097.6	111,284.7	2,249.0	2,232.0	194.7	189.7	19,007.1	19,007.1	187.1	187.1	143,981.2	145,679.8
Illinois	5,973.3	4,994.4	27,059.7	29,064.4	0.0	0.0	132.7	132.7	11,582.4	11,582.4	78.0	78.0	44,826.1	45,851.9
Indiana	2,699.1	2,669.1	23,832.4	23,922.6	0.0	0.0	28.0	23.0	0.0	0.0	88.0	88.0	26,647.5	26,702.7
Michigan	3,237.7	2,939.4	19,996.6	20,085.8	2,249.0	2,232.0	1.0	1.0	4,089.6	4,089.6	0.0	0.0	29,573.9	29,347.8
Ohio	1,204.7	1,064.6	23,704.6	25,250.2	0.0	0.0	33.0	33.0	2,134.0	2,134.0	0.0	0.0	27,076.3	28,481.8
Wisconsin	1,130.9	1,111.7	13,504.3	12,961.7	0.0	0.0	0.0	0.0	1,201.1	1,201.1	21.1	21.1	15,857.4	15,295.6
West North Central	34,824.2	30,562.3	59,010.0	59,378.3	657.0	657.0	20.1	20.1	5,443.4	5,443.4	22.8	22.8	99,977.5	96,083.9
Iowa	10,729.4	9,021.6	9,847.6	9,843.6	0.0	0.0	1.1	1.1	601.4	601.4	0.0	0.0	21,179.5	19,467.7
Kansas	6,575.5	6,159.6	8,846.1	9,003.1	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,647.4	16,388.5
Minnesota	5,570.2	5,246.6	10,363.9	10,370.0	0.0	0.0	16.0	16.0	1,657.0	1,657.0	16.7	16.7	17,623.8	17,306.3
Missouri	1,821.0	1,579.0	17,453.6	17,659.0	657.0	657.0	2.2	2.2	1,190.0	1,190.0	0.0	0.0	21,123.8	21,087.2
Nebraska	2,729.5	2,331.7	6,196.3	6,196.3	0.0	0.0	0.0	0.0	770.0	770.0	0.0	0.0	9,695.8	9,298.0
North Dakota	4,198.3	3,741.6	4,601.4	4,601.4	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,805.0	8,348.3
South Dakota	3,200.3	2,482.2	1,701.1	1,704.9	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	4,902.2	4,187.9
South Atlantic	24,408.7	20,853.6	160,317.8	161,152.9	7,906.4	7,906.4	90.3	76.5	24,706.6	24,688.6	468.9	496.8	217,898.7	215,174.8
Delaware	50.9	47.9	3,321.5	3,321.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,372.4	3,369.4
District of Columbia	21.3	18.9	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	39.5
Florida	4,637.3	3,203.5	53,486.2	53,174.8	0.0	0.0	19.0	14.0	3,626.0	3,626.0	312.9	340.8	62,081.4	60,359.1
Georgia	4,825.1	4,015.8	26,100.8	26,100.8	1,863.4	1,863.4	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,851.3	36,042.0
Maryland	1,254.8	1,229.4	10,781.2	11,670.7	0.0	0.0	7.0	7.0	1,707.8	1,707.8	6.0	6.0	13,756.8	14,620.9
North Carolina	7,401.3	6,876.0	22,192.8	22,022.6	86.0	86.0	9.8	1.0	5,149.6	5,149.6	54.0	54.0	34,893.5	34,189.2
South Carolina	2,829.8	2,347.2	11,764.1	12,141.3	2,716.0	2,716.0	4.0	4.0	6,594.2	6,576.2	0.0	0.0	23,908.1	23,784.7
Virginia	2,301.7	2,084.6	18,912.7	18,912.7	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	96.0	96.0	28,119.4	27,902.3
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	8,911.2	8,933.6	61,431.4	62,732.2	1,616.3	1,616.3	1.0	1.0	11,449.1	11,449.1	1.4	1.4	83,410.4	84,733.6
Alabama	4,119.0	4,204.3	19,635.1	19,610.1	0.0	0.0	1.0	1.0	5,525.4	5,525.4	0.0	0.0	29,280.5	29,340.8
Kentucky	1,247.6	1,246.2	16,877.1	18,261.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,124.7	19,508.1
Mississippi	520.5	463.0	12,676.9	12,617.9	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,599.8	14,483.3
Tennessee	3,024.1	3,020.1	12,242.3	12,242.3	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,405.4	21,401.4
West South Central	45,858.1	40,647.3	140,157.2	139,225.5	286.0	286.0	161.5	131.7	8,910.7	8,910.7	548.6	548.6	195,922.1	189,749.8
Arkansas	1,642.7	1,707.1	11,281.0	11,281.0	28.0	28.0	12.0	12.0	1,817.8	1,817.8	0.0	0.0	14,781.5	14,845.9
Louisiana	615.2	615.2	22,487.2	21,262.2	0.0	0.0	0.5	0.5	2,132.9	2,132.9	329.6	329.6	25,565.4	24,340.4
Oklahoma	9,151.0	9,039.0	17,978.6	17,978.6	258.0	258.0	10.0	0.0	0.0	0.0	0.0	0.0	27,397.6	27,275.6
Texas	34,449.2	29,286.0	88,410.4	88,703.7	0.0	0.0	139.0	119.2	4,960.0	4,960.0	219.0	219.0	128,177.6	123,287.9
Mountain	29,455.4	27,754.5	59,544.1	62,561.6	778.8	778.8	54.3	56.1	3,937.0	3,937.0	123.7	123.7	93,893.3	95,211.7
Arizona	5,339.8	5,147.3	17,505.7	19,735.7	216.3	216.3	42.0	42.0	3,937.0	3,937.0	0.0	0.0	27,040.8	29,078.3
Colorado	5,631.1	4,968.5	10,932.9	11,032.9	562.5	562.5	10.5	10.5	0.0	0.0	9.1	9.1	17,146.1	16,583.5
Idaho	4,075.3	4,079.8	1,121.8	1,121.8	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,211.9	5,216.4
Montana	3,673.9	3,592.5	2,125.1	2,739.1	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	5,839.0	6,371.6
Nevada	4,109.7	3,776.2	7,821.6	7,821.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,937.8	11,604.3
New Mexico	2,866.6	2,714.8	5,964.4	5,962.9	0.0	0.0	1.8	3.6	0.0	0.0	0.7	0.7	8,833.5	8,682.0
Utah	1,648.0	1,590.4	7,303.3	7,378.3	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,991.5	9,008.9
Wyoming	2,111.0	1,885.0	6,769.3	6,769.3	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	8,892.7	8,666.7
Pacific Contiguous	69,667.6	68,512.6	46,640.2	47,687.6	4,121.1	4,121.1	536.8	260.7	3,403.0	3,403.0	106.3	106.3	124,475.0	124,091.3
California	32,347.8	31,618.0	37,583.2	38,630.8	3,807.1	3,807.1	525.6	249.5	2,240.0	2,240.0	106.3	106.3	76,610.0	76,651.7
Oregon	12,596.6	12,192.5	4,315.2	4,315.2	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,916.8	16,512.7
Washington	24,723.2	24,702.1	4,741.8	4,741.6	314.0	314.0	6.2	6.2	1,163.0	1,163.0	0.0	0.0	30,948.2	30,926.9
Pacific Noncontiguous	1,243.3	1,097.6	4,362.9	4,345.5	0.0	0.0	108.2	108.2	0.0	0.0	26.6	26.6	5,741.0	5,577.9
Alaska	538.6	538.6	2,191.6	2,174.2	0.0	0.0	47.2	47.2	0.0	0.0	0.0	0.0	2,777.4	2,760.0
Hawaii	704.7	559.0	2,171.3	2,171.3	0.0	0.0	61.0	61.0	0.0	0.0	26.6	26.6	2,963.6	2,817.9
U.S. Total	246,311.6	228,381.2	738,120.1	745,895.9	22,795.3	22,778.3	1,395.9	1,037.8	97,120.9	98,921.8	1,544.6	1,572.5	1,107,288.4	1,098,587.5

NM = Not meaningful due to large relative standard error.
Values for 2019 are final. Values for 2020 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, August 2020 and 2019 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	1,463.2	1,424.8	1,237.6	1,055.4	0.0	0.0	1,957.6	1,958.3	1,417.0	1,477.5	0.0	0.0	6,075.4	5,916.0	2,979.0	2,394.3	4,216.6	3,449.7	4,216.6	3,449.7
Connecticut	1.0	1.0	142.4	95.0	0.0	0.0	119.4	119.4	199.9	199.9	0.0	0.0	462.7	415.3	575.6	470.6	718.0	565.6	718.0	565.6
Maine	921.6	921.6	5.6	5.6	0.0	0.0	734.0	734.0	569.3	629.8	0.0	0.0	2,230.5	2,291.0	61.8	54.6	67.4	60.2	67.4	60.2
Massachusetts	105.7	96.1	883.6	812.1	0.0	0.0	266.3	267.0	284.9	284.9	0.0	0.0	1,540.5	1,460.1	1,894.5	1,530.5	2,778.1	2,342.6	2,778.1	2,342.6
New Hampshire	211.9	183.1	0.0	0.0	0.0	0.0	504.0	504.0	241.0	241.0	0.0	0.0	956.9	928.1	111.8	93.4	111.8	93.4	111.8	93.4
Rhode Island	72.8	72.8	84.5	37.9	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	200.1	153.5	202.4	131.3	286.9	169.2	286.9	169.2
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	132.8	114.0	254.3	218.8	254.3	218.8
Middle Atlantic	3,453.3	3,363.3	1,589.6	1,276.1	0.0	0.0	5,471.6	5,470.4	1,107.5	1,214.7	0.0	0.0	11,622.0	11,324.5	3,919.6	3,308.8	5,509.2	4,584.9	5,509.2	4,584.9
New Jersey	7.6	7.6	935.5	830.3	0.0	0.0	12.3	12.3	193.8	215.5	0.0	0.0	1,149.2	1,065.7	1,802.9	1,561.7	2,738.4	2,392.0	2,738.4	2,392.0
New York	1,985.7	1,985.7	543.2	378.4	0.0	0.0	4,559.7	4,558.5	459.3	479.9	0.0	0.0	7,547.9	7,402.5	1,689.3	1,387.7	2,232.5	1,766.1	2,232.5	1,766.1
Pennsylvania	1,460.0	1,370.0	110.9	67.4	0.0	0.0	899.6	899.6	454.4	519.3	0.0	0.0	2,924.9	2,856.3	427.5	359.4	538.4	426.8	538.4	426.8
East North Central	11,634.3	10,241.2	564.3	487.8	0.0	0.0	884.6	884.6	1,162.5	1,165.6	0.0	0.0	14,245.7	12,779.2	846.8	536.6	1,411.1	1,024.4	1,411.1	1,024.4
Illinois	5,798.0	4,831.5	53.0	40.6	0.0	0.0	34.1	34.1	88.2	88.2	0.0	0.0	5,973.3	4,994.4	343.1	144.5	396.1	185.1	396.1	185.1
Indiana	2,309.8	2,309.8	252.3	222.3	0.0	0.0	66.2	66.2	70.8	70.8	0.0	0.0	2,699.1	2,669.1	115.0	85.9	367.3	308.2	367.3	308.2
Michigan	2,354.3	2,061.8	102.0	100.2	0.0	0.0	273.4	273.4	508.0	504.0	0.0	0.0	3,237.7	2,939.4	114.1	84.5	216.1	184.7	216.1	184.7
Ohio	852.5	718.4	111.6	100.8	0.0	0.0	101.9	101.9	138.7	143.5	0.0	0.0	1,204.7	1,064.6	178.5	148.0	290.1	248.8	290.1	248.8
Wisconsin	319.7	319.7	45.4	23.9	0.0	0.0	409.0	409.0	356.8	359.1	0.0	0.0	1,130.9	1,111.7	96.2	73.7	141.6	97.6	141.6	97.6
West North Central	30,009.4	25,899.0	1,098.3	946.8	0.0	0.0	3,295.5	3,295.5	421.0	421.0	0.0	0.0	34,824.2	30,562.3	505.3	408.6	1,603.6	1,355.4	1,603.6	1,355.4
Iowa	10,546.4	8,844.2	16.0	10.4	0.0	0.0	146.4	146.4	20.6	20.6	0.0	0.0	10,729.4	9,021.6	143.4	107.6	159.4	118.0	159.4	118.0
Kansas	6,529.3	6,133.4	30.2	10.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	6,575.5	6,159.6	30.1	23.4	60.3	33.6	60.3	33.6
Minnesota	4,052.2	3,849.2	965.7	845.1	0.0	0.0	205.9	205.9	346.4	346.4	0.0	0.0	5,570.2	5,246.6	91.2	73.1	1,056.9	918.2	1,056.9	918.2
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	226.2	194.1	288.3	256.2	288.3	256.2
Nebraska	2,410.8	2,018.3	23.3	18.0	0.0	0.0	279.7	279.7	15.7	15.7	0.0	0.0	2,729.5	2,331.7	12.7	9.1	36.0	27.1	36.0	27.1
North Dakota	3,678.5	3,221.8	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	4,198.3	3,741.6	0.6	0.5	0.6	0.5	0.6	0.5
South Dakota	1,595.9	877.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	5.4	5.4	0.0	0.0	3,200.3	2,482.2	1.0	0.8	2.0	1.8	2.0	1.8
South Atlantic	1,142.5	1,086.3	11,741.4	8,362.2	0.0	0.0	7,189.2	7,187.2	4,335.6	4,217.9	0.0	0.0	24,408.7	20,853.6	2,473.8	1,974.7	14,215.2	10,336.9	14,215.2	10,336.9
Delaware	2.0	2.0	36.7	33.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	50.9	47.9	89.7	83.4	126.4	117.1	126.4	117.1
District of Columbia	0.0	0.0	9.3	6.9	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	21.3	18.9	74.6	60.6	83.9	67.5	83.9	67.5
Florida	0.0	0.0	3,409.7	1,975.9	0.0	0.0	43.5	43.5	1,184.1	1,184.1	0.0	0.0	4,637.3	3,203.5	670.0	412.4	4,079.7	2,388.3	4,079.7	2,388.3
Georgia	0.0	0.0	1,734.3	1,041.0	0.0	0.0	2,031.0	2,031.0	1,059.8	943.8	0.0	0.0	4,825.1	4,015.8	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	333.9	308.5	0.0	0.0	590.0	590.0	140.9	140.9	0.0	0.0	1,254.8	1,229.4	815.7	755.6	1,149.6	1,064.1	1,149.6	1,064.1
North Carolina	208.0	208.0	4,623.3	4,101.7	0.0	0.0	2,006.0	2,004.0	564.0	562.3	0.0	0.0	7,401.3	6,876.0	225.5	168.2	4,848.8	4,269.9	4,848.8	4,269.9
South Carolina	0.0	0.0	963.4	480.8	0.0	0.0	1,311.9	1,311.9	554.5	554.5	0.0	0.0	2,829.8	2,347.2	255.5	222.3	1,218.9	703.1	1,218.9	703.1
Virginia	0.0	0.0	630.8	413.7	0.0	0.0	866.0	866.0	804.9	804.9	0.0	0.0	2,301.7	2,084.6	139.1	83.9	769.9	497.6	769.9	497.6
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	10.2	8.3	10.2	8.3	10.2	8.3
East South Central	29.1	29.1	620.5	559.0	0.0	0.0	7,055.3	7,055.3	1,206.3	1,290.2	0.0	0.0	8,911.2	8,933.6	112.7	100.9	733.2	659.9	733.2	659.9
Alabama	0.0	0.0	194.1	194.1	0.0	0.0	3,291.8	3,291.8	633.1	718.4	0.0	0.0	4,119.0	4,204.3	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	73.2	0.0	0.0	1,247.6	1,246.2	33.1	25.7	59.2	51.8	59.2	51.8
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	9.8	8.3	227.9	168.9	227.9	168.9
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	60.8	58.4	243.0	236.6	243.0	236.6
West South Central	37,255.7	34,301.2	4,408.5	2,122.0	0.0	0.0	3,029.5	2,991.4	1,164.4	1,232.7	0.0	0.0	45,858.1	40,647.3	1,195.2	777.0	5,603.7	2,899.0	5,603.7	2,899.0
Arkansas	0.0	0.0	112.2	110.0	0.0	0.0	1,265.8	1,265.8	264.7	331.3	0.0	0.0	1,642.7	1,707.1	54.3	21.9	166.5	131.9	166.5	131.9
Louisiana	0.0	0.0	1.1	1.1	0.0	0.0	192.0	192.0	422.1	422.1	0.0	0.0	615.2	615.2	153.5	143.1	154.6	144.2	154.6	144.2
Oklahoma	8,168.7	8,068.7	40.5	30.5	0.0	0.0	865.6	863.6	76.2	76.2	0.0	0.0	9,151.0	9,039.0	18.2	11.3	58.7	41.8	58.7	41.8
Texas	29,087.0	26,232.5	4,254.7	1,980.4	0.0	0.0	706.1	670.0	401.4	403.1	0.0	0.0	34,449.2	29,286.0	969.3	600.8	5,224.0	2,581.2	5,224.0	2,581.2
Mountain	10,640.9	9,787.5	6,851.8	6,021.2	474.1	474.1	10,652.8	10,651.4	179.1	183.6	656.7	636.7	29,455.4	27,754.5	3,060.7	2,587.6	9,912.5	8,608.8	10,386.6	9,082.9
Arizona	267.3	267.3	2,025.3	1,832.8	295.6	295.6	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,339.8	5,147.3	1,571.8	1,361.6	3,597.1	3,194.4	3,892.7	3,490.0
Colorado	4,245.9	3,698.5	672.4	557.2	0.0	0.0	684.1	684.1	28.7	28.7	0.0	0.0	5,631.1	4,968.5	426.9	376.1	1,099.3	933.3	1,099.3	933.3
Idaho	970.4	970.4	242.0	242.0	0.0	0.0	2,764.2	2,764.2	88.7	93.2	10.0	10.0	4,075.3	4,079.8	53.7	37.1	295.7	279.1	295.7	279.1
Montana	871.3	791.3	17.0	17.0	0.0	0.0	2,782.6	2,781.2	3.0	3.0	0.0	0.0	3,673.9	3,592.5	23.8	16.2	40.8	33.2	40.8	33.2
Nevada	150.0	150.0	2,152.6	1,839.1	178.5	178.5	1,051.4	1,051.4	9.8	9.8	567.4	547.4	4,109.7	3,776.2	479.9	375.2	2,632.5	2,214.3	2,811.0	2,392.8
New Mexico	2,035.9	2,035.9	733.8	582.0	0.0	0.0	82.9	82.9	5.4	5.4	8.6	8.6	2,866.6	2,714.8	188.5	156.6	922.3	738.6	922.3	738.6
Utah	388.2	388.2	916.7	859.1	0.0	0.0	259.6	259.6	12.8	12.8	70.7	70.7	1,648.0	1,590.4	308.2	259.1	1,224.9	1,118.2	1,224.9	1,118.2
Wyoming	1,711.9	1,485.9	92.0	92.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	2,111.0	1,885.0	8.0	5.6	100.0	97.6	100.0	97.6
Pacific Contiguous	12,539.2	12,344.1	12,328.0	11,347.9	1,284.0	1,284.0	39,771.2	39,778.9	1,889.5	1,902.0	1,855.7	1,855.7	69,667.6	68,512.6	10,390.2	8,978.1	22,718.2	20,326.0	24,002.2	21,610.0
California	6,027.4	6,055.7	11,778.5	11,007.9	1,284.0	1,284.0	10,231.6	10,231.6	1,190.1	1,202.6	1,836.2	1,836.2	32,347.8	31,618.0	10,012.0	8,659.4	21,790.5	19,667.3	23,074.5	20,951.3
Oregon	3,415.3	3,215.3	529.8	320.3	0.0	0.0	8,317.0	8,322.4	315.0	315.0	19.5	19.5	12,596.6	12,192.5	187.1	161.4	716.9	481.7	716.9	481.7
Washington	3,096.5	3,073.1	19.7	19.7	0.0	0.0	21,222.6	21,224.9	384.4	384.4	0.0	0.0	24,723.2	24,702.1	191.1	157.4	210.8	177.1	210.8	177.1
Pacific Noncontiguous	266.6	266.6	269.8	124.1	0.0	0.0	503.0	503.0	160.9	160.9	43.0	43.0	1,243.3	1,097.6	714.1	657.9	983.9	782.0	983.9	782.0
Alaska	61.0	61.0	0.0	0.0	0.0	0.0	470.6	470.6	7.0	7.0	0.0	0.0	538.6	538.6	6.9	4.4	6.9	4.4	6.9	4.4
Hawaii	205.6	205.6	269.8	124.1	0.0	0.0	32.4	32.4	153.9	153.9	43.0	43.0	704.7	559.0	707.1	653.6	976.9	777.7	976.9	777.7
U.S. Total	108,434.2	98,743.1	40,709.8	32,302.5	1,758.1	1,758.1	79,810.3	79,776.0	13,043.8	13,266.1	2,555.4	2,535.4	246,311.6	228,381.2	26,197.4	21,724.6	66,907.2	54,027.1	68,665.3	55,785.2

NM = Not meaningful due to large relative standard error.
Values for 2019 are final. Values for 2020 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, August 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	
	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019	August 2020	August 2019
New England	14,278.6	14,271.6	1,776.0	1,776.0	1,506.9	1,523.7	917.3	917.3	0.0	0.0	5,736.9	5,738.9	0.0	0.0	24,215.7	24,227.5
Connecticut	3,984.2	3,984.2	580.4	580.4	888.3	883.3	383.4	383.4	0.0	0.0	2,034.9	2,034.9	0.0	0.0	7,871.2	7,866.2
Maine	1,285.6	1,281.6	322.3	322.3	12.5	12.5	0.0	0.0	0.0	0.0	878.9	880.9	0.0	0.0	2,499.3	2,497.3
Massachusetts	5,960.6	5,960.6	857.1	857.1	180.5	202.3	0.0	0.0	0.0	0.0	2,576.4	2,576.4	0.0	0.0	9,574.6	9,596.4
New Hampshire	1,258.0	1,258.0	3.8	3.8	400.2	400.2	533.9	533.9	0.0	0.0	94.0	94.0	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	145.6	0.0	0.0	145.6	145.6
Middle Atlantic	36,466.0	33,319.5	7,894.3	7,894.3	14,143.9	14,124.0	10,346.8	12,392.3	11.6	78.6	5,364.7	5,375.5	115.9	115.9	74,343.2	73,300.1
New Jersey	8,579.0	8,579.0	2,844.3	2,844.3	68.5	68.5	463.0	463.0	11.6	11.6	246.1	246.1	29.0	29.0	12,241.5	12,241.5
New York	9,944.0	8,927.9	3,177.6	3,177.6	9,739.1	9,741.3	652.1	1,627.1	0.0	0.0	3,551.3	3,562.1	0.0	0.0	27,064.1	27,036.0
Pennsylvania	17,943.0	15,812.6	1,872.4	1,872.4	4,336.3	4,314.2	9,231.7	10,302.2	0.0	67.0	1,567.3	1,567.3	86.9	86.9	35,037.6	34,022.6
East North Central	22,411.8	21,672.9	26,489.8	26,781.0	5,620.5	5,620.4	49,919.2	53,490.3	247.6	247.6	2,323.8	2,387.6	1,084.9	1,084.9	108,097.6	111,284.7
Illinois	3,577.7	3,577.7	10,530.4	10,530.4	1,626.7	1,626.7	10,615.5	12,617.5	0.0	0.0	672.9	675.6	36.5	36.5	27,059.7	29,064.4
Indiana	3,866.0	3,866.0	3,256.3	3,352.3	746.8	741.0	15,245.7	15,245.7	0.0	0.0	98.3	98.3	619.3	619.3	23,832.4	23,922.6
Michigan	4,451.9	4,425.0	3,850.1	3,887.9	2,411.4	2,417.1	8,521.2	8,590.3	47.2	47.2	464.8	468.3	250.0	250.0	19,996.6	20,085.8
Ohio	7,037.8	7,025.8	5,636.7	5,636.7	205.5	205.5	9,996.0	11,496.0	142.0	142.0	507.5	565.1	179.1	179.1	23,704.6	25,250.2
Wisconsin	3,478.4	2,778.4	3,216.3	3,373.7	630.1	630.1	5,540.8	5,540.8	58.4	58.4	580.3	580.3	0.0	0.0	13,504.3	12,961.7
West North Central	7,041.6	7,019.1	11,591.5	11,587.5	3,722.6	3,895.0	32,759.1	32,979.1	32.0	32.0	3,854.8	3,857.2	8.4	8.4	59,010.0	59,378.3
Iowa	1,829.0	1,829.0	1,226.8	1,226.8	591.3	591.3	5,343.8	5,343.8	32.0	32.0	824.7	820.7	0.0	0.0	9,847.6	9,843.6
Kansas	266.0	266.0	2,158.1	2,158.1	1,185.6	1,342.6	4,678.5	4,678.5	0.0	0.0	557.9	557.9	0.0	0.0	8,846.1	9,003.1
Minnesota	2,496.0	2,496.0	2,544.8	2,544.8	375.2	381.6	4,180.5	4,180.5	0.0	0.0	767.4	767.1	0.0	0.0	10,363.9	10,370.0
Missouri	1,817.4	1,794.9	3,394.7	3,390.7	869.5	878.5	10,266.5	10,486.5	0.0	0.0	1,105.5	1,108.4	0.0	0.0	17,453.6	17,659.0
Nebraska	338.2	338.2	1,148.4	1,148.4	521.7	521.7	3,867.0	3,867.0	0.0	0.0	321.0	321.0	0.0	0.0	6,196.3	6,196.3
North Dakota	0.0	0.0	414.0	414.0	167.0	167.0	3,948.8	3,948.8	0.0	0.0	63.2	63.2	8.4	8.4	4,601.4	4,601.4
South Dakota	295.0	295.0	704.7	704.7	12.3	12.3	474.0	474.0	0.0	0.0	215.1	218.9	0.0	0.0	1,701.1	1,704.9
South Atlantic	61,768.0	60,976.9	31,904.5	32,241.2	7,268.9	7,261.4	50,438.1	51,483.1	142.8	142.8	8,660.5	8,912.5	135.0	135.0	160,317.8	161,152.9
Delaware	1,504.0	1,504.0	272.0	272.0	842.0	842.0	410.0	410.0	0.0	0.0	158.5	158.5	135.0	135.0	3,321.5	3,321.5
District of Columbia	0.0	0.0	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	20.6
Florida	31,864.2	31,621.3	7,942.7	7,912.7	2,521.7	2,503.2	7,802.0	7,782.0	59.0	59.0	3,296.6	3,296.6	0.0	0.0	53,486.2	53,174.8
Georgia	8,009.5	8,009.5	7,803.2	7,803.2	842.9	842.9	8,416.0	8,416.0	83.8	83.8	945.4	945.4	0.0	0.0	26,100.8	26,100.8
Maryland	2,709.1	2,709.1	1,851.7	2,084.2	1,416.1	1,416.1	3,633.0	4,270.0	0.0	0.0	1,171.3	1,191.3	0.0	0.0	10,781.2	11,670.7
North Carolina	5,628.2	5,080.0	6,050.4	6,050.4	1.0	1.0	10,011.2	10,389.2	0.0	0.0	502.0	502.0	0.0	0.0	22,192.8	22,022.6
South Carolina	3,185.0	3,185.0	2,625.2	2,759.4	950.0	961.0	4,769.0	4,769.0	0.0	0.0	234.9	466.9	0.0	0.0	11,764.1	12,141.3
Virginia	8,868.0	8,868.0	4,245.3	4,245.3	579.7	579.7	2,878.9	2,878.9	0.0	0.0	2,340.8	2,340.8	0.0	0.0	18,912.7	18,912.7
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	21,797.2	21,772.2	12,714.7	12,692.3	4,308.4	4,285.8	22,484.6	23,855.4	0.0	0.0	106.7	106.7	19.8	19.8	61,431.4	62,732.2
Alabama	9,754.8	9,729.8	2,575.8	2,575.8	1,957.8	1,957.8	5,284.3	5,284.3	0.0	0.0	42.6	42.6	19.8	19.8	19,635.1	19,610.1
Kentucky	1,763.0	1,763.0	4,931.2	4,945.2	260.0	260.0	9,911.0	11,281.8	0.0	0.0	11.9	11.9	0.0	0.0	16,877.1	18,261.9
Mississippi	7,824.3	7,824.3	1,375.2	1,338.8	2,024.4	2,001.8	1,444.0	1,444.0	0.0	0.0	9.0	9.0	0.0	0.0	12,676.9	12,617.9
Tennessee	2,455.1	2,455.1	3,832.5	3,832.5	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	12,242.3
West South Central	62,777.6	61,694.7	14,985.7	14,478.7	30,408.5	30,602.7	30,119.1	30,589.1	878.9	878.9	169.1	171.1	818.3	810.3	140,157.2	139,225.5
Arkansas	4,609.8	4,609.8	702.8	702.8	796.0	796.0	5,163.4	5,163.4	0.0	0.0	9.0	9.0	0.0	0.0	11,281.0	11,281.0
Louisiana	9,654.2	8,654.2	2,666.1	2,415.1	6,064.1	6,090.1	2,837.1	2,837.1	815.1	815.1	43.2	43.2	407.4	407.4	22,487.2	21,262.2
Oklahoma	7,321.2	7,321.2	1,630.9	1,630.9	5,706.1	5,706.1	3,246.0	3,246.0	0.0	0.0	74.4	74.4	0.0	0.0	17,978.6	17,978.6
Texas	41,192.4	41,109.5	9,985.9	9,729.9	17,842.3	18,010.5	18,872.6	19,342.6	63.8	63.8	42.5	44.5	410.9	402.9	88,410.4	88,703.7
Mountain	22,546.5	22,545.0	9,137.3	9,137.3	3,629.4	3,609.4	23,725.5	26,764.5	52.0	52.0	349.9	349.9	103.5	103.5	59,544.1	62,561.6
Arizona	9,908.6	9,908.6	2,899.0	2,899.0	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	19,735.7
Colorado	3,249.5	3,249.5	2,538.0	2,538.0	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	11,032.9
Idaho	547.7	547.7	552.0	552.0	8.2	8.2	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,121.8	1,121.8
Montana	0.0	0.0	315.8	315.8	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	2,739.1
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	1,470.2	957.0	957.0	847.7	847.7	2,640.0	2,640.0	0.0	0.0	48.0	48.0	0.0	0.0	5,964.4	5,962.9
Utah	1,830.0	1,830.0	536.3	536.3	328.2	328.2	4,581.0	4,656.0	0.0	0.0	27.8	27.8	0.0	0.0	7,303.3	7,378.3
Wyoming	94.0	94.0	153.6	153.6	10.9	10.9	6,403.0	6,403.0	0.0	0.0	5.8	5.8	102.0	102.0	6,769.3	6,769.3
Pacific Contiguous	26,411.9	25,908.9	12,089.9	12,099.0	5,445.2	6,986.5	1,982.0	1,982.0	20.0	20.0	469.8	469.8	221.4	221.4	46,640.2	47,687.6
California	20,404.3	19,901.3	11,236.7	11,246.0	5,189.2	6,730.5	57.0	57.0	20.0	20.0	454.6	454.6	221.4	221.4	37,583.2	38,630.8
Oregon	3,372.0	3,372.0	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	4,315.2
Washington	2,635.6	2,635.6	719.4	719.2	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	4,741.6
Pacific Noncontiguous	477.2	477.2	631.1	631.1	175.0	175.0	348.9	331.9	0.0	0.0	2,730.7	2,730.3	0.0	0.0	4,362.9	4,345.5
Alaska	477.2	477.2	631.1	631.1	175.0	175.0	168.9	151.9	0.0	0.0	739.4	739.0	0.0	0.0	2,191.6	2,174.2
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,991.3	1,991.3	0.0	0.0	2,171.3	2,171.3
U.S. Total	275,976.4	269,658.0	129,214.8	129,318.4	76,229.3	78,083.9	223,040.6	234,785.0	1,384.9	1,451.9	29,766.9	30,099.5	2,507.2	2,499.2	738,120.1	745,895.9

NM = Not meaningful due to large relative standard error.
Values for 2019 are final. Values for 2020 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	61012	AES Distributed Energy	IPP	RT 52 Walden Solar 1, LLC Hybrid	NY	63000	BESS	4.0	Batteries	MWH	BA
2020	1	63115	AZ Solar 1, LLC	IPP	OE_AZ1	AZ	63349	AZ1	32.5	Solar Photovoltaic	SUN	PV
2020	1	60281	Altus Power America Management, LLC	IPP	FastSun 18 CSG	MN	63034	FS18	1.0	Solar Photovoltaic	SUN	PV
2020	1	60281	Altus Power America Management, LLC	IPP	FastSun 5 CSG	MN	63045	FS5	1.0	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	63466	Conductive Power	IPP	Ben Moreell Solar Farm	NJ	63786	BMSF	20.0	Solar Photovoltaic	SUN	PV
2020	1	56769	Consolidated Edison Development Inc.	IPP	PA Solar Park II	PA	63520	PASP2	10.0	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	Platteville Solar CSG, LLC	CO	63753	218	1.3	Solar Photovoltaic	SUN	PV
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	63402	Oak Leaf Solar XXXIII LLC (Lantz-Chaffey)	IPP	Oak Leaf Solar XXXIII LLC (Lantz)	CO	63681	13	1.5	Solar Photovoltaic	SUN	PV
2020	1	63402	Oak Leaf Solar XXXIII LLC (Lantz-Chaffey)	IPP	Oak Leaf Solar XXXIII LLC (Lantz)	CO	63681	14	1.5	Solar Photovoltaic	SUN	PV
2020	1	63491	Partridgeville Road Solar 1, LLC	IPP	Partridgeville Hybrid CSG	MA	63804	PAR	3.3	Solar Photovoltaic	SUN	PV
2020	1	63491	Partridgeville Road Solar 1, LLC	IPP	Partridgeville Hybrid CSG	MA	63804	PBESS	2.0	Batteries	MWH	BA
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	63188	West Deptford Distributed Solar, LLC	IPP	Solvay Solar	NJ	63452	SSP	6.5	Solar Photovoltaic	SUN	PV
2020	1	63535	Westerlo NY 1, LLC	IPP	Westerlo NY 1	NY	63858	8175A	2.0	Solar Photovoltaic	SUN	PV
2020	1	20854	Winnebago County	Electric CHP	Winnebago County Landfill Gas	WI	50936	EG2R	0.6	Landfill Gas	LFG	IC
2020	2	61669	AES Alamitos Energy, LLC	IPP	AES Alamitos Energy Center	CA	62115	1A	194.0	Natural Gas Fired Combined Cycle	NG	CT

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	61669	AES Alamitos Energy, LLC	IPP	AES Alamitos Energy Center	CA	62115	1B	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61669	AES Alamitos Energy, LLC	IPP	AES Alamitos Energy Center	CA	62115	1S	215.0	Natural Gas Fired Combined Cycle	NG	CA
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
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 (CSG)	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	63462	NY- CSG- Livingston 4	IPP	NY- CSG- Livingston 4	NY	63781	LIV4	2.0	Solar Photovoltaic	SUN	PV
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 Hybrid	CA	63510	PV1	1.8	Solar Photovoltaic	SUN	PV
2020	2	60947	Tesla Inc.	IPP	Walnut Unified School District Walnut HS Hybrid	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 Hybrid	MA	63468	BATT	1.3	Batteries	MWH	BA
2020	3	61012	AES Distributed Energy	IPP	Hurteau Solar Project Hybrid	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

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	63450	DG South Carolina Solar, LLC	IPP	Omtanke Solar	SC	63756	DGSC1	6.0	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 Hybrid	CA	63420	903	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Bullard High School Hybrid	CA	63420	BA903	0.4	Batteries	MWH	BA
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School Hybrid	CA	63421	291	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School Hybrid	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
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	63534	Middletown NY 1, LLC	IPP	Middletown NY 1	NY	63857	8175B	2.0	Solar Photovoltaic	SUN	PV
2020	3	63175	Mud Garden LLC	IPP	Mud Garden Solar	MN	63427	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	63461	NY- CSG- Johnstown 2	IPP	NY- CSG- Johnstown 2	NY	63780	JOHN2	2.0	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 Hybrid	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	7801	Gulf Power Co	Electric Utility	Gulf Power Blue Indigo Energy	FL	63754	SBI01	74.5	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	63442	Mount Hope Solar 2 LLC	IPP	Mount Hope West	NY	63748	MHW	2.0	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

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	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	63452	Ralph's Grocery Company	Industrial	Kroger La Habra	CA	63758	KROLH	1.2	Solar Photovoltaic	SUN	PV
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 Hybrid	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
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	62915	Madison Energy Holdings LLC	IPP	Pinesburg Solar LLC	MD	63903	PINE1	4.3	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
2020	6	61524	226HC 8me LLC	IPP	Holstein 1 Solar Farm	TX	61962	HSF01	200.0	Solar Photovoltaic	SUN	PV
2020	6	63663	28 Livermore Hill Road Solar, LLC	IPP	28 Livermore Hill Road Solar	MA	64014	7405	5.0	Solar Photovoltaic	SUN	PV
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC CSG Hybrid	MA	63011	CRONI	1.5	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project CSG Hybrid	MA	63472	BATT	1.3	Batteries	MWH	BA
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project CSG Hybrid	MA	63472	CYCZ	2.0	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project CSG Hybrid	MA	63435	BATT	1.3	Batteries	MWH	BA
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project CSG Hybrid	MA	63435	PRTDG	2.0	Solar Photovoltaic	SUN	PV
2020	6	63468	Alkali Solar, LLC	IPP	Alkali Solar, LLC	OR	63795	2	10.0	Solar Photovoltaic	SUN	PV
2020	6	60281	Altus Power America Management, LLC	IPP	FastSun 19 CSG	MN	63033	FS19	1.0	Solar Photovoltaic	SUN	PV
2020	6	60281	Altus Power America Management, LLC	IPP	FastSun 2 CSG	MN	62696	FS2	1.0	Solar Photovoltaic	SUN	PV
2020	6	63595	Blandford Sun, LLC	IPP	Sunpin Blandford	MA	63942	SUNBI	4.7	Solar Photovoltaic	SUN	PV
2020	6	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	GT2	117.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	56769	Consolidated Edison Development Inc.	IPP	CED Crane Solar	TX	63519	CRN1	150.0	Solar Photovoltaic	SUN	PV
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV
2020	6	62800	DG Edison New Jersey LLC	IPP	DG Iron Mountain	NJ	62957	IRNMT	5.4	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	6	5248	Dominion Energy Inc	Electric Utility	Myrtle Solar	VA	63746	MYSO	15.0	Solar Photovoltaic	SUN	PV
2020	6	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA
2020	6	58135	Ecos Energy LLC	IPP	Dickinson Solar (CT)	CT	63245	DCKN	2.0	Solar Photovoltaic	SUN	PV
2020	6	58135	Ecos Energy LLC	IPP	Sydney Solar	CT	63244	SYDN	2.0	Solar Photovoltaic	SUN	PV
2020	6	63593	Fort Rock Solar IV LLC	IPP	Fort Rock IV	OR	63926	FRIV	10.0	Solar Photovoltaic	SUN	PV
2020	6	7140	Georgia Power Co	Electric Utility	Moody Air Force Base Solar	GA	62377	1	49.5	Solar Photovoltaic	SUN	PV
2020	6	63292	Harmony Florida Solar LLC	IPP	Harmony Solar	FL	63582	HFS	74.5	Solar Photovoltaic	SUN	PV
2020	6	63470	Illinois PV Fulton 1, LLC	IPP	Illinois PV Fulton 1 CSG	IL	63790	FULT	2.0	Solar Photovoltaic	SUN	PV
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville Solar Park 4	IN	62776	SCRA4	2.3	Solar Photovoltaic	SUN	PV
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Gas City Solar Park	IN	62767	SGASC	2.5	Solar Photovoltaic	SUN	PV
2020	6	61219	Longroad Energy Services LLC	IPP	Prospero Solar	TX	62755	PROSP	300.0	Solar Photovoltaic	SUN	PV
2020	6	62915	Madison Energy Holdings LLC	IPP	Houston/Winona Community Solar One LLC	MN	63534	52827	1.0	Solar Photovoltaic	SUN	PV
2020	6	62915	Madison Energy Holdings LLC	IPP	Winona Community Solar One LLC	MN	63532	52837	1.0	Solar Photovoltaic	SUN	PV
2020	6	63529	Medusa NY 1, LLC	IPP	Medusa NY 1	NY	63854	8175C	2.0	Solar Photovoltaic	SUN	PV
2020	6	62864	Novel Haley Solar LLC CSG	IPP	Novel Haley Solar CSG	MN	63005	HALY	1.0	Solar Photovoltaic	SUN	PV
2020	6	63589	POET Biorefing- Shelbyville	Industrial	POET Biorefining - Shelbyville	IN	63921	1	5.5	Natural Gas Steam Turbine	NG	ST
2020	6	62633	Plum Creek Wind, LLC	IPP	Plum Creek Wind Project (NE)	NE	62711	PLUM	230.0	Onshore Wind Turbine	WND	WT
2020	6	61678	RE Rambler LLC	IPP	Rambler	TX	62141	RMBLR	200.0	Solar Photovoltaic	SUN	PV
2020	6	56215	RWE Renewables Americas LLC	IPP	Peyton Creek Wind Farm LLC	TX	62417	WT1	220.0	Onshore Wind Turbine	WND	WT
2020	6	63460	Rock Garden, LLC	IPP	Rock Garden Solar, LLC	OR	63779	4	10.0	Solar Photovoltaic	SUN	PV
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82059	124.0	Onshore Wind Turbine	WND	WT
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82060	79.0	Onshore Wind Turbine	WND	WT
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82061	23.0	Onshore Wind Turbine	WND	WT
2020	6	60531	Standard Solar	IPP	USS Mayhew Solar LLC CSG	MN	63144	MAYHW	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Milkweed Solar LLC CSG	MN	63142	MLKWD	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Monarch Solar LLC CSG	MN	63147	MNRCH	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Sunrise Solar LLC CSG	MN	63141	SNRSE	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Westeros Solar LLC CSG	MN	63140	USSWS	1.0	Solar Photovoltaic	SUN	PV
2020	6	63573	SulusSolar17	IPP	SulusSolar17	OR	63908	SS17	3.1	Solar Photovoltaic	SUN	PV
2020	6	63290	Taylor Creek Solar LLC	IPP	Taylor Creek Solar	FL	63583	TCS	74.5	Solar Photovoltaic	SUN	PV
2020	6	63532	Walden NY 1, LLC	IPP	Walden NY 1	NY	63855	8175E	2.0	Solar Photovoltaic	SUN	PV
2020	6	63469	West Hines Solar I, LLC	IPP	West Hines Solar I, LLC	OR	63796	1	10.0	Solar Photovoltaic	SUN	PV
2020	7	61012	AES Distributed Energy	IPP	Allis Medina Solar LLC CSG	NY	63129	ALLIS	5.0	Solar Photovoltaic	SUN	PV
2020	7	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC CSG Hybrid	MA	63011	BESS	1.5	Batteries	MWH	BA
2020	7	61012	AES Distributed Energy	IPP	Partridge Hill Solar Hybrid	MA	63264	BATT	1.3	Batteries	MWH	BA
2020	7	62834	Caden Energix Pamplin LLC	IPP	Caden Energix Pamplin LLC	VA	63083	ENX04	15.7	Solar Photovoltaic	SUN	PV
2020	7	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	1	2.5	Petroleum Liquids	DFO	IC
2020	7	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	2	2.5	Petroleum Liquids	DFO	IC
2020	7	56769	Consolidated Edison Development Inc.	IPP	CED Champaign Solar LLC	IL	62681	CSIL	1.6	Solar Photovoltaic	SUN	PV
2020	7	61060	Cypress Creek Renewables	IPP	Midlands	SC	63839	1113	72.1	Solar Photovoltaic	SUN	PV
2020	7	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY
2020	7	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY
2020	7	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY
2020	7	62856	Forefront Power, LLC	IPP	DGS Wasco State Prison	CA	63418	1122	2.3	Solar Photovoltaic	SUN	PV
2020	7	63512	Gateway Energy Storage, LLC	IPP	Gateway Energy Storage System	CA	63834	GTWAY	250.0	Batteries	MWH	BA
2020	7	60719	Harvest Ridge Wind Farm	IPP	Harvest Ridge Wind Farm	IL	61161	GEN01	202.0	Onshore Wind Turbine	WND	WT
2020	7	62638	Helen Solar LLC	IPP	Helen Solar CSG	MN	62706	SC	4.0	Solar Photovoltaic	SUN	PV
2020	7	9234	Indiana Municipal Power Agency	Electric Utility	Tell City Solar Park	IN	62790	STEL2	3.2	Solar Photovoltaic	SUN	PV
2020	7	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	6	14.1	Natural Gas Fired Combined Cycle	NG	CT
2020	7	62915	Madison Energy Holdings LLC	IPP	Nicollet Community Solar One LLC	MN	63120	52828	1.0	Solar Photovoltaic	SUN	PV
2020	7	11479	Madison Gas & Electric Co	Electric Utility	Middleton Airport Solar	WI	62731	1	5.0	Solar Photovoltaic	SUN	PV
2020	7	63471	NES Olympos	IPP	Lane II Solar, LLC	NC	63837	PV1	4.9	Solar Photovoltaic	SUN	PV
2020	7	56990	NJR Clean Energy Ventures Corporation	IPP	Monroe Solar Farm, LLC	NJ	63451	MONR1	13.1	Solar Photovoltaic	SUN	PV
2020	7	61156	NMRD Data Center, LLC	IPP	Encino Solar Energy Center	NM	63860	ESEC	55.0	Solar Photovoltaic	SUN	PV
2020	7	62640	Northfield Solar LLC	IPP	Northfield Solar CSG	MN	62708	SC	5.0	Solar Photovoltaic	SUN	PV
2020	7	62788	Oberon Solar IA	IPP	Oberon IA	TX	62933	OBR1A	150.0	Solar Photovoltaic	SUN	PV
2020	7	62789	Oberon Solar IB	IPP	Oberon IB	TX	62932	OBR1B	30.0	Solar Photovoltaic	SUN	PV
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Chickasaw Nation Solar Farm	OK	63500	CVS1	5.0	Solar Photovoltaic	SUN	PV
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Choctaw Nation Solar Farm	OK	63499	CVS1	5.0	Solar Photovoltaic	SUN	PV
2020	7	63592	Riley Solar I LLC	IPP	Riley	OR	63925	RILEY	10.0	Solar Photovoltaic	SUN	PV
2020	7	61677	Sol Systems	IPP	Ruff Solar LLC	NC	62594	11625	5.0	Solar Photovoltaic	SUN	PV
2020	7	63624	SulusSolar35	IPP	SulusSolar35	OR	63969	SS35	3.0	Solar Photovoltaic	SUN	PV
2020	7	63459	Suntex Solar, LLC	IPP	Suntex Solar, LLC	OR	63778	3	10.0	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	7	62637	Walcott Solar LLC	IPP	Walcott Solar CSG	MN	62707	SC	4.0	Solar Photovoltaic	SUN	PV
2020	7	62641	Warsaw Solar LLC	IPP	Warsaw Solar CSG	MN	62709	SC	2.0	Solar Photovoltaic	SUN	PV
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	63533	Westtown NY 2, LLC	IPP	Westtown NY 2	NY	63856	8175D	2.0	Solar Photovoltaic	SUN	PV
2020	8	60571	AEP Onsite Partners	IPP	Pine Hill	RI	63997	PHS01	5.0	Solar Photovoltaic	SUN	PV
2020	8	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project Hybrid CSG	MA	63470	BATT	2.9	Batteries	MWH	BA
2020	8	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project Hybrid CSG	MA	63470	MCDMT	4.5	Solar Photovoltaic	SUN	PV
2020	8	63019	AGA TAG Solar III LLC	IPP	AGA TAG Solar III LLC	SC	63243	SCAG	2.0	Solar Photovoltaic	SUN	PV
2020	8	63380	Brenda Luhman Community Solar LLC	IPP	Brenda Luhman - CSG	MN	63682	BLCS	1.0	Solar Photovoltaic	SUN	PV
2020	8	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX02	20.0	Solar Photovoltaic	SUN	PV
2020	8	63072	Cerro Gordo Wind Farm	IPP	Cerro Gordo Wind Farm	IA	63287	CGWF	42.0	Onshore Wind Turbine	WND	WT
2020	8	61060	Cypress Creek Renewables	IPP	Wagyu	TX	63273	1215	120.0	Solar Photovoltaic	SUN	PV
2020	8	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville-Rock Hill Battery	NC	63064	ES1	8.8	Batteries	MWH	BA
2020	8	57202	E&E Enterprises LLC	IPP	Allendorf	IA	56215	ET	1.8	Onshore Wind Turbine	WND	WT
2020	8	60496	Enerparc Inc.	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV
2020	8	62856	Forefront Power, LLC	IPP	Reed Road Solar	IL	63071	1822	1.3	Solar Photovoltaic	SUN	PV
2020	8	62856	Forefront Power, LLC	IPP	Square Barn Solar	IL	63070	1820	1.5	Solar Photovoltaic	SUN	PV
2020	8	61944	GSRP	IPP	Lafayette 2 - Internal Services Dept	CA	63527	GEN1	1.9	Solar Photovoltaic	SUN	PV
2020	8	61944	GSRP	IPP	Lafayette 2 - MLK Jr. Hospital (MLK)	CA	63623	GEN1	1.7	Solar Photovoltaic	SUN	PV
2020	8	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	6A	14.1	Natural Gas Fired Combined Cycle	NG	CA
2020	8	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	7	14.1	Natural Gas Fired Combined Cycle	NG	CT
2020	8	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	7A	14.1	Natural Gas Fired Combined Cycle	NG	CA
2020	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 3	PA	62991	PAWT3	20.0	Solar Photovoltaic	SUN	PV
2020	8	62915	Madison Energy Holdings LLC	IPP	ESIL-PFCHICAGO 3, LLC	IL	63888	PF3CH	1.4	Solar Photovoltaic	SUN	PV
2020	8	63471	NES Olympos	IPP	Benson Solar, LLC	NC	63836	PV1	4.9	Solar Photovoltaic	SUN	PV
2020	8	63471	NES Olympos	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV
2020	8	63471	NES Olympos	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV
2020	8	63632	North American Central - LLC	IPP	Central Generating	MI	63977	3	1.6	Landfill Gas	LFG	IC
2020	8	62847	Novel Pederson Solar LLC CSG	IPP	Novel Pederson Solar CSG	MN	62983	PED	1.0	Solar Photovoltaic	SUN	PV
2020	8	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L1	1.5	Onshore Wind Turbine	WND	WT
2020	8	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L2	1.5	Onshore Wind Turbine	WND	WT
2020	8	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L3	1.5	Onshore Wind Turbine	WND	WT
2020	8	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T1	1.5	Onshore Wind Turbine	WND	WT
2020	8	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T2	1.5	Onshore Wind Turbine	WND	WT
2020	8	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T3	1.5	Onshore Wind Turbine	WND	WT
2020	8	15466	Public Service Co of Colorado	Electric Utility	Cheyenne Ridge Wind Farm	CO	62952	CRW01	488.0	Onshore Wind Turbine	WND	WT
2020	8	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR1	200.0	Solar Photovoltaic	SUN	PV
2020	8	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR2	200.0	Solar Photovoltaic	SUN	PV
2020	8	63366	Schueler Community Solar LLC	IPP	Schueler Community Solar	MN	63658	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	8	63365	Siems Community Solar LLC	IPP	Siems Solar Project CSG	MN	63657	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	8	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	BESS1	10.0	Batteries	MWH	BA
2020	8	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	BESS2	10.0	Batteries	MWH	BA

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	12949	Morgantown Energy Associates	Electric CHP	Morgantown Energy Facility	WV	10743	GEN1	50.0	Conventional Steam Coal	WC	ST
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	56953	Bos Dairy, LLC	Industrial	Bos Dairy, LLC	IN	57625	BOS2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	2	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	6	24.0	Petroleum Liquids	DFO	GT
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	Altech III	CA	50485	GEN1	21.7	Onshore Wind Turbine	WND	WT
2020	2	2770	Terra-Gen Operating Co-Wind	IPP	Altech III	CA	50485	GEN2	3.4	Onshore Wind Turbine	WND	WT
2020	2	2770	Terra-Gen Operating Co-Wind	IPP	Dutch Wind Energy	CA	57301	DEC	8.0	Onshore Wind Turbine	WND	WT
2020	2	20541	Wheelabrator Environmental Systems	Electric CHP	Wheelabrator Frackville Energy	PA	50879	GEN1	42.5	Conventional Steam Coal	WC	ST
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	4	55970	JHP Pharmaceuticals LLC	Industrial	Par Sterile Products	MI	50318	38-1	2.8	Natural Gas Fired Combustion Turbine	NG	GT
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

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	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 Green Energy	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
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
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	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

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	9	61012	AES Distributed Energy	IPP	AES Kekaha Solar, LLC Hybrid	HI	63280	BESS	14.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	14.0
2020	9	61012	AES Distributed Energy	IPP	Finchville Solar, LLC Hybrid	NY	62999	BESS	3.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.0
2020	9	61012	AES Distributed Energy	IPP	Finchville Solar, LLC Hybrid	NY	62999	FINCH	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
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	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	9	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	9	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	9	63373	Bitter Ridge Wind Farm, LLC	IPP	Bitter Ridge Wind Farm, LLC	IN	63666	BIT	130.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	130.0
2020	9	63507	Bluebird Solar LLC	IPP	Bluebird Solar SC LLC	SC	63833	BB	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
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	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX03	12.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	12.0
2020	9	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	9	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	9	56769	Consolidated Edison Development Inc.	IPP	CED Northampton Solar LLC Hybrid	MA	62695	NSES	2.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.3
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	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	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	9	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	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	63081	Exus North America Management Partners LLC	IPP	Bearkat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WND	WT	(OT) Other	162.1
2020	9	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	9	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	9	61873	GA Solar 4	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	200.0
2020	9	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN1	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2020	9	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN2	3.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.9
2020	9	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN3	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1
2020	9	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	9	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	9	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	9	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	9	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	9	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	9	62759	Geronimo Energy	IPP	Aster Community Solar Garden, LLC	MN	63305	ASTER	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Geranium Solar, LLC	MN	63317	GERNM	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Hyacinth Solar, LLC	MN	63312	HYCIN	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Iris Solar, LLC (MN)	MN	63319	IRIS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Kerria Solar, LLC	MN	63315	KERIA	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Primrose Solar, LLC	MN	63314	PROSE	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	72.8
2020	9	60025	Greenbacker Renewable Energy Corporation	IPP	Palmer Creek Solar, LLC	OR	63956	223	2.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.3
2020	9	60025	Greenbacker Renewable Energy Corporation	IPP	Renew Solar ABC Sacramento LLC	CA	62545	SACRA	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2020	9	60025	Greenbacker Renewable Energy Corporation	IPP	Solar Hagerstown	MD	62912	137	7.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2020	9	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	9	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	9	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	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	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	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	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	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	9	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	9	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	9	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	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	Betcher CSG 1, LLC	MN	63819	BET01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
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	62915	Madison Energy Holdings LLC	IPP	Huneke CSG 1, LLC	MN	63820	HUN01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62915	Madison Energy Holdings LLC	IPP	Huneke CSG 2, LLC	MN	63821	HUN02	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	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	9	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	9	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
2020	9	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	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	63471	NES Olympos	IPP	Pilot Mountain Solar, LLC	NC	63835	PV1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2020	9	63471	NES Olympos	IPP	Willard Solar	NC	60287	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	ACCP NJ 1	NJ	63198	ACCP1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	Galloway Landfill	NJ	63698	GALLO	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2020	9	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	9	62848	Novel Jewison Solar LLC CSG	IPP	Novel Jewison Solar CSG	MN	62984	JEWI	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	9	62866	Novel MNDot Solar LLC CSG	IPP	Novel MNDot Solar CSG	MN	63007	MNDT	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
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	130.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	130.0
2020	9	61592	Pleinmont Solar 1 LLC	IPP	Pleinmont Solar 1	VA	62012	PLNM1	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2020	9	56215	RWE Renewables Americas LLC	IPP	Cranell Wind Farm LLC	TX	62416	WT1	220.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	220.0
2020	9	63449	Renewable Properties, LLC	IPP	Ballenger Road Solar A	SC	63759	BALGR	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	9	63449	Renewable Properties, LLC	IPP	Soscol Ferry Solar	CA	63761	SSCLC	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	63449	Renewable Properties, LLC	IPP	Soscol Ferry Solar	CA	63761	SSCLD	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	63449	Renewable Properties, LLC	IPP	White Horse Solar A	SC	63760	WHRSA	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
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	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	9	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	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	3.5
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	3.5

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)
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	3.5
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	3.5
2020	9	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	9	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	9	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	9	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(V) Under construction, more than 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	(V) Under construction, more than 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	62701	Vista Solar, Inc.	IPP	Bio-Rad	CA	63189	BIORD	2.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2020	9	62701	Vista Solar, Inc.	IPP	Hopkinton Phase 2	RI	63191	HTP2	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	9	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-10	2.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2020	9	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-9	2.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2020	9	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.4
2020	9	63490	Williamsville Road LLC	IPP	Williamsville Hybrid	MA	63805	WIL	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	10	61012	AES Distributed Energy	IPP	East Brookfield Main Street Solar LLC	MA	63887	EBMSS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC Hybrid	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 Hybrid	NY	63415	CENTR	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	61012	AES Distributed Energy	IPP	Ryan Road Solar LLC Hybrid	MA	63044	BESS	4.3	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	4.3
2020	10	61012	AES Distributed Energy	IPP	Ryan Road Solar LLC Hybrid	MA	63044	ORCHA	4.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.3
2020	10	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage	NY	63774	KISCB	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2020	10	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage	NY	63774	KRS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	10	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	10	63208	Bighorn Solar, LLC	IPP	Bighorn Solar	OR	63467	PGR16	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2020	10	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	10	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar Hybrid	CO	63722	BA1	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2020	10	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar Hybrid	CO	63722	PV1	22.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.0
2020	10	63073	Chicot Solar, LLC	IPP	Chicot Solar	AR	63295	CHICO	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2020	10	63596	Clinton Solar 4 LLC	IPP	Clinton Solar 4 LLC	IL	63945	CLIN	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	10	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	10	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	10	56769	Consolidated Edison Development Inc.	IPP	CED Beecher Sun Solar	IL	63823	BS1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	56769	Consolidated Edison Development Inc.	IPP	CED Hilltop Solar	IL	63824	HS1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	56769	Consolidated Edison Development Inc.	IPP	CED Peoria Solar	IL	63656	PS1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	63613	Cortland Solar 2 LLC	IPP	Cortland	MA	63949	CORT2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	10	62803	Cove Mountain Solar 2 LLC	IPP	Cove Mountain Solar 2	UT	62470	GEN01	122.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	122.0
2020	10	62802	Cove Mountain Solar LLC	IPP	Cove Mountain Solar	UT	62469	GEN01	58.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	58.0
2020	10	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	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	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	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	10	58970	Ecoplexus, Inc	IPP	HWY 158 PV	NC	63566	HW158	9.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.0
2020	10	56201	Engie North America	IPP	King Plains Wind Project	OK	63104	WTG	248.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	248.2
2020	10	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	10	62856	Forefront Power, LLC	IPP	DGS Valley State Prison	CA	63947	579	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2020	10	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School Hybrid	CA	63422	1122	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School Hybrid	CA	63422	BA112	0.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.3
2020	10	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	10	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	10	63629	Harrison Solar, LLC	IPP	Harrison Solar, LLC	NC	63975	HARS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	63628	Hayes Solar, LLC	IPP	Hayes Solar, LLC	NC	63974	HAYES	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2020	10	9234	Indiana Municipal Power Agency	Electric Utility	Centerville Solar Park	IN	62794	SCENT	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Park 4	IN	62791	SRIC4	7.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.1
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	Furnace Rd Community Solar Farm	NY	62508	1420	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	10	59195	Landfill Energy Systems	IPP	Zimmerman Energy	IN	59425	ZE#4	1.4	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	1.6
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	63616	Lena Solar 1 LLC	IPP	Lena	IL	63951	LENA	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elk Hill Solar 2	PA	63768	PAEH2	15.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2020	10	63609	Lyman Garden LLC	IPP	Lyman Garden	MN	63937	CGS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	62915	Madison Energy Holdings LLC	IPP	ESIL-PFCHICAGO 2, LLC	IL	63889	PF2CH	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	62915	Madison Energy Holdings LLC	IPP	RJC CSG, LLC	MN	63816	RJC01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	62915	Madison Energy Holdings LLC	IPP	Timonium Fairgrounds	MD	63904	FAIR1	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2020	10	63607	Marion Garden LLC	IPP	Marion Garden	MN	63935	CGS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	63617	Mendota US Solar 1 LLC	IPP	Mendota	IL	63954	MENDS	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	(V) Under construction, more than 50 percent complete	5.0
2020	10	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	10	63185	Neighborhood Power Corp.	IPP	Mt Hope Solar	OR	63663	W0053	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	10	63185	Neighborhood Power Corp.	IPP	Williams Acres Solar	OR	63664	W0055	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	10	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	10	62846	Novel Schmoll Farms Solar LLC CSG	IPP	Novel Schmoll Farms Solar CSG	MN	62982	SCHM	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	10	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	10	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	10	63202	Pika Solar, LLC	IPP	Pika Solar	OR	63462	PGR17	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	62778	Rattlesnake Flat, LLC	IPP	Rattlesnake	WA	62936	RAT	144.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	144.0
2020	10	63634	Red Toad 315 Vinson Road, LLC	IPP	315 Vinson Road	NC	63979	VINSN	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVA	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVB	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVC	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	63618	Ridge Farm Solar 1 LLC	IPP	Ridge Farm	IL	63952	RIDGE	2.0	Solar Photovoltaic	SUN	PV	(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	10	63660	Route 76 Boone Solar 1, LLC	IPP	Route 76 Boone Solar 1	IL	64018	7724	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	63374	Sanford Airport Solar, LLC	IPP	Sanford Solar	ME	63667	SAS	49.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.4
2020	10	63522	Santa Ana Storage 1	IPP	Johanna Energy Center, LLC	CA	63843	SASP1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	10	63610	Severson HoldCo LLC	IPP	Severson Garden	MN	63934	CGS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	60038	Silicon Valley Clean Water	Electric CHP	Silicon Valley Clean Water	CA	60249	BES	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2020	10	63664	Somonauk Road Solar 1, LLC	IPP	Somonauk Road Solar 1	IL	64013	6344	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	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	10	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	10	60531	Standard Solar	IPP	USS Chariot Solar LLC	MN	63171	CHROT	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	60531	Standard Solar	IPP	USS Christoffer Solar LLC CSG	MN	63152	CHRST	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	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	10	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	10	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	10	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	10	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	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	63656	SulusSolar28	IPP	SulusSolar28	OR	64007	SS28	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2020	10	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	10	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	10	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	10	63623	Thor Solar 1 CEI, LLC	IPP	SSD Clackamas 1, LLC	OR	63961	1	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	10	63623	Thor Solar 1 CEI, LLC	IPP	SSD Clackamas 4, LLC	OR	63962	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	63623	Thor Solar 1 CEI, LLC	IPP	SSD Clackamas 7, LLC	OR	63963	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 1, LLC	OR	63964	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 3, LLC	OR	63958	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 5, LLC	OR	63959	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 6, LLC	OR	63960	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	10	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	10	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	10	62946	USS All In Solar LLC	IPP	USS All In Solar LLC CSG	MN	63160	ALLIN	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	62954	USS Bush Solar LLC	IPP	USS Bush Solar LLC CSG	MN	63166	BUSH	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	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	10	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2020	10	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	10	63490	Williamsville Road LLC	IPP	Williamsville Hybrid	MA	63805	WBESS	3.3	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.3
2020	10	63472	Willow Creek Wind Power, LLC	IPP	Willow Creek Wind Power LLC	SD	62431	1	103.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	105.0
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 Hybrid	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 Hybrid	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 Hybrid	MA	63474	ANNES	4.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.6
2020	11	61012	AES Distributed Energy	IPP	Annese Solar Project Hybrid	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	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	11	61012	AES Distributed Energy	IPP	West A&B Solar Project Hybrid	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 Hybrid	MA	63473	WEST	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2020	11	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	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	61949	Assembly Solar I, LLC	IPP	Assembly Solar Project	MI	62422	ASP01	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2020	11	63419	Augusta Solar, LLC	IPP	Augusta Solar	SC	63720	PGR23	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	11	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	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	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	11	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	11	56769	Consolidated Edison Development Inc.	IPP	CED Spring Creek Solar	IL	63948	CS1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
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	63511	Constellation Solar Illinois 2, LLC	IPP	Charter Durabar at Woodstock	IL	63967	CDB1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	11	63511	Constellation Solar Illinois 2, LLC	IPP	Charter Durabar at Woodstock	IL	63967	CDB2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	11	63511	Constellation Solar Illinois 2, LLC	IPP	Conagra Foods at St. Elmo	IL	63830	CFS	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2020	11	63511	Constellation Solar Illinois 2, LLC	IPP	The GSI Group LLC at Assumption	IL	63968	GSI	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
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	(V) Under construction, more than 50 percent complete	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	Prairie Hill Wind Project	TX	63100	WTG	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
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	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	11	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	11	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	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	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	(L) Regulatory approvals pending. Not under construction	1.0
2020	11	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	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	63408	Holly Swamp Solar, LLC	IPP	Holly Swamp Solar, LLC	NC	63695	13502	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
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	62134	Hunter Solar LLC	IPP	Hunter Solar LLC	UT	62656	HUSOL	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
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	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

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	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	61219	Longroad Energy Services LLC	IPP	Weaver Wind	ME	63132	WEAVR	72.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	72.6
2020	11	63440	Milford Solar I (NES)	IPP	Milford Solar 1	UT	62812	MS1	99.0	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	62869	Novel Benedix Solar LLC CSG	IPP	Novel Benedix Solar CSG	MN	63010	BNDX	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	11	63014	Novel Debra Solar LLC	IPP	Novel Debra Solar LLC CSG	MN	63247	DEBRA	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	11	63017	Novel Wayne Solar LLC	IPP	Novel Wayne Solar LLC CSG	MN	63249	WAYNE	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	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	(V) Under construction, more than 50 percent complete	150.0
2020	11	63405	PG Solar, LLC	IPP	PG Solar, LLC	NC	63692	13504	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	11	14354	PacifiCorp	Electric Utility	Ekola Flats	WY	62591	1	250.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.9
2020	11	14354	PacifiCorp	Electric Utility	TB Flats	WY	62516	1	503.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	503.2
2020	11	63141	Rancho Seco Solar II, LLC	IPP	Rancho Seco Solar II, LLC	CA	63387	RSS2	160.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	160.0
2020	11	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	11	63608	Silver Lake Garden LLC	IPP	Silver Lake Garden	MN	63936	CGS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	61677	Sol Systems	IPP	Buttercup Solar, LLC	NC	64002	11629	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	ESA Buies Creek, LLC	NC	63732	11630	2.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.8
2020	11	61677	Sol Systems	IPP	Eros Solar, LLC	NC	63733	11631	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	11	62844	Spring Hope Solar 3, LLC	IPP	Spring Hope Solar 3, LLC	NC	62997	PGR09	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
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	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	SYLES	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2020	11	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	11	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	11	63623	Thor Solar 1 CEI, LLC	IPP	Danville Farm, LLC	VA	63965	1	12.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	12.0
2020	11	63602	Titan Solar 1, LLC	IPP	Titan Solar 1 (CA)	CA	63932	TITN1	70.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	70.0
2020	11	62955	USS Hancock Solar	IPP	USS Hancock Solar LLC CSG	MN	63167	HNCCK	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	11	62956	USS Pheasant Solar LLC	IPP	USS Pheasant Solar LLC	MN	63168	PHSNT	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	11	62953	USS Reindeer Solar LLC	IPP	USS Reindeer Solar LLC CSG	MN	63165	RENDR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	11	63597	Vermilion Solar 1, LLC	IPP	Vermilion Solar 1, LLC	IL	63946	VERM	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	11	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	12	62685	10 Briggs Solar NG, LLC	IPP	10 Briggs Solar NG, LLC (East)	RI	62781	02818	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	12	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	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	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	12	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	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	61012	AES Distributed Energy	IPP	Amaterasu LLC	MA	64000	BESS	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2020	12	61012	AES Distributed Energy	IPP	Amaterasu LLC	MA	64000	DRC	4.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.6
2020	12	61012	AES Distributed Energy	IPP	Blackhorse Farm Solar, LLC	RI	63944	BHF	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2020	12	61012	AES Distributed Energy	IPP	Partridge Hill Solar Hybrid	MA	63264	PART3	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	12	61012	AES Distributed Energy	IPP	Randall Solar Project Hybrid	MA	63475	BATT	3.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.3
2020	12	61012	AES Distributed Energy	IPP	Randall Solar Project Hybrid	MA	63475	RAND	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	12	57416	Acciona Energy USA Global, LLC	IPP	La Chalupa, LLC	TX	63624	LC	198.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	198.5
2020	12	62627	Alchemy Renewable Energy	IPP	Twittys Creek Solar, LLC	VA	63077	VATC	13.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	60281	Altus Power America Management, LLC	IPP	FastSun12	MN	63966	FS12	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	12	62119	Antelope Expansion 3A, LLC	IPP	Antelope Expansion 3A	CA	62673	ANX3A	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2020	12	62118	Antelope Expansion 3B, LLC	IPP	Antelope Expansion 3B	CA	62674	ANX3B	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
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	(U) Under construction, less than or equal to 50 percent complete	123.6
2020	12	62681	BT Cooke Solar, LLC	IPP	Rippey Solar	TX	62773	BTCOO	59.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	59.0
2020	12	62682	BT Kellam Solar LLC	IPP	Kellam Solar	TX	62774	BTKEL	59.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	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	12	63654	BristolSolar	IPP	BristolSolar	OR	64009	BS	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	(T) Regulatory approvals received. Not under construction	199.4
2020	12	63625	CCUA Solar, LLC	IPP	CCUA Solar	NJ	63971	CCUA	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2020	12	63627	Cardinal Solar LLC	IPP	Cardinal Solar LLC	SC	63973	CARD	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
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	63581	Cedar Springs Transmission, LLC	IPP	Cedar Springs II	WY	63915	82634	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	63582	Cedar Springs Wind III, LLC	IPP	Cedar Springs III	WY	63916	82635	133.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	133.0
2020	12	63580	Cedar Springs Wind, LLC	IPP	Cedar Springs I	WY	63914	82633	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	63495	Centerfield Cooper Solar, LLC	IPP	Centerfield Cooper Solar, LLC	SC	63810	PGR24	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	12	63606	Central 40, LLC	IPP	Central 40	CA	63940	CEN40	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2020	12	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	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
2020	12	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	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

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	63569	Cornillie 2 Community Solar LLC	IPP	Cornillie 2 Community (CSG)	MN	63899	CORN	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
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	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	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	69.3
2020	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant Hybrid	CA	260	BAT1	300.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	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	12	62667	East Line Solar, LLC	IPP	East Line Solar	AZ	62899	EASTL	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2020	12	58970	Ecoplexus, Inc	IPP	Camp San Luis Obispo	CA	63870	CPSLO	1.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.2
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	58970	Ecoplexus, Inc	IPP	Kern Valley SP	CA	63875	KRNVL	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2020	12	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	12	63662	Edwardsville Solar II, LLC	IPP	Edwardsville Solar II	IL	64016	6777	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2020	12	5860	Empire District Electric Co	Electric Utility	Kings Point Wind Energy Center	MO	62475	KPW1	149.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	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	153.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	153.6
2020	12	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	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	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	128.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	128.0
2020	12	6452	Florida Power & Light Co	Electric Utility	Egret Solar Center	FL	62925	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	74.5
2020	12	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	12	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	12	62759	Geronimo Energy	IPP	Bingham Solar, LLC	MI	63321	BINGH	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	12	62759	Geronimo Energy	IPP	Camellia Solar, LLC	MN	64001	CAMEL	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	12	62759	Geronimo Energy	IPP	Temperance Solar, LLC	MI	63322	TEMPR	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	12	63545	Golden Field Solar III, LLC	IPP	Golden Field Solar III, LLC	CA	63859	RCTR	192.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	192.0
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	60025	Greenbacker Renewable Energy Corporation	IPP	Turquoise Nevada, LLC	NV	63906	142	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
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	(V) Under construction, more than 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	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	12	63137	Idemitsu Renewables	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	Idemitsu Renewables	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	Idemitsu Renewables	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	61853	Innogy Renewables US LLC	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	126.0
2020	12	61853	Innogy Renewables US LLC	IPP	Scioto Ridge Wind Farm	OH	58780	1	249.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	249.8
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	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	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	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	12	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	12	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	12	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	12	62883	Kruger Energy Hertford, LLC	IPP	Hertford Solar Power, LLC	NC	63024	KEH	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	12	50123	Leeward Asset Management, LLC	IPP	Lone Tree Wind, LLC	IL	63251	LTW	79.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	198.5
2020	12	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	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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	63572	Marbury Point Solar LLC	IPP	DC Water Solar	DC	63917	8030A	4.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.5
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	(U) Under construction, less than or equal to 50 percent complete	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	12	0.4	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	13	0.4	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.4

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	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	14	0.4	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.4
2020	12	12341	MidAmerican Energy Co	Electric Utility	Contrail Wind Farm	IA	63639	COWF	112.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	(V) Under construction, more than 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	63655	MilfordSolar	IPP	MilfordSolar OR	OR	64008	MS	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2020	12	62916	Mohave County Wind Farm	IPP	Mohave County Wind Farm	AZ	63114	MCWF	350.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.0
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	63185	Neighborhood Power Corp.	IPP	River Valley Solar	OR	63665	W0054	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2020	12	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	12	63605	Nicollet Garden LLC	IPP	Nicollet Garden	MN	63938	CGS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	13781	Northern States Power Co - Minnesota	Electric Utility	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	(V) Under construction, more than 50 percent complete	19.6
2020	12	63477	Oasis Alta, LLC	IPP	Oasis Alta	CA	63941	OA1	14.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	14.4
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	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	56215	RWE Renewables Americas LLC	IPP	Boiling Springs Wind Farm	OK	62871	BGSPS	148.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	148.4
2020	12	56215	RWE Renewables Americas LLC	IPP	Raymond Wind Farm, LLC	TX	62909	ERAYM	200.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.2
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	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	12	63164	Robin Solar, LLC	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
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	(V) Under construction, more than 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	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	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	61677	Sol Systems	IPP	Ventura Solar, LLC	NC	63734	11632	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	12	17718	Southwestern Public Service Co	Electric Utility	Sagamore Wind	NM	63578	SWF01	522.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	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	63657	SulusSolar33	IPP	SulusSolar33	OR	64006	SS33	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	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	12	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	12	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	12	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	12	61954	Techren Solar V LLC	IPP	Techren Solar V	NV	62440	TECH5	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	19876	Virginia Electric & Power Co	Electric Utility	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	(V) Under construction, more than 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	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	(V) Under construction, more than 50 percent complete	150.0
2021	1	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
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	6455	Duke Energy Florida, LLC	Electric Utility	Santa Fe Solar Power Plant	FL	63517	PV1	42.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	58970	Ecoplexus, Inc	IPP	Mule Creek State Prison	CA	63876	MLCRK	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
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	(U) Under construction, less than or equal to 50 percent complete	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	63644	Kish Solar, LLC	IPP	Kish	IL	63990	KISH	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	1	62868	Novel Peter Solar LLC CSG	IPP	Novel Peter Solar CSG	MN	63009	PETR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-1	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-2	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-3	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-4	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-5	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-6	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	222.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	222.0
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	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
2021	1	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
2021	1	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
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1 Hybrid	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 Hybrid	MA	63506	SCRV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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)
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	1,105.0
2021	1	63395	Spencer Solar Farm, LLC	IPP	Spencer Solar	MA	63676	SPENC	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2021	1	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
2021	1	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
2021	1	18454	Tampa Electric Co	Electric Utility	Durrance	FL	63495	1	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2021	1	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
2021	1	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
2021	1	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
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(TS) Construction complete, but not yet in commercial operation	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	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLST2	115.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	115.0
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R1	18.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	18.8
2021	2	63651	Energix Hollyfield, LLC	IPP	Energix Hollyfield, LLC	VA	64010	ENX06	13.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	13.0
2021	2	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	250.0
2021	2	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	250.0
2021	2	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	500.0
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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	63590	Novel Martens Solar LLC	IPP	Novel Martens Solar LLC	MN	63987	MRTNS	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	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-2	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-3	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-4	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-5	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-6	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-7	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-8	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-9	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG10	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	56215	RWE Renewables Americas LLC	IPP	West Raymond Wind Farm LLC	TX	62855	WRAYM	239.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	239.8
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	2	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
2021	2	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
2021	2	62973	USS Dot Com Solar LLC	IPP	USS Dot Com Solar LLC CSG	MN	63215	DOTCM	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	2	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
2021	2	63604	Union Garden LLC	IPP	Union Garden	MN	63939	CGS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	3	62627	Alchemy Renewable Energy	IPP	Logansport Solar	IN	63861	INLP	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2021	3	63568	BD Solar 1 LLC	IPP	Milo PV - BD Solar 1 LLC	ME	63894	MILPV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2021	3	63567	BD Solar Augusta LLC	IPP	Augusta PV - BD Solar Augusta LLC	ME	63895	AUGPV	7.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.2
2021	3	63566	BD Solar Fairfield LLC	IPP	Fairfield PV - BD Solar Fairfield LLC	ME	63896	FAIPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2021	3	63565	BD Solar Oxford LLC	IPP	Oxford PV - BD Solar Oxford LLC	ME	63897	OXFPV	9.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.2
2021	3	57365	Consolidated Edison Solutions Inc	IPP	CES Agawam Tuckahoe Solar Hybrid	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 Hybrid	MA	63763	ATPV	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.6
2021	3	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
2021	3	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	3	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	3	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
2021	3	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
2021	3	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
2021	3	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
2021	3	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
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	59497	Eversource	IPP	Outer Cape Community Battery	MA	62604	OCESS	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2021	3	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
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	63645	Nostrand Solar, LLC	IPP	Nostrand	IL	63991	NOS	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	3	62867	Novel Winegar Partnership Solar CSG	IPP	Novel Winegar Partnership Solar CSG	MN	63008	WINE	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
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	63643	Peterman Solar II, LLC	IPP	Peterman II	IL	63989	PETE	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2021	3	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
2021	3	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
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	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
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	63646	Vulcan Solar, LLC	IPP	Vulcan	IL	63992	VUL	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	199.8
2021	3	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
2021	3	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
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

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	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	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
2021	4	63652	Energix Buckingham, LLC	IPP	Energix Buckingham, LLC	VA	64015	ENX05	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	4	60952	Energix Mt. Jackson, 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	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	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Palm Bay Solar	FL	62921	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	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	(U) Under construction, less than or equal to 50 percent complete	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	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
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	61946	Prairie State Solar, LLC	IPP	Prairie State Solar Project	IL	62420	PSS01	99.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	99.0
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Troy Solar	IN	63929	TROY1	50.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.4
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	63326	USS Solar Brick	IPP	USS Solar Brick	IL	63618	USBRK	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	4	63550	Ventura Energy Storage, LLC	IPP	Saticoy	CA	63891	SATCY	100.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	100.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project Hybrid	TX	63255	2WPBA	40.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	40.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project Hybrid	TX	63255	2WPSO	420.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	420.0
2021	5	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
2021	5	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
2021	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC Hybrid	CA	60094	BLST3	115.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	115.0
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM45	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM46	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM47	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM48	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM49	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	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	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8.2	37.5	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	45.5
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	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	63396	Sturbridge Road Solar Farm, LLC	IPP	Sturbridge Road Solar	MA	63677	STURB	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2021	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	4.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.4
2021	6	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
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	63600	Cal Flats BESS, LLC	IPP	Cal Flats BESS	CA	63930	CF60	60.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	60.0
2021	6	56769	Consolidated Edison Development Inc.	IPP	CED Denmark Solar Hybrid	ME	63898	DSBS	2.3	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.3
2021	6	56769	Consolidated Edison Development Inc.	IPP	CED Denmark Solar Hybrid	ME	63898	DSPV	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2021	6	63611	Coso Battery Storage LLC	IPP	Coso Battery Storage	CA	63943	61730	60.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	60.0
2021	6	63523	DePue Holdings, LLC	IPP	DePue Holdings, LLC	IL	63845	DEPUE	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
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	6455	Duke Energy Florida, LLC	Electric Utility	Trenton	FL	63995	ES1	11.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	11.0
2021	6	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	63653	Energix Nokesville, LLC	IPP	Energix Nokesville, LLC	VA	64012	ENX07	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	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	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	63549	Lily Solar, LLC	IPP	Lily Solar Hybrid	TX	63892	LILY	146.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	181.0
2021	6	63549	Lily Solar, LLC	IPP	Lily Solar Hybrid	TX	63892	LILYB	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2021	6	61219	Longroad Energy Services LLC	IPP	Muscle Shoals	AL	62462	GEN01	227.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	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	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
2021	6	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
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	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	63257	Solar Carver 1, LLC	IPP	Solar Carver 1 Hybrid	MA	63541	BCRV1	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.0
2021	6	63243	Solar Carver 3, LLC	IPP	Solar Carver 3 Hybrid	MA	63506	BCRV3	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2021	6	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
2021	6	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
2021	6	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH1	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	63328	USS Goodrich Solar	IPP	USS Goodrich Solar	IL	63620	USGCH	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	6	63327	USS Grandpa Solar	IPP	USS Grandpa Solar	IL	63619	USGPA	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2021	6	63329	USS Sycamore Solar	IPP	USS Sycamore Solar	IL	63621	USSYC	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	6	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
2021	6	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

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	6	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
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	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	6	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	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	2.8
2021	7	63430	Astral Electricity, LLC	IPP	Chisholm Grid Energy Storage System	TX	63737	CHS01	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	7	63571	Azure Sky Solar Project, LLC	IPP	Azure Sky Solar	TX	63905	ASKYS	225.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	225.0
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	6455	Duke Energy Florida, LLC	Electric Utility	Cape San Blas	FL	63996	ES1	5.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.5
2021	7	56987	East Blackland Solar Project 1 LLC	IPP	East Blackland Solar Project 1	TX	57659	PSF	144.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	144.0
2021	7	56615	First Solar Project Development	IPP	Sun Stream 2	AZ	63440	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2021	7	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	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	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project Hybrid	CA	58462	MCST1	230.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	230.0
2021	7	63139	Minonk Stewardship Wind LLC	IPP	Bennington Wind	IL	63384	BENN	93.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	93.0
2021	7	61593	Pleinmont Solar 2 LLC	IPP	Pleinmont Solar 2	VA	62013	PLNM2	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2021	7	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	28.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	28.0
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	(T) Regulatory approvals received. 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	(T) Regulatory approvals received. Not under construction	20.0
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	8	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	8	63571	Azure Sky Solar Project, LLC	IPP	Azure Sky Solar	TX	63905	ASKYB	77.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	77.0
2021	8	56769	Consolidated Edison Development Inc.	IPP	Copper Mountain Solar 5, LLC	NV	63504	CM5-1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	61944	GSRP	IPP	Chevron - Lost Hills Hybrid	CA	63545	BESS1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2021	8	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
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	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	8	63519	Trent River Solar, LLC	IPP	Trent River Solar, LLC	NC	63842	PGR25	78.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	78.7
2021	9	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	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	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
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-1	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-2	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-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	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
2021	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
2021	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
2021	9	6455	Duke Energy Florida, LLC	Electric Utility	Jennings Energy Storage Facility	FL	63998	ES1	5.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.5
2021	9	6455	Duke Energy Florida, LLC	Electric Utility	Micanopy Energy Storage Facility	FL	63999	ES1	8.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	8.3
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	63638	Horseshoe Solar, LLC	IPP	Horseshoe Solar, LLC	UT	63984	HSS	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
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	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	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	63639	Rocket Solar, LLC	IPP	Rocket Solar, LLC	UT	63983	RS	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	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	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	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	9	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	9	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	9	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	9	63420	Taos Mesa Energy Facility, LLC	IPP	Taos Mesa Energy Facility Hybrid	NM	63728	BESS	12.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	12.0
2021	9	63420	Taos Mesa Energy Facility, LLC	IPP	Taos Mesa Energy Facility Hybrid	NM	63728	TMEF1	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2021	9	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	260.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	260.0
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	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	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	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	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	61060	Cypress Creek Renewables	IPP	Bay Tree	NC	63976	959	70.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.1
2021	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

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	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	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	10	63579	Illinois Winds LLC	IPP	Panther Creek Wind Project	IL	63907	WTGE	44.5	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	48.0
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	62780	RE Slate LLC	IPP	Slate Hybrid	CA	63727	SLATE	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2021	10	62780	RE Slate LLC	IPP	Slate Hybrid	CA	63727	SLBES	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	315.0
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	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	10	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	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 (Hybrid)	GA	63721	COOLS	213.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	213.0
2021	11	63414	Cool Springs Solar, LLC	IPP	Cool Springs Solar (Hybrid)	GA	63721	CSBAT	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2021	11	6455	Duke Energy Florida, LLC	Electric Utility	Duette Solar Power Plant	FL	63978	PV1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
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	56201	Engie North America	IPP	Iron Star Wind Project	KS	64003	WTG1	297.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	297.6
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 Hybrid	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 Hybrid	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	63539	SunEast Fairway Solar LLC	IPP	SunEast Fariway Solar Project	NY	63865	Q#848	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63551	SunEast Flat Hill Solar LLC	IPP	SunEast Flat Hill Solar Project	NY	63901	Q#865	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63537	SunEast Grassy Knoll Solar LLC	IPP	SunEast Grassy Knoll Solar Project	NY	63863	Q#885	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63540	SunEast Highview Solar LLC	IPP	SunEast Highview Solar Project	NY	63866	Q#591	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63543	SunEast Hilltop Solar LLC	IPP	SunEast Hilltop Solar Project	NY	63868	Q#807	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63538	SunEast Limestone Solar LLC	IPP	SunEast Limestone Solar Project	NY	63864	Q#806	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63536	SunEast Valley Solar LLC	IPP	SunEast Valley Solar Project	NY	63862	Q#828	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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 Hybrid	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	57416	Acciona Energy USA Global, LLC	IPP	High Point Solar LLC	IL	63838	HPS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	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
2021	12	60776	Aksamit Resource Management	IPP	Milligan III Wind Farm	NE	61159	M3001	73.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	73.4
2021	12	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center Hybrid	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 Hybrid	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 Hybrid	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 Hybrid	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 Hybrid	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 Hybrid	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
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

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	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	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	63578	Dodge Flat Solar, LLC	IPP	Dodge Flat	NV	63913	DODGE	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
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	6455	Duke Energy Florida, LLC	Electric Utility	Charlie Creek Solar Power Plant	FL	63982	PV1	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
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	63559	Edmondson Ranch Wind, LLC	IPP	Edmondson Ranch Wind, LLC	TX	63890	ERWE	293.3	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	293.3
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	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
2021	12	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	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	63345	Flodquist Community Solar LLC	IPP	Flodquist Community Solar LLC	MN	63650	TC3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
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	63553	Haymaker Energy Project LLC	IPP	Haymaker Hybrid	MT	63878	HBESS	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	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
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	63552	Key Capture Energy	IPP	TX17 Nickel Prairie Storage	TX	63880	TX17	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	63658	Long Beach Trigen, LLC	IPP	Toyota Long Beach Trigen	CA	64005	MMR-1	2.2	Other Waste Biomass	OBG	FC	(L) Regulatory approvals pending. Not under construction	2.8
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	Red Cloud Wind LLC	NM	63981	1	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
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	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
2021	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
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
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

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	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 Hybrid	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	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	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	63502	Partin Solar, LLC	IPP	Partin Solar	NC	63827	95	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
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	63612	Perquimans Solar LLC	IPP	Perquimans Solar LLC	NC	63955	PERQU	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	63552	Key Capture Energy	IPP	TX18 Cottage Meadow Storage	TX	63879	TX18	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	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
2022	4	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
2022	4	57416	Acciona Energy USA Global, LLC	IPP	Fort Bend Solar LLC	TX	63985	FBS	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
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	63575	Bluegrass Solar, LLC	IPP	Bluegrass Solar	MD	63910	BGS	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
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
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

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	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
2022	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
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	63556	Delilah Solar Energy II LLC	IPP	Delilah Solar Energy II LLC	TX	63884	GEN1	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
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	63524	Freepoint Commodities LLC	IPP	Raceway Solar	DE	63846	RACE	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
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	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
2022	6	63437	Helena Wind, LLC	IPP	Helena Wind	TX	63738	HEL	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
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	63515	Sparta Solar, LLC	IPP	Sparta Solar	TX	63840	1111	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
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	63525	Westlands Solar Blue, LLC	IPP	Solar Blue	CA	63848	SBLUE	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
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

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	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	Aratina Solar Center 1 Hybrid	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	8	60796	91MC 8me LLC	IPP	Aratina Solar Center 1 Hybrid	CA	61167	BESS	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
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
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	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM50	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2022	9	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM51	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2022	9	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM52	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
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	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
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	10	63541	SunEast Tabletop Solar LLC	IPP	SunEast Tabletop Solar Project	NY	63867	Q#869	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	KLOAB	30.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	30.0
2022	11	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	YKLOA	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2022	11	63526	Chestnut Westside, LLC	IPP	Chestnut	CA	63849	CHNUT	150.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.6
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	63494	Allora Solar, LLC	IPP	Allora Solar, LLC	SC	63808	PGR30	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
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	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
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	63504	Kruger Energy Mantura Solar, LLC	IPP	Kruger Energy Mantura Solar, LLC	VA	63822	KEMS	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
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 Hybrid	CO	63731	NT125	125.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	125.0
2022	12	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center Hybrid	CO	63731	NT325	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
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	63574	Otter Creek Solar LLC	IPP	Otter Creek Solar	VA	63909	OTTER	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0
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	63501	Panther Grove Wind, LLC	IPP	Panther Grove Wind, LLC	IL	63818	78787	400.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	400.0
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	Willowbrook Solar I, LLC	OH	63877	WBS	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
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 Hybrid	CO	63776	TW100	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0

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	12	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center Hybrid	CO	63776	TW300	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2022	12	63561	TransAlta Holdings U.S. Inc.	IPP	Tono Solar	WA	63902	TSPV1	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	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
2023	1	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
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	3	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
2023	3	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
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	63601	CPV Three Rivers, LLC	IPP	CPV Three Rivers Energy Center	IL	63931	GEN1	607.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	650.0
2023	5	63601	CPV Three Rivers, LLC	IPP	CPV Three Rivers Energy Center	IL	63931	GEN2	607.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	650.0
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
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	6	63520	Arida Solar	IPP	Arida Solar	NV	63841	ARIDA	370.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	370.0
2023	6	63557	Delilah Solar Energy III LLC	IPP	Delilah Solar Energy III LLC	TX	63885	GEN1	310.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	310.0
2023	6	63503	Hardin Solar Energy II LLC	IPP	Hardin Solar Energy II LLC	OH	63828	GEN1	170.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	170.0
2023	6	63554	Samson Solar Energy II LLC	IPP	Samson Solar Energy II LLC	TX	63882	GEN1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	6	63555	Samson Solar Energy III LLC	IPP	Samson Solar Energy III LLC	TX	63883	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
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	6	63527	Westlands Cherry, LLC	IPP	Cherry	CA	63850	CHERY	249.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	249.7
2023	6	63528	Westlands Grape, LLC	IPP	Grape	CA	63851	GRAPE	246.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	246.4
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

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	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	63553	Haymaker Energy Project LLC	IPP	Haymaker Hybrid	MT	63878	HAY	600.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	600.0
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	63603	Nevada Power Company DBA NV Energy	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLES1	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2023	12	63603	Nevada Power Company DBA NV Energy	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLPV1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
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
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
2023	12	63626	Two Rivers Wind LLC	IPP	Two Rivers Wind Facility	WY	63972	TR1	280.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	280.0
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	4	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP001	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	5	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP002	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	6	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP003	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	6	63576	MEC North	IPP	MEC North	MI	63911	MECN	500.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	500.0
2024	6	63577	MEC South	IPP	MEC South	MI	63912	MECS	500.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	500.0
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	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
2025	1	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
2025	1	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
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	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
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	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
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

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)
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	9	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN6	9.0	Natural Gas Fired Combined Cycle	NG	CT
2020	9	15474	Public Service Co of Oklahoma	Electric Utility	Oklaunion	TX	127	1	650.0	Conventional Steam Coal	SUB	ST
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	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	10	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2020	10	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	10	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
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	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
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	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	11	30151	Tri-State G & T Assn, Inc	Electric Utility	Escalante	NM	87	1	253.0	Conventional Steam Coal	SUB	ST
2020	12	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	3622	0.1	Petroleum Liquids	DFO	IC
2020	12	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6033	0.3	Petroleum Liquids	DFO	IC
2020	12	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6035	0.3	Petroleum Liquids	DFO	IC
2020	12	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6046	0.3	Petroleum Liquids	DFO	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
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
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	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	5	19876	Virginia Electric & Power Co	Electric Utility	Possum Point	VA	3804	5	786.0	Petroleum Liquids	RFO	ST
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

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
2021	6	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8	36.0	Natural Gas Fired Combined Cycle	NG	CA
2021	6	12628	GenOn Chalk Point, LLC	IPP	Chalk Point LLC	MD	1571	ST1	333.1	Conventional Steam Coal	BIT	ST
2021	6	12628	GenOn Chalk Point, LLC	IPP	Chalk Point LLC	MD	1571	ST2	336.9	Conventional Steam Coal	BIT	ST
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	6	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1367	0.6	Natural Gas Internal Combustion Engine	NG	IC
2021	6	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1391	0.6	Natural Gas Internal Combustion Engine	NG	IC
2021	6	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1392	0.6	Natural Gas Internal Combustion Engine	NG	IC
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	55951	Exelon Nuclear	IPP	Byron Generating Station	IL	6023	1	1,164.0	Nuclear	NUC	ST
2021	9	55951	Exelon Nuclear	IPP	Byron Generating Station	IL	6023	2	1,136.0	Nuclear	NUC	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	11	55951	Exelon Nuclear	IPP	Dresden Generating Station	IL	869	2	902.0	Nuclear	NUC	ST
2021	11	55951	Exelon Nuclear	IPP	Dresden Generating Station	IL	869	3	895.0	Nuclear	NUC	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	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	1	205.3	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
2021	12	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H4	0.5	Conventional Hydroelectric	WAT	HY
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
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
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 Combustion Turbine	NG	GT
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	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

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	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	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	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	1	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	5	336.0	Conventional Steam Coal	BIT	ST
2023	1	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	6	670.0	Conventional Steam Coal	BIT	ST
2023	1	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	3	790.0	Petroleum Liquids	RFO	ST
2023	3	50129	Georgia-Pacific Cons Op LLC Port Hudson	Industrial	Georgia-Pacific Port Hudson	LA	10612	GEN2	60.0	Natural Gas Steam Turbine	NG	ST
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
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

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	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
2024	1	335	Air Liquide Large Industries U.S. LP	Industrial	Geismar Cogen	LA	56787	GTG	72.5	Natural Gas Fired Combustion Turbine	NG	GT
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	1	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	870.0	Conventional Steam Coal	BIT	ST
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
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	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	4	257.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	5	259.0	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

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	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	9417	Interstate Power and Light Co	Electric Utility	Prairie Creek	IA	1073	1	2.9	Conventional Steam Coal	SUB	ST
2025	12	9417	Interstate Power and Light Co	Electric Utility	Prairie Creek	IA	1073	3	25.8	Conventional Steam Coal	SUB	ST
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	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
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

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
2026	10	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT1	17.5	Natural Gas Fired Combustion Turbine	NG	GT
2026	10	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT2	17.5	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	5416	Duke Energy Carolinas, LLC	Electric Utility	James E. Rogers Energy Complex	NC	2721	5	544.0	Conventional Steam Coal	BIT	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	1	19876	Virginia Electric & Power Co	Electric Utility	Altavista Power Station	VA	10773	1	51.0	Wood/Wood Waste Biomass	WDS	ST
2028	1	19876	Virginia Electric & Power Co	Electric Utility	Hopewell Power Station	VA	10771	1	51.0	Wood/Wood Waste Biomass	WDS	ST
2028	1	19876	Virginia Electric & Power Co	Electric Utility	Southampton Power Station	VA	10774	1	51.0	Wood/Wood Waste Biomass	WDS	ST
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
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

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	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
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO1	380.0	Conventional Steam Coal	RC	ST
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO2	382.0	Conventional Steam Coal	RC	ST
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	5416	Duke Energy Carolinas, LLC	Electric Utility	Marshall (NC)	NC	2727	1	370.0	Conventional Steam Coal	BIT	ST
2034	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Marshall (NC)	NC	2727	2	370.0	Conventional Steam Coal	BIT	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
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

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
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	57170	EDF Renewable Asset Holdings, Inc.	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	235,089.3	47.5%	266,846.5	57.3%	128,832.5	11.3%	72,797.3	14.1%	4,848.3	15.3%	11,214.7	12.8%	14,009.7	1.0%	5,287.8	2.0%
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	241,507.5	56.6%	261,918.1	54.6%	128,218.2	9.6%	73,728.3	8.4%	4,620.8	12.9%	11,347.1	12.8%	14,037.5	1.4%	5,285.8	2.0%
February	239,252.5	50.4%	261,918.1	55.8%	128,218.2	9.9%	73,730.3	6.9%	4,695.3	14.2%	11,347.1	12.5%	14,037.5	0.9%	5,287.8	1.9%
March	238,021.5	45.0%	261,601.1	51.0%	128,164.0	9.3%	73,188.3	9.3%	4,695.3	12.8%	11,347.1	11.8%	14,018.5	0.6%	5,287.4	1.7%
April	236,625.1	35.7%	264,436.4	45.8%	128,276.4	9.7%	73,191.0	10.9%	4,878.7	12.5%	11,201.1	10.9%	14,018.5	0.8%	5,283.2	1.7%
May	235,815.1	41.7%	265,631.1	49.2%	128,705.3	10.2%	73,191.0	13.7%	4,881.2	12.4%	11,201.1	16.4%	14,018.5	1.0%	5,290.0	1.9%
June	235,767.5	46.9%	268,823.5	59.9%	128,828.7	11.2%	72,899.9	16.7%	4,881.2	14.4%	11,201.1	15.6%	14,008.2	1.1%	5,289.2	1.9%
July	234,785.0	58.3%	269,658.1	70.5%	129,173.4	15.0%	72,853.9	24.9%	4,903.2	20.1%	11,201.1	17.5%	14,008.2	1.1%	5,293.9	2.1%
August	234,785.0	54.6%	269,658.1	71.6%	129,318.4	14.9%	72,853.9	26.1%	4,903.2	20.4%	11,201.1	16.7%	14,002.5	1.3%	5,292.1	2.2%
Sept	233,847.0	51.4%	269,658.1	64.2%	129,278.4	12.9%	72,853.9	19.8%	4,903.2	17.4%	11,134.1	14.4%	14,002.5	1.2%	5,292.6	2.4%
October	233,086.4	39.3%	269,110.5	54.5%	129,348.4	11.6%	72,211.9	14.6%	4,903.2	15.5%	11,134.1	8.8%	14,002.5	1.2%	5,292.1	2.3%
November	229,164.4	46.0%	269,670.1	52.2%	129,314.4	10.9%	72,038.9	8.7%	4,903.2	16.1%	11,134.1	7.6%	14,002.5	0.8%	5,292.9	2.0%
December	228,657.4	43.3%	269,766.0	57.4%	129,098.3	10.2%	70,909.4	8.4%	5,001.6	14.1%	11,134.1	8.6%	13,962.5	0.8%	5,267.4	2.1%
Year 2020																
January	226,644.4	39.1%	270,483.6	58.4%	129,100.1	8.9%	70,909.4	9.4%	4,929.1	10.9%	11,134.1	11.0%	13,962.5	1.0%	5,268.6	1.8%
February	226,601.9	36.4%	270,626.6	58.8%	129,186.5	9.2%	70,909.4	9.4%	5,019.5	11.4%	11,134.1	8.9%	13,938.5	0.8%	5,268.6	1.8%
March	225,736.5	30.9%	271,907.9	52.2%	129,114.4	9.7%	70,885.6	10.9%	5,023.9	13.1%	11,134.1	13.6%	13,706.5	0.8%	5,268.6	1.6%
April	225,756.5	25.5%	272,907.9	47.3%	129,111.6	8.0%	70,885.6	10.2%	5,119.1	10.8%	11,134.1	12.8%	13,706.5	0.6%	5,268.6	1.5%
May	224,526.7	28.5%	274,174.1	48.2%	129,099.6	9.0%	70,753.6	12.0%	5,157.5	11.3%	11,134.1	11.2%	13,706.5	0.8%	5,268.6	1.4%
June	223,559.6	41.4%	275,920.1	59.6%	129,036.0	13.7%	70,753.6	17.7%	5,150.2	15.1%	11,134.1	16.1%	13,706.5	1.7%	5,268.6	1.7%
July	223,559.6	55.2%	275,920.1	70.8%	129,122.0	22.4%	70,735.8	28.0%	5,150.2	21.4%	11,134.1	17.0%	13,706.5	3.5%	5,268.9	2.2%
August	223,040.6	56.0%	275,934.2	69.1%	129,214.8	17.1%	70,735.8	23.4%	5,150.2	20.6%	11,134.1	16.7%	13,706.5	2.2%	5,273.9	1.8%

Values for 2019 and prior years are final. Values for 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

	Geothermal		Hydroelectric		Nuclear		Other Biomass		Other Gas		Solar				Wind		Wood	
Year/Month											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	2,535.2	69.6%	79,838.0	41.2%	98,836.7	93.4%	4,786.5	62.5%	2,504.1	67.4%	31,840.8	24.3%	1,758.1	21.2%	97,564.8	34.3%	8,485.0	59.0%
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	2,527.5	73.9%	79,881.1	41.7%	99,440.4	99.6%	4,894.7	63.2%	2,509.0	68.2%	30,238.8	15.2%	1,758.1	8.4%	94,361.8	34.3%	8,716.6	62.0%
February	2,527.5	76.1%	79,883.6	42.6%	99,440.4	96.8%	4,894.7	62.3%	2,509.0	64.8%	30,911.4	17.7%	1,758.1	10.9%	95,284.6	35.2%	8,716.6	60.7%
March	2,527.5	75.6%	79,897.2	44.3%	99,440.4	88.0%	4,796.3	61.4%	2,509.0	61.6%	31,124.1	24.1%	1,758.1	19.8%	95,776.4	35.8%	8,565.9	57.6%
April	2,535.4	68.7%	79,897.2	48.4%	99,595.4	84.5%	4,785.1	59.9%	2,514.0	62.1%	31,355.0	28.4%	1,758.1	25.5%	96,608.9	41.5%	8,553.5	52.8%
May	2,535.4	71.1%	79,874.5	53.8%	98,921.8	90.8%	4,783.7	61.5%	2,514.0	67.6%	31,466.6	29.1%	1,758.1	25.7%	96,610.5	35.6%	8,538.5	54.1%
June	2,535.4	72.8%	79,878.4	48.8%	98,921.8	96.6%	4,764.2	64.2%	2,499.2	67.5%	31,528.4	32.9%	1,758.1	35.5%	96,840.0	31.8%	8,469.0	58.2%
July	2,535.4	72.9%	79,879.9	41.9%	98,921.8	98.1%	4,765.8	63.8%	2,499.2	68.5%	31,803.5	32.4%	1,758.1	31.4%	98,084.1	30.1%	8,498.4	61.4%
August	2,535.4	73.9%	79,776.1	38.0%	98,921.8	97.7%	4,765.9	64.4%	2,499.2	68.0%	32,079.8	31.0%	1,758.1	32.0%	98,359.7	27.0%	8,498.4	62.7%
Sept	2,535.4	74.9%	79,775.9	32.3%	98,119.0	93.1%	4,754.4	62.6%	2,499.2	72.4%	32,302.5	27.4%	1,758.1	24.3%	98,668.1	34.1%	8,409.1	59.2%
October	2,535.4	60.5%	79,772.0	30.8%	98,119.0	85.0%	4,754.4	61.5%	2,499.2	64.4%	32,556.1	23.3%	1,758.1	23.0%	99,662.8	37.1%	8,305.5	57.0%
November	2,535.4	53.3%	79,772.0	35.2%	98,119.0	90.8%	4,751.2	61.5%	2,499.2	71.6%	33,001.5	17.4%	1,758.1	11.3%	99,618.3	34.7%	8,305.5	60.2%
December	2,555.4	61.5%	79,772.0	36.2%	98,119.0	100.1%	4,735.4	63.7%	2,499.2	72.2%	33,658.4	12.8%	1,758.1	5.4%	100,729.8	34.8%	8,258.5	62.7%
Year 2020																		
January	2,555.4	65.8%	79,772.7	42.8%	98,137.0	101.6%	4,740.6	64.9%	2,507.2	70.7%	35,635.8	16.8%	1,758.1	8.1%	103,480.4	36.4%	8,374.5	61.6%
February	2,555.4	70.9%	79,772.3	47.5%	98,137.0	96.6%	4,741.2	62.6%	2,507.2	70.6%	36,831.1	21.4%	1,758.1	14.5%	104,173.7	40.1%	8,383.0	61.7%
March	2,555.4	79.1%	79,772.3	39.5%	98,137.0	87.7%	4,741.2	65.9%	2,507.2	61.6%	37,240.7	22.4%	1,758.1	14.6%	104,258.8	37.5%	8,383.0	58.5%
April	2,555.4	78.2%	79,772.3	38.2%	97,120.9	83.8%	4,741.2	64.4%	2,507.2	59.9%	37,459.8	28.2%	1,758.1	24.2%	105,867.0	38.4%	8,383.0	57.3%
May	2,555.4	75.7%	79,782.3	51.5%	97,120.9	89.0%	4,724.1	63.7%	2,507.2	62.9%	38,107.8	32.2%	1,758.1	31.5%	106,147.0	35.4%	8,383.0	57.4%
June	2,555.4	74.0%	79,782.3	50.7%	97,120.9	96.1%	4,659.2	60.4%	2,507.2	62.6%	38,491.6	32.4%	1,758.1	29.7%	107,006.4	38.5%	8,383.0	57.7%
July	2,555.4	74.9%	79,784.3	46.8%	97,120.9	96.0%	4,659.2	63.7%	2,507.2	66.5%	39,695.7	33.4%	1,758.1	33.2%	107,691.4	28.0%	8,383.0	57.3%
August	2,555.4	74.7%	79,810.4	40.8%	97,120.9	95.5%	4,659.2	64.4%	2,507.2	66.7%	40,109.6	29.5%	1,758.1	28.0%	107,893.4	28.0%	8,383.0	60.0%

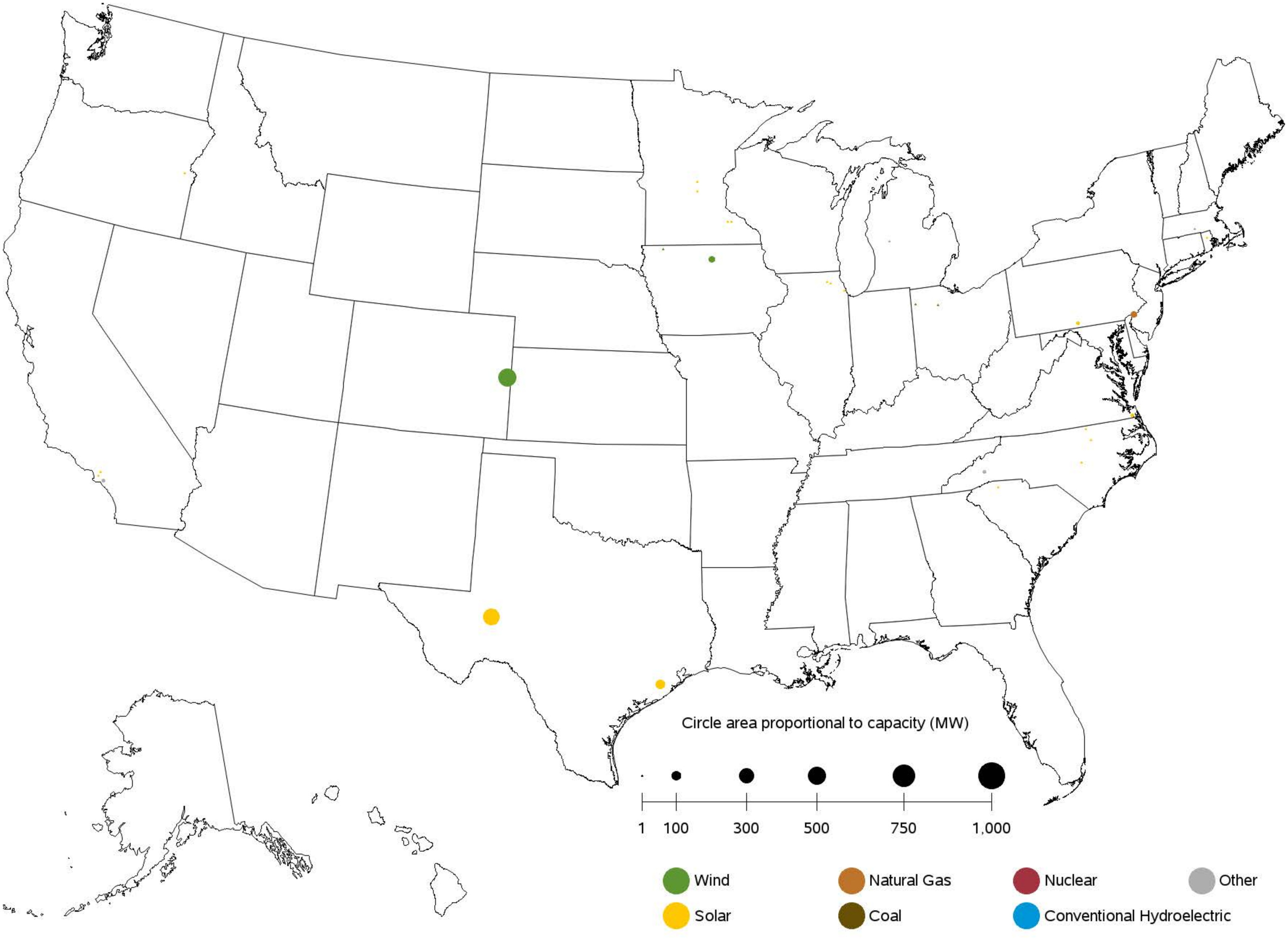
Values for 2019 and prior years are final. Values for 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for 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	949.8	5.4%	22,754.7	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	864.8	5.5%	22,721.3	9.3%
February	877.1	5.7%	22,721.3	9.2%
March	901.9	6.7%	22,721.3	8.3%
April	931.0	5.9%	22,721.3	10.2%
May	934.7	5.9%	22,721.3	11.8%
June	939.7	5.2%	22,778.3	11.7%
July	962.9	5.2%	22,778.3	15.1%
August	983.9	5.0%	22,778.3	13.7%
Sept	990.8	5.8%	22,778.3	12.4%
October	998.7	4.5%	22,778.3	8.3%
November	1,001.2	5.2%	22,778.3	7.2%
December	1,006.2	5.0%	22,778.3	7.8%
Year 2020				
January	1,008.8	4.0%	22,778.3	9.0%
February	1,024.7	4.5%	22,778.3	9.1%
March	1,032.2	4.9%	22,778.3	7.9%
April	1,047.0	4.1%	22,795.3	8.2%
May	1,056.9	3.9%	22,795.3	10.8%
June	1,060.8	4.1%	22,795.3	13.5%
July	1,064.4	4.0%	22,795.3	16.0%
August	1,317.2	3.6%	22,795.3	15.1%

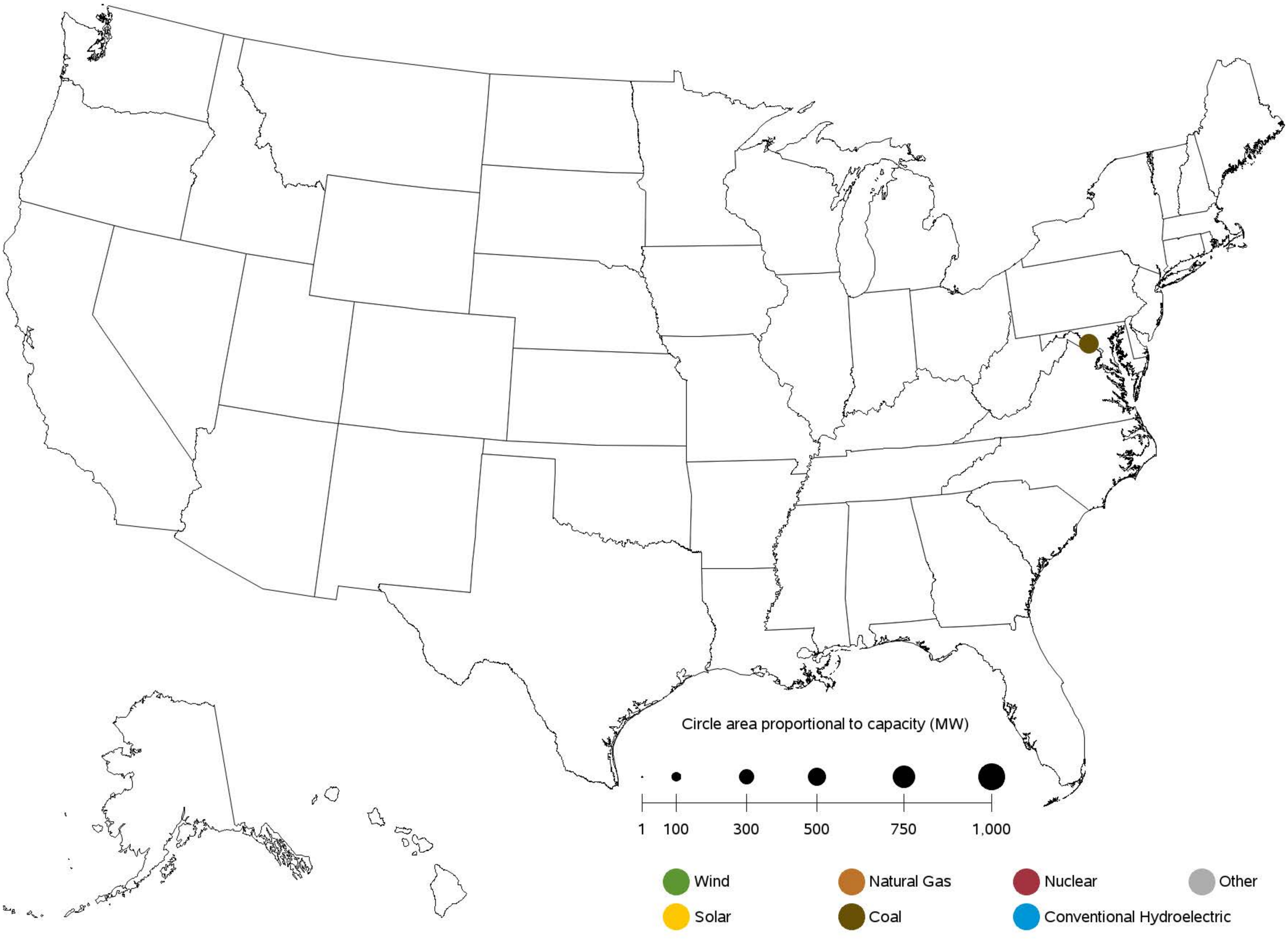
Values for 2019 and prior years are final. Values for 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for 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 August 2020



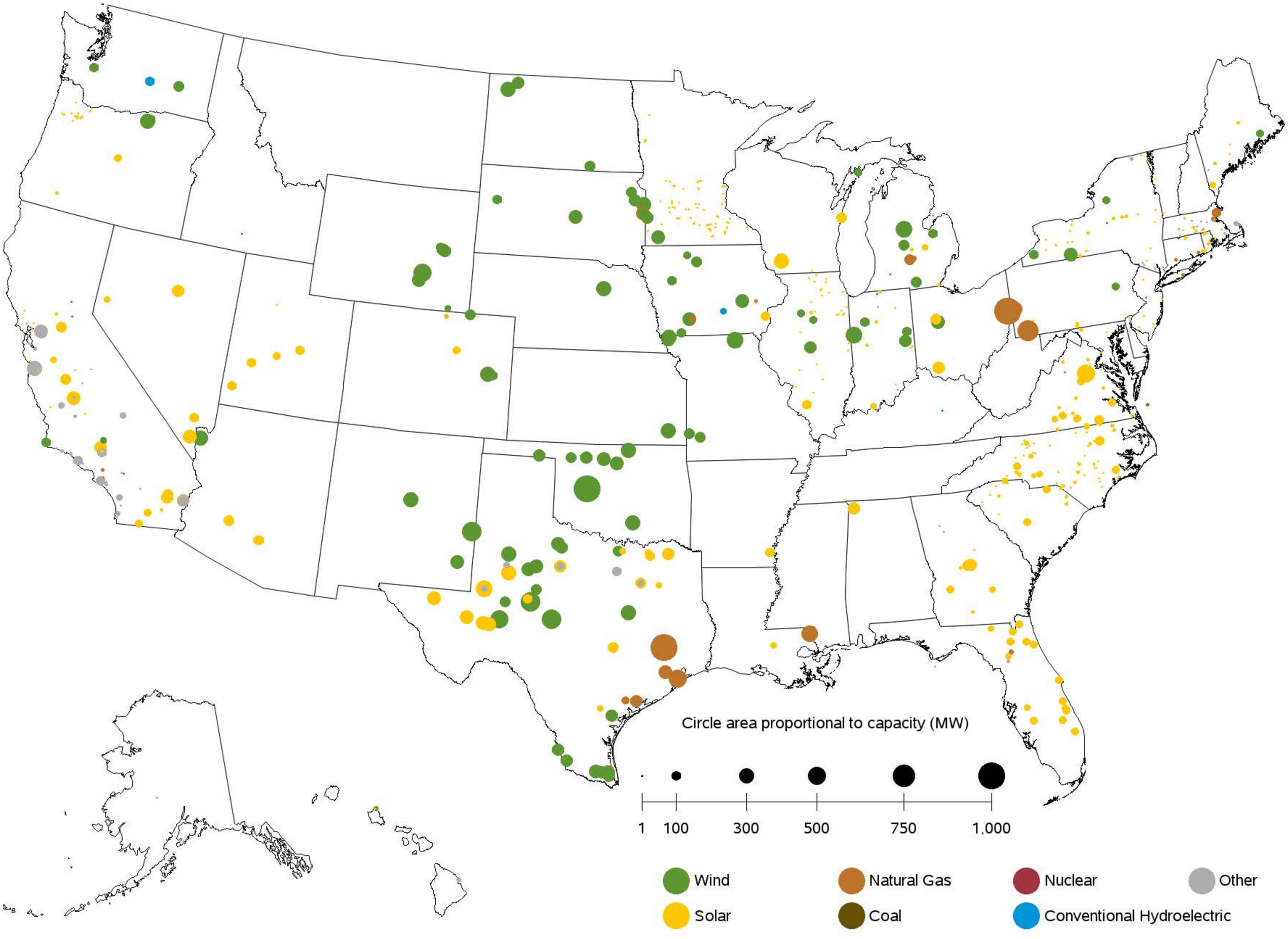
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



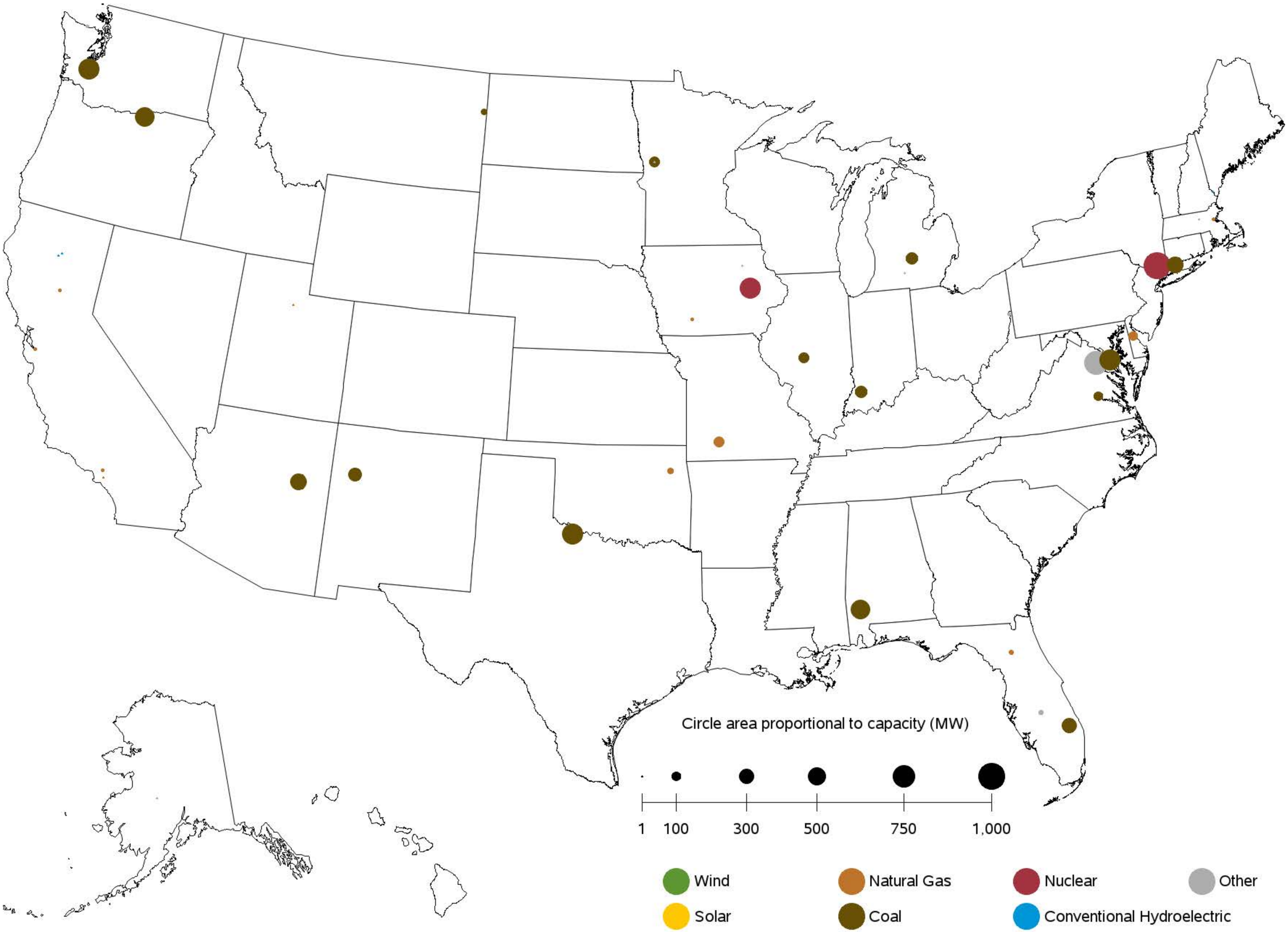
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from September 2020 to August 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 September 2020 to August 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
April	4,433,870	1,112,187	253,564	363,057	4,687,434	1,475,244	3,212,190
May	4,958,324	1,043,022	217,749	472,500	5,176,073	1,515,522	3,660,551
June	4,915,670	867,147	286,111	434,614	5,201,781	1,301,761	3,900,020

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 - August 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
2019	6,205	7,905	2,048	0	16,158
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	1,174
February	367	487	146	0	1,000
March	448	651	180	0	1,279
April	465	681	165	0	1,311
May	512	655	189	0	1,356
June	568	693	171	0	1,431
July	618	688	181	0	1,487
August	594	719	175	0	1,488
Sept	586	713	166	0	1,464
October	587	713	196	0	1,496
November	504	678	162	0	1,343
December	509	655	165	0	1,329
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	1,312
June	642	623	173	0	1,438
July	704	692	172	0	1,567
August	650	642	177	0	1,469
Year to Date					
2018	3,927	5,398	1,417	0	10,742
2019	4,019	5,147	1,360	0	10,526
2020	4,492	4,766	1,261	0	10,520
Rolling 12 Months Ending in August					
2019	6,195	7,952	2,071	0	16,219
2020	6,678	7,524	1,950	0	16,152

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 - August 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
2019	1,330	1,811	420	0	3,560
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	250
February	80	109	29	0	218
March	98	156	37	0	291
April	106	177	36	0	319
May	127	132	41	0	300
June	116	157	36	0	308
July	122	140	32	0	295
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
June	109	119	29	0	257
July	141	145	33	0	319
August	103	124	27	0	255
Year to Date					
2018	805	1,253	271	0	2,328
2019	866	1,179	279	0	2,324
2020	899	1,069	250	0	2,217
Rolling 12 Months Ending in August					
2019	1,326	1,819	414	0	3,559
2020	1,363	1,700	391	0	3,454

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 - August 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
2019	1,341,424	124,912	588	0	1,466,924
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	1,343,649	125,945	594	0	1,470,188
February	1,344,627	125,872	593	0	1,471,092
March	1,345,398	125,610	595	0	1,471,603
April	1,344,357	125,225	590	0	1,470,172
May	1,343,442	125,067	589	0	1,469,098
June	1,341,453	124,798	588	0	1,466,839
July	1,341,100	124,692	588	0	1,466,380
August	1,339,811	124,550	587	0	1,464,948
Sept	1,338,804	124,409	584	0	1,463,797
October	1,338,280	124,254	583	0	1,463,117
November	1,338,174	124,157	582	0	1,462,913
December	1,337,987	124,366	581	0	1,462,934
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
June	1,341,826	124,641	586	0	1,467,053
July	1,343,139	124,665	587	0	1,468,391
August	1,345,267	124,772	588	0	1,470,627
Rolling 12 Months Ending in August					
2019	1,345,083	125,677	593	0	1,471,353
2020	1,340,381	124,557	585	0	1,465,523

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 - August 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
2019	21.43	22.90	20.51	--	22.03
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	--	21.27
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	22.60	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	23.26	23.63	23.21	--	23.39
June	16.99	19.03	16.89	--	17.86
July	20.06	20.93	19.14	--	20.35
August	15.91	19.32	15.40	--	17.34
Year to Date					
2018	20.49	23.21	19.10	--	21.68
2019	21.54	22.91	20.51	--	22.08
2020	20.01	22.42	19.80	--	21.07
Rolling 12 Months Ending in August					
2019	21.41	22.88	19.96	--	21.95
2020	20.40	22.59	20.05	--	21.38

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-August 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	3,607	145	99	5,781
February	454	98	1,346	33	3,607	155	99	5,791
March	454	98	1,346	33	3,607	155	99	5,791
April	454	98	1,346	33	3,607	155	99	5,791
May	454	98	1,346	33	3,607	155	99	5,791
June	454	98	1,346	33	3,607	155	99	5,791
July	454	98	1,346	33	3,607	155	99	5,791
August	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, August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**19**	**23**	**0**	**2**	**0**	**0**	**13**
Connecticut	0	29	0	2	0	0	51
Maine	19	26	0	16	0	0	20
Massachusetts	0	41	0	4	0	0	33
New Hampshire	0	62	0	0	0	0	23
Rhode Island	0	125	0	8	0	0	0
Vermont	0	69	0	0	0	0	30
Middle Atlantic	**4**	**6**	**0**	**1**	**62**	**0**	**3**
New Jersey	0	29	0	2	0	0	0
New York	0	6	0	2	0	0	3
Pennsylvania	4	12	0	1	109	0	18
East North Central	**0**	**7**	**10**	**2**	**21**	**0**	**16**
Illinois	0	7	0	7	0	0	61
Indiana	0	3	0	3	42	0	51
Michigan	2	4	0	3	0	0	29
Ohio	1	10	22	2	68	0	47
Wisconsin	0	81	0	5	0	0	23
West North Central	**1**	**19**	**0**	**8**	**0**	**0**	**10**
Iowa	0	41	0	13	0	0	42
Kansas	0	10	0	16	0	0	0
Minnesota	2	36	0	13	0	0	37
Missouri	3	14	0	9	0	0	24
Nebraska	4	167	0	38	0	0	33
North Dakota	0	25	0	37	0	0	21
South Dakota	0	156	0	42	0	0	14
South Atlantic	**1**	**3**	**4**	**1**	**0**	**0**	**7**
Delaware	0	46	0	5	0	0	0
District of Columbia	0	0	0	19	0	0	0
Florida	0	7	0	0	0	0	77
Georgia	0	25	38	2	0	0	12
Maryland	0	8	0	2	0	0	0
North Carolina	0	5	0	1	0	0	13
South Carolina	0	7	0	1	0	0	16
Virginia	0	2	0	1	0	0	15
West Virginia	2	0	0	10	0	0	27
East South Central	**0**	**3**	**0**	**1**	**29**	**0**	**7**
Alabama	0	66	0	1	175	0	9
Kentucky	0	0	0	4	0	0	12
Mississippi	0	7	0	1	0	0	0
Tennessee	0	0	0	4	0	0	11
West South Central	**0**	**6**	**0**	**1**	**3**	**0**	**11**
Arkansas	0	6	0	4	0	0	15
Louisiana	0	43	0	1	7	0	33
Oklahoma	0	4	0	2	0	0	18
Texas	0	8	0	1	3	0	22
Mountain	**1**	**26**	**0**	**1**	**11**	**0**	**7**
Arizona	0	9	0	1	0	0	6
Colorado	0	84	0	2	0	0	28
Idaho	120	0	0	18	0	0	13
Montana	5	91	0	57	0	0	12
Nevada	0	0	0	1	0	0	4
New Mexico	0	42	0	2	0	0	103
Utah	0	3	0	2	0	0	42
Wyoming	3	1	0	10	11	0	38
Pacific Contiguous	**0**	**16**	**0**	**1**	**1**	**0**	**2**
California	0	14	0	1	1	0	4
Oregon	0	59	0	5	0	0	6
Washington	0	39	0	7	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**33**	**0**	**0**	**30**
Alaska	41	4	0	33	0	0	30
Hawaii	0	1	0	0	0	0	122
U.S. Total	**0**	**2**	**3**	**0**	**8**	**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, August 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**	**6**	**0**	**0**	**2**
Connecticut	0	0	0	13	12	0	0	1
Maine	0	0	0	76	9	0	0	8
Massachusetts	0	0	0	6	6	0	1	3
New Hampshire	0	0	0	0	22	0	0	2
Rhode Island	0	0	0	20	13	0	0	8
Vermont	0	0	0	16	16	0	0	18
Middle Atlantic	**0**	**0**	**0**	**5**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	6	4	0	0	1
New York	0	0	0	8	7	0	2	1
Pennsylvania	0	0	0	18	9	0	0	1
East North Central	**0**	**0**	**0**	**7**	**5**	**0**	**2**	**1**
Illinois	0	0	0	20	7	0	0	1
Indiana	0	0	0	11	10	0	0	1
Michigan	0	0	0	14	8	0	9	1
Ohio	0	0	0	17	7	0	0	1
Wisconsin	0	0	0	28	11	0	34	2
West North Central	**0**	**0**	**0**	**5**	**3**	**0**	**4**	**1**
Iowa	0	0	0	50	4	0	0	2
Kansas	0	0	0	16	2	0	0	1
Minnesota	0	0	0	5	6	0	4	3
Missouri	0	0	0	19	8	0	0	2
Nebraska	0	0	0	31	5	0	0	3
North Dakota	0	0	0	0	7	0	18	3
South Dakota	0	0	0	159	8	0	0	9
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	28	18	0	0	5
District of Columbia	0	0	0	65	19	0	0	15
Florida	0	0	0	1	1	0	0	0
Georgia	0	0	0	2	2	0	0	1
Maryland	0	0	0	8	11	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	3	0	0	1
Virginia	0	0	0	5	5	0	0	1
West Virginia	0	0	0	0	19	0	0	2
East South Central	**0**	**0**	**0**	**4**	**3**	**0**	**6**	**1**
Alabama	0	0	0	9	4	0	0	1
Kentucky	0	0	0	25	16	0	0	1
Mississippi	0	0	0	3	3	0	0	1
Tennessee	0	0	0	10	8	0	48	1
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**0**
Arkansas	0	0	0	4	6	0	0	1
Louisiana	0	0	0	167	7	0	0	1
Oklahoma	0	0	0	25	2	0	0	1
Texas	0	0	0	1	1	0	4	1
Mountain	**0**	**6**	**0**	**1**	**2**	**0**	**2**	**1**
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	2	0	0	1
Idaho	0	29	0	7	11	0	0	9
Montana	0	0	0	39	16	0	0	6
Nevada	0	6	0	2	3	0	0	1
New Mexico	0	0	0	5	3	0	0	1
Utah	0	15	0	4	4	0	20	1
Wyoming	0	0	0	0	12	0	0	3
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**1**	**1**
California	0	3	0	1	1	0	2	1
Oregon	0	22	0	6	5	0	0	3
Washington	0	0	0	34	8	0	0	2
Pacific Noncontiguous	**0**	**52**	**0**	**7**	**11**	**0**	**0**	**7**
Alaska	0	0	0	0	55	0	0	17
Hawaii	0	52	0	7	11	0	0	2
U.S. Total	**0**	**3**	**0**	**1**	**1**	**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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**19**	**23**	**0**	**2**	**0**	**0**	**13**
Connecticut	0	29	0	2	0	0	51
Maine	19	26	0	16	0	0	20
Massachusetts	0	41	0	4	0	0	33
New Hampshire	0	62	0	0	0	0	23
Rhode Island	0	125	0	8	0	0	0
Vermont	0	69	0	0	0	0	30
Middle Atlantic	**4**	**6**	**0**	**1**	**62**	**0**	**3**
New Jersey	0	29	0	2	0	0	0
New York	0	6	0	2	0	0	3
Pennsylvania	4	12	0	1	109	0	18
East North Central	**0**	**7**	**10**	**2**	**21**	**0**	**16**
Illinois	0	7	0	7	0	0	61
Indiana	0	3	0	3	42	0	51
Michigan	2	4	0	3	0	0	29
Ohio	1	10	22	2	68	0	47
Wisconsin	0	81	0	5	0	0	23
West North Central	**1**	**19**	**0**	**8**	**0**	**0**	**10**
Iowa	0	41	0	13	0	0	42
Kansas	0	10	0	16	0	0	0
Minnesota	2	36	0	13	0	0	37
Missouri	3	14	0	9	0	0	24
Nebraska	4	167	0	38	0	0	33
North Dakota	0	25	0	37	0	0	21
South Dakota	0	156	0	42	0	0	14
South Atlantic	**1**	**3**	**4**	**1**	**0**	**0**	**7**
Delaware	0	46	0	5	0	0	0
District of Columbia	0	0	0	19	0	0	0
Florida	0	7	0	0	0	0	77
Georgia	0	25	38	2	0	0	12
Maryland	0	8	0	2	0	0	0
North Carolina	0	5	0	1	0	0	13
South Carolina	0	7	0	1	0	0	16
Virginia	0	2	0	1	0	0	15
West Virginia	2	0	0	10	0	0	27
East South Central	**0**	**3**	**0**	**1**	**29**	**0**	**7**
Alabama	0	66	0	1	175	0	9
Kentucky	0	0	0	4	0	0	12
Mississippi	0	7	0	1	0	0	0
Tennessee	0	0	0	4	0	0	11
West South Central	**0**	**6**	**0**	**1**	**3**	**0**	**11**
Arkansas	0	6	0	4	0	0	15
Louisiana	0	43	0	1	7	0	33
Oklahoma	0	4	0	2	0	0	18
Texas	0	8	0	1	3	0	22
Mountain	**1**	**26**	**0**	**1**	**11**	**0**	**7**
Arizona	0	9	0	1	0	0	6
Colorado	0	84	0	2	0	0	28
Idaho	120	0	0	18	0	0	13
Montana	5	91	0	57	0	0	12
Nevada	0	0	0	1	0	0	4
New Mexico	0	42	0	2	0	0	103
Utah	0	3	0	2	0	0	42
Wyoming	3	1	0	10	11	0	38
Pacific Contiguous	**0**	**16**	**0**	**1**	**1**	**0**	**2**
California	0	14	0	1	1	0	4
Oregon	0	59	0	5	0	0	6
Washington	0	39	0	7	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**33**	**0**	**0**	**30**
Alaska	41	4	0	33	0	0	30
Hawaii	0	1	0	0	0	0	122
U.S. Total	**0**	**2**	**3**	**0**	**8**	**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 August 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**	**6**	**0**	**0**	**2**
Connecticut	0	0	0	13	12	0	0	1
Maine	0	0	0	76	9	0	0	8
Massachusetts	0	0	0	6	6	0	1	3
New Hampshire	0	0	0	0	22	0	0	2
Rhode Island	0	0	0	20	13	0	0	8
Vermont	0	0	0	16	16	0	0	18
Middle Atlantic	**0**	**0**	**0**	**5**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	6	4	0	0	1
New York	0	0	0	8	7	0	2	1
Pennsylvania	0	0	0	18	9	0	0	1
East North Central	**0**	**0**	**0**	**7**	**5**	**0**	**2**	**1**
Illinois	0	0	0	20	7	0	0	1
Indiana	0	0	0	11	10	0	0	1
Michigan	0	0	0	14	8	0	9	1
Ohio	0	0	0	17	7	0	0	1
Wisconsin	0	0	0	28	11	0	34	2
West North Central	**0**	**0**	**0**	**5**	**3**	**0**	**4**	**1**
Iowa	0	0	0	50	4	0	0	2
Kansas	0	0	0	16	2	0	0	1
Minnesota	0	0	0	5	6	0	4	3
Missouri	0	0	0	19	8	0	0	2
Nebraska	0	0	0	31	5	0	0	3
North Dakota	0	0	0	0	7	0	18	3
South Dakota	0	0	0	159	8	0	0	9
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	28	18	0	0	5
District of Columbia	0	0	0	65	19	0	0	15
Florida	0	0	0	1	1	0	0	0
Georgia	0	0	0	2	2	0	0	1
Maryland	0	0	0	8	11	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	3	0	0	1
Virginia	0	0	0	5	5	0	0	1
West Virginia	0	0	0	0	19	0	0	2
East South Central	**0**	**0**	**0**	**4**	**3**	**0**	**6**	**1**
Alabama	0	0	0	9	4	0	0	1
Kentucky	0	0	0	25	16	0	0	1
Mississippi	0	0	0	3	3	0	0	1
Tennessee	0	0	0	10	8	0	48	1
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**0**
Arkansas	0	0	0	4	6	0	0	1
Louisiana	0	0	0	167	7	0	0	1
Oklahoma	0	0	0	25	2	0	0	1
Texas	0	0	0	1	1	0	4	1
Mountain	**0**	**6**	**0**	**1**	**2**	**0**	**2**	**1**
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	2	0	0	1
Idaho	0	29	0	7	11	0	0	9
Montana	0	0	0	39	16	0	0	6
Nevada	0	6	0	2	3	0	0	1
New Mexico	0	0	0	5	3	0	0	1
Utah	0	15	0	4	4	0	20	1
Wyoming	0	0	0	0	12	0	0	3
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**1**	**1**
California	0	3	0	1	1	0	2	1
Oregon	0	22	0	6	5	0	0	3
Washington	0	0	0	34	8	0	0	2
Pacific Noncontiguous	**0**	**52**	**0**	**7**	**11**	**0**	**0**	**7**
Alaska	0	0	0	0	55	0	0	17
Hawaii	0	52	0	7	11	0	0	2
U.S. Total	**0**	**3**	**0**	**1**	**1**	**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.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, August 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	1	2	0	.	1
Massachusetts	0	0	1	.	0
New Hampshire	0	1	0	.	0
Rhode Island	0	0	0	.	0
Vermont	2	8	28	.	3
Middle Atlantic	**0**	**0**	**1**	**.**	**0**
New Jersey	0	0	1	.	0
New York	0	0	1	.	0
Pennsylvania	0	1	0	.	0
East North Central	**1**	**2**	**1**	**.**	**1**
Illinois	2	2	0	.	1
Indiana	4	2	6	.	2
Michigan	3	9	5	.	3
Ohio	4	3	0	.	2
Wisconsin	7	8	1	.	5
West North Central	**1**	**1**	**2**	**.**	**1**
Iowa	2	1	11	.	1
Kansas	4	3	0	.	3
Minnesota	2	2	2	.	1
Missouri	1	1	3	.	1
Nebraska	6	13	15	.	5
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**1**	**2**	**.**	**1**
Delaware	3	2	23	.	3
District of Columbia	0	0	0	.	0
Florida	2	3	2	.	2
Georgia	92	23	0	.	55
Maryland	1	1	1	.	1
North Carolina	3	2	0	.	2
South Carolina	3	4	0	.	2
Virginia	5	2	2	.	3
West Virginia	4	0	0	.	3
East South Central	**4**	**3**	**0**	**.**	**3**
Alabama	0	0	0	.	0
Kentucky	5	3	0	.	4
Mississippi	12	7	0	.	7
Tennessee	0	0	0	.	0
West South Central	**2**	**5**	**11**	**.**	**2**
Arkansas	9	12	12	.	6
Louisiana	2	5	37	.	2
Oklahoma	11	12	0	.	9
Texas	3	6	57	.	3
Mountain	**0**	**0**	**0**	**.**	**0**
Arizona	0	0	0	.	0
Colorado	1	1	7	.	1
Idaho	1	3	0	.	1
Montana	2	2	0	.	2
Nevada	0	0	0	.	0
New Mexico	1	1	13	.	1
Utah	0	1	0	.	0
Wyoming	4	11	14	.	4
Pacific Contiguous	**0**	**0**	**0**	**.**	**0**
California	0	0	0	.	0
Oregon	1	0	3	.	0
Washington	1	1	13	.	1
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	1	2	0	.	1
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, August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**32**	**0**	**44**	**0**	**0**	**32**
Connecticut	0	34	0	0	0	0	315
Maine	0	0	0	0	0	0	476
Massachusetts	0	80	0	49	0	0	62
New Hampshire	0	26	0	0	0	0	60
Rhode Island	0	0	0	0	0	0	0
Vermont	0	69	0	0	0	0	48
Middle Atlantic	**0**	**8**	**0**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	71	0	0	0
New York	0	8	0	4	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**9**	**0**	**4**	**0**	**0**	**17**
Illinois	0	40	0	18	0	0	67
Indiana	0	3	0	7	0	0	51
Michigan	2	4	0	9	0	0	31
Ohio	5	29	0	7	0	0	60
Wisconsin	0	82	0	6	0	0	24
West North Central	**1**	**20**	**0**	**9**	**0**	**0**	**10**
Iowa	0	42	0	14	0	0	42
Kansas	0	10	0	16	0	0	0
Minnesota	2	54	0	16	0	0	43
Missouri	3	14	0	12	0	0	24
Nebraska	4	167	0	38	0	0	33
North Dakota	0	26	0	38	0	0	21
South Dakota	0	156	0	42	0	0	14
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	4	0	0	0	0	77
Georgia	0	16	0	2	0	0	12
Maryland	0	117	0	0	0	0	0
North Carolina	0	4	0	1	0	0	13
South Carolina	0	8	0	1	0	0	16
Virginia	0	3	0	2	0	0	15
West Virginia	0	0	0	0	0	0	42
East South Central	**0**	**0**	**0**	**1**	**0**	**0**	**7**
Alabama	0	15	0	4	0	0	9
Kentucky	0	0	0	4	0	0	12
Mississippi	0	7	0	1	0	0	0
Tennessee	0	0	0	4	0	0	11
West South Central	**0**	**7**	**0**	**1**	**0**	**0**	**11**
Arkansas	0	5	0	4	0	0	15
Louisiana	0	43	0	2	0	0	0
Oklahoma	0	4	0	3	0	0	18
Texas	0	8	0	3	0	0	22
Mountain	**1**	**27**	**0**	**1**	**0**	**0**	**7**
Arizona	0	9	0	1	0	0	6
Colorado	0	84	0	2	0	0	31
Idaho	0	0	0	18	0	0	13
Montana	0	838	0	66	0	0	13
Nevada	0	0	0	1	0	0	0
New Mexico	0	42	0	3	0	0	103
Utah	0	3	0	2	0	0	42
Wyoming	3	1	0	13	0	0	39
Pacific Contiguous	**0**	**24**	**0**	**3**	**0**	**0**	**2**
California	0	28	0	1	0	0	4
Oregon	0	59	0	10	0	0	6
Washington	0	67	0	10	0	0	1
Pacific Noncontiguous	**73**	**2**	**0**	**34**	**0**	**0**	**32**
Alaska	73	4	0	34	0	0	32
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**2**

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

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

Electric Utilities by Census Division and State, August 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**	**17**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	33
Maine	0	0	0	0	0	0	0	476
Massachusetts	0	0	0	24	37	0	0	33
New Hampshire	0	0	0	0	0	0	0	57
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	29	19	0	0	24
Middle Atlantic	**0**	**0**	**0**	**23**	**23**	**0**	**0**	**2**
New Jersey	0	0	0	23	23	0	0	25
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**12**	**10**	**0**	**21**	**1**
Illinois	0	0	0	40	19	0	0	11
Indiana	0	0	0	16	9	0	0	1
Michigan	0	0	0	14	15	0	0	2
Ohio	0	0	0	76	136	0	0	5
Wisconsin	0	0	0	85	19	0	23	2
West North Central	**0**	**0**	**0**	**35**	**4**	**0**	**4**	**1**
Iowa	0	0	0	71	4	0	0	2
Kansas	0	0	0	159	8	0	0	1
Minnesota	0	0	0	121	15	0	0	3
Missouri	0	0	0	47	27	0	0	2
Nebraska	0	0	0	91	39	0	0	4
North Dakota	0	0	0	0	12	0	18	3
South Dakota	0	0	0	0	35	0	0	11
South Atlantic	**0**	**0**	**0**	**1**	**3**	**0**	**0**	**0**
Delaware	0	0	0	83	83	0	0	8
Florida	0	0	0	0	0	0	0	0
Georgia	0	0	0	7	7	0	0	1
Maryland	0	0	0	72	72	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	85	20	0	0	1
Virginia	0	0	0	7	13	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**22**	**14**	**0**	**0**	**1**
Alabama	0	0	0	42	42	0	0	1
Kentucky	0	0	0	26	14	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	221	221	0	0	1
West South Central	**0**	**0**	**0**	**23**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	169	169	0	0	2
Louisiana	0	0	0	167	167	0	0	1
Oklahoma	0	0	0	25	10	0	0	2
Texas	0	0	0	59	10	0	0	2
Mountain	**0**	**25**	**0**	**6**	**6**	**0**	**13**	**1**
Arizona	0	0	0	7	7	0	0	0
Colorado	0	0	0	83	3	0	0	1
Idaho	0	0	0	0	64	0	0	11
Montana	0	0	0	0	60	0	0	12
Nevada	0	0	0	7	7	0	0	1
New Mexico	0	0	0	12	12	0	0	1
Utah	0	25	0	0	25	0	20	1
Wyoming	0	0	0	0	21	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**10**	**6**	**0**	**0**	**1**
California	0	0	0	10	4	0	0	1
Oregon	0	0	0	90	6	0	0	4
Washington	0	0	0	0	11	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**22**	**37**	**0**	**0**	**10**
Alaska	0	0	0	0	90	0	0	19
Hawaii	0	0	0	22	17	0	0	2
U.S. Total	**0**	**4**	**0**	**1**	**3**	**0**	**3**	**0**

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

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

Electric Utilities by Census Division and State, Year-to-Date through August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**32**	**0**	**44**	**0**	**0**	**32**
Connecticut	0	34	0	0	0	0	315
Maine	0	0	0	0	0	0	476
Massachusetts	0	80	0	49	0	0	62
New Hampshire	0	26	0	0	0	0	60
Rhode Island	0	0	0	0	0	0	0
Vermont	0	69	0	0	0	0	48
Middle Atlantic	**0**	**8**	**0**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	71	0	0	0
New York	0	8	0	4	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**9**	**0**	**4**	**0**	**0**	**17**
Illinois	0	40	0	18	0	0	67
Indiana	0	3	0	7	0	0	51
Michigan	2	4	0	9	0	0	31
Ohio	5	29	0	7	0	0	60
Wisconsin	0	82	0	6	0	0	24
West North Central	**1**	**20**	**0**	**9**	**0**	**0**	**10**
Iowa	0	42	0	14	0	0	42
Kansas	0	10	0	16	0	0	0
Minnesota	2	54	0	16	0	0	43
Missouri	3	14	0	12	0	0	24
Nebraska	4	167	0	38	0	0	33
North Dakota	0	26	0	38	0	0	21
South Dakota	0	156	0	42	0	0	14
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	4	0	0	0	0	77
Georgia	0	16	0	2	0	0	12
Maryland	0	117	0	0	0	0	0
North Carolina	0	4	0	1	0	0	13
South Carolina	0	8	0	1	0	0	16
Virginia	0	3	0	2	0	0	15
West Virginia	0	0	0	0	0	0	42
East South Central	**0**	**0**	**0**	**1**	**0**	**0**	**7**
Alabama	0	15	0	4	0	0	9
Kentucky	0	0	0	4	0	0	12
Mississippi	0	7	0	1	0	0	0
Tennessee	0	0	0	4	0	0	11
West South Central	**0**	**7**	**0**	**1**	**0**	**0**	**11**
Arkansas	0	5	0	4	0	0	15
Louisiana	0	43	0	2	0	0	0
Oklahoma	0	4	0	3	0	0	18
Texas	0	8	0	3	0	0	22
Mountain	**1**	**27**	**0**	**1**	**0**	**0**	**7**
Arizona	0	9	0	1	0	0	6
Colorado	0	84	0	2	0	0	31
Idaho	0	0	0	18	0	0	13
Montana	0	838	0	66	0	0	13
Nevada	0	0	0	1	0	0	0
New Mexico	0	42	0	3	0	0	103
Utah	0	3	0	2	0	0	42
Wyoming	3	1	0	13	0	0	39
Pacific Contiguous	**0**	**24**	**0**	**3**	**0**	**0**	**2**
California	0	28	0	1	0	0	4
Oregon	0	59	0	10	0	0	6
Washington	0	67	0	10	0	0	1
Pacific Noncontiguous	**73**	**2**	**0**	**34**	**0**	**0**	**32**
Alaska	73	4	0	34	0	0	32
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**2**

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

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

Electric Utilities by Census Division and State, Year-to-Date through August 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**	**17**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	33
Maine	0	0	0	0	0	0	0	476
Massachusetts	0	0	0	24	37	0	0	33
New Hampshire	0	0	0	0	0	0	0	57
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	29	19	0	0	24
Middle Atlantic	**0**	**0**	**0**	**23**	**23**	**0**	**0**	**2**
New Jersey	0	0	0	23	23	0	0	25
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**12**	**10**	**0**	**21**	**1**
Illinois	0	0	0	40	19	0	0	11
Indiana	0	0	0	16	9	0	0	1
Michigan	0	0	0	14	15	0	0	2
Ohio	0	0	0	76	136	0	0	5
Wisconsin	0	0	0	85	19	0	23	2
West North Central	**0**	**0**	**0**	**35**	**4**	**0**	**4**	**1**
Iowa	0	0	0	71	4	0	0	2
Kansas	0	0	0	159	8	0	0	1
Minnesota	0	0	0	121	15	0	0	3
Missouri	0	0	0	47	27	0	0	2
Nebraska	0	0	0	91	39	0	0	4
North Dakota	0	0	0	0	12	0	18	3
South Dakota	0	0	0	0	35	0	0	11
South Atlantic	**0**	**0**	**0**	**1**	**3**	**0**	**0**	**0**
Delaware	0	0	0	83	83	0	0	8
Florida	0	0	0	0	0	0	0	0
Georgia	0	0	0	7	7	0	0	1
Maryland	0	0	0	72	72	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	85	20	0	0	1
Virginia	0	0	0	7	13	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**22**	**14**	**0**	**0**	**1**
Alabama	0	0	0	42	42	0	0	1
Kentucky	0	0	0	26	14	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	221	221	0	0	1
West South Central	**0**	**0**	**0**	**23**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	169	169	0	0	2
Louisiana	0	0	0	167	167	0	0	1
Oklahoma	0	0	0	25	10	0	0	2
Texas	0	0	0	59	10	0	0	2
Mountain	**0**	**25**	**0**	**6**	**6**	**0**	**13**	**1**
Arizona	0	0	0	7	7	0	0	0
Colorado	0	0	0	83	3	0	0	1
Idaho	0	0	0	0	64	0	0	11
Montana	0	0	0	0	60	0	0	12
Nevada	0	0	0	7	7	0	0	1
New Mexico	0	0	0	12	12	0	0	1
Utah	0	25	0	0	25	0	20	1
Wyoming	0	0	0	0	21	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**10**	**6**	**0**	**0**	**1**
California	0	0	0	10	4	0	0	1
Oregon	0	0	0	90	6	0	0	4
Washington	0	0	0	0	11	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**22**	**37**	**0**	**0**	**10**
Alaska	0	0	0	0	90	0	0	19
Hawaii	0	0	0	22	17	0	0	2
U.S. Total	**0**	**4**	**0**	**1**	**3**	**0**	**3**	**0**

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

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

Independent Power Producers by Census Division and State, August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**30**	**0**	**2**	**0**	**0**	**14**
Connecticut	0	33	0	2	0	0	51
Maine	0	21	0	22	0	0	20
Massachusetts	0	52	0	4	0	0	39
New Hampshire	0	840	0	0	0	0	24
Rhode Island	0	131	0	8	0	0	0
Vermont	0	0	0	0	0	0	37
Middle Atlantic	**4**	**8**	**0**	**1**	**0**	**0**	**13**
New Jersey	0	32	0	2	0	0	0
New York	0	9	0	2	0	0	16
Pennsylvania	4	13	0	1	0	0	18
East North Central	**0**	**7**	**23**	**2**	**20**	**0**	**47**
Illinois	0	5	0	7	0	0	88
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	105
Ohio	0	10	23	2	100	0	74
Wisconsin	0	0	0	0	0	0	96
West North Central	**0**	**163**	**0**	**14**	**0**	**0**	**74**
Iowa	0	62	0	2,315	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	306	0	25	0	0	85
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**6**	**8**	**0**	**2**	**0**	**0**	**19**
Delaware	0	48	0	6	0	0	0
Florida	0	38	0	5	0	0	0
Georgia	0	89	0	5	0	0	303
Maryland	0	8	0	3	0	0	0
North Carolina	0	76	0	5	0	0	90
South Carolina	0	0	0	12	0	0	124
Virginia	0	8	0	2	0	0	66
West Virginia	9	0	0	13	0	0	47
East South Central	**0**	**113**	**0**	**0**	**0**	**0**	**359**
Alabama	0	175	0	0	0	0	0
Kentucky	0	0	0	0	0	0	359
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**7**	**0**	**1**	**0**	**0**	**31**
Arkansas	0	0	0	0	0	0	57
Louisiana	0	0	0	6	0	0	33
Oklahoma	0	0	0	0	0	0	0
Texas	0	23	0	1	0	0	0
Mountain	**4**	**32**	**0**	**3**	**0**	**0**	**33**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	8	0	0	75
Idaho	0	0	0	40	0	0	43
Montana	5	60	0	52	0	0	96
Nevada	0	0	0	0	0	0	96
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**3**	**0**	**1**	**0**	**0**	**21**
California	0	0	0	1	0	0	23
Oregon	0	0	0	2	0	0	77
Washington	0	8	0	11	0	0	64
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	38	103	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**15**	**1**	**10**	**0**	**9**

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, August 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**	**7**	**0**	**0**	**2**
Connecticut	0	0	0	13	12	0	0	1
Maine	0	0	0	76	13	0	0	10
Massachusetts	0	0	0	6	6	0	1	3
New Hampshire	0	0	0	0	22	0	0	2
Rhode Island	0	0	0	20	14	0	0	8
Vermont	0	0	0	20	26	0	0	25
Middle Atlantic	**0**	**0**	**0**	**5**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	8	7	0	0	1
Pennsylvania	0	0	0	19	10	0	0	1
East North Central	**0**	**0**	**0**	**9**	**5**	**0**	**10**	**1**
Illinois	0	0	0	20	7	0	0	1
Indiana	0	0	0	15	11	0	0	2
Michigan	0	0	0	27	10	0	16	2
Ohio	0	0	0	18	8	0	0	1
Wisconsin	0	0	0	30	12	0	0	1
West North Central	**0**	**0**	**0**	**5**	**3**	**0**	**0**	**3**
Iowa	0	0	0	68	9	0	0	8
Kansas	0	0	0	16	2	0	0	2
Minnesota	0	0	0	5	6	0	0	8
Missouri	0	0	0	21	9	0	0	5
Nebraska	0	0	0	33	5	0	0	5
North Dakota	0	0	0	0	7	0	0	7
South Dakota	0	0	0	159	8	0	0	8
South Atlantic	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**1**
Delaware	0	0	0	30	20	0	0	6
District of Columbia	0	0	0	65	65	0	0	65
Florida	0	0	0	3	3	0	0	3
Georgia	0	0	0	2	2	0	0	4
Maryland	0	0	0	8	11	0	0	1
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	5	0	0	5
Virginia	0	0	0	7	7	0	0	2
West Virginia	0	0	0	0	19	0	0	8
East South Central	**0**	**0**	**0**	**4**	**5**	**0**	**0**	**0**
Alabama	0	0	0	9	8	0	0	0
Kentucky	0	0	0	164	42	0	0	5
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	10	14	0	0	13
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Arkansas	0	0	0	5	6	0	0	1
Louisiana	0	0	0	0	17	0	0	8
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	1	1	0	0	0
Mountain	**0**	**7**	**0**	**1**	**2**	**0**	**0**	**2**
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	3	0	0	3
Idaho	0	29	0	7	13	0	0	16
Montana	0	0	0	39	17	0	0	5
Nevada	0	7	0	2	3	0	0	2
New Mexico	0	0	0	5	3	0	0	2
Utah	0	19	0	4	4	0	0	4
Wyoming	0	0	0	0	17	0	0	13
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**1**
California	0	3	0	1	1	0	0	1
Oregon	0	22	0	6	7	0	0	3
Washington	0	0	0	34	15	0	0	5
Pacific Noncontiguous	**0**	**52**	**0**	**7**	**14**	**0**	**0**	**5**
Alaska	0	0	0	0	122	0	0	37
Hawaii	0	52	0	7	14	0	0	4
U.S. Total	**0**	**3**	**0**	**1**	**1**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**30**	**0**	**2**	**0**	**0**	**14**
Connecticut	0	33	0	2	0	0	51
Maine	0	21	0	22	0	0	20
Massachusetts	0	52	0	4	0	0	39
New Hampshire	0	840	0	0	0	0	24
Rhode Island	0	131	0	8	0	0	0
Vermont	0	0	0	0	0	0	37
Middle Atlantic	**4**	**8**	**0**	**1**	**0**	**0**	**13**
New Jersey	0	32	0	2	0	0	0
New York	0	9	0	2	0	0	16
Pennsylvania	4	13	0	1	0	0	18
East North Central	**0**	**7**	**23**	**2**	**20**	**0**	**47**
Illinois	0	5	0	7	0	0	88
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	105
Ohio	0	10	23	2	100	0	74
Wisconsin	0	0	0	0	0	0	96
West North Central	**0**	**163**	**0**	**14**	**0**	**0**	**74**
Iowa	0	62	0	2,315	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	306	0	25	0	0	85
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**6**	**8**	**0**	**2**	**0**	**0**	**19**
Delaware	0	48	0	6	0	0	0
Florida	0	38	0	5	0	0	0
Georgia	0	89	0	5	0	0	303
Maryland	0	8	0	3	0	0	0
North Carolina	0	76	0	5	0	0	90
South Carolina	0	0	0	12	0	0	124
Virginia	0	8	0	2	0	0	66
West Virginia	9	0	0	13	0	0	47
East South Central	**0**	**113**	**0**	**0**	**0**	**0**	**359**
Alabama	0	175	0	0	0	0	0
Kentucky	0	0	0	0	0	0	359
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**7**	**0**	**1**	**0**	**0**	**31**
Arkansas	0	0	0	0	0	0	57
Louisiana	0	0	0	6	0	0	33
Oklahoma	0	0	0	0	0	0	0
Texas	0	23	0	1	0	0	0
Mountain	**4**	**32**	**0**	**3**	**0**	**0**	**33**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	8	0	0	75
Idaho	0	0	0	40	0	0	43
Montana	5	60	0	52	0	0	96
Nevada	0	0	0	0	0	0	96
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**3**	**0**	**1**	**0**	**0**	**21**
California	0	0	0	1	0	0	23
Oregon	0	0	0	2	0	0	77
Washington	0	8	0	11	0	0	64
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	38	103	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**15**	**1**	**10**	**0**	**9**

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 August 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**	**7**	**0**	**0**	**2**
Connecticut	0	0	0	13	12	0	0	1
Maine	0	0	0	76	13	0	0	10
Massachusetts	0	0	0	6	6	0	1	3
New Hampshire	0	0	0	0	22	0	0	2
Rhode Island	0	0	0	20	14	0	0	8
Vermont	0	0	0	20	26	0	0	25
Middle Atlantic	**0**	**0**	**0**	**5**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	8	7	0	0	1
Pennsylvania	0	0	0	19	10	0	0	1
East North Central	**0**	**0**	**0**	**9**	**5**	**0**	**10**	**1**
Illinois	0	0	0	20	7	0	0	1
Indiana	0	0	0	15	11	0	0	2
Michigan	0	0	0	27	10	0	16	2
Ohio	0	0	0	18	8	0	0	1
Wisconsin	0	0	0	30	12	0	0	1
West North Central	**0**	**0**	**0**	**5**	**3**	**0**	**0**	**3**
Iowa	0	0	0	68	9	0	0	8
Kansas	0	0	0	16	2	0	0	2
Minnesota	0	0	0	5	6	0	0	8
Missouri	0	0	0	21	9	0	0	5
Nebraska	0	0	0	33	5	0	0	5
North Dakota	0	0	0	0	7	0	0	7
South Dakota	0	0	0	159	8	0	0	8
South Atlantic	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**1**
Delaware	0	0	0	30	20	0	0	6
District of Columbia	0	0	0	65	65	0	0	65
Florida	0	0	0	3	3	0	0	3
Georgia	0	0	0	2	2	0	0	4
Maryland	0	0	0	8	11	0	0	1
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	5	0	0	5
Virginia	0	0	0	7	7	0	0	2
West Virginia	0	0	0	0	19	0	0	8
East South Central	**0**	**0**	**0**	**4**	**5**	**0**	**0**	**0**
Alabama	0	0	0	9	8	0	0	0
Kentucky	0	0	0	164	42	0	0	5
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	10	14	0	0	13
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Arkansas	0	0	0	5	6	0	0	1
Louisiana	0	0	0	0	17	0	0	8
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	1	1	0	0	0
Mountain	**0**	**7**	**0**	**1**	**2**	**0**	**0**	**2**
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	3	0	0	3
Idaho	0	29	0	7	13	0	0	16
Montana	0	0	0	39	17	0	0	5
Nevada	0	7	0	2	3	0	0	2
New Mexico	0	0	0	5	3	0	0	2
Utah	0	19	0	4	4	0	0	4
Wyoming	0	0	0	0	17	0	0	13
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**1**
California	0	3	0	1	1	0	0	1
Oregon	0	22	0	6	7	0	0	3
Washington	0	0	0	34	15	0	0	5
Pacific Noncontiguous	**0**	**52**	**0**	**7**	**14**	**0**	**0**	**5**
Alaska	0	0	0	0	122	0	0	37
Hawaii	0	52	0	7	14	0	0	4
U.S. Total	**0**	**3**	**0**	**1**	**1**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**34**	**0**	**9**	**0**	**0**	**0**
Connecticut	0	0	0	14	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	53	0	14	0	0	0
New Hampshire	0	5	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**	**44**	**0**	**9**	**0**	**0**	**0**
New Jersey	0	47	0	18	0	0	0
New York	0	99	0	12	0	0	0
Pennsylvania	0	0	0	8	0	0	0
East North Central	**0**	**39**	**0**	**5**	**0**	**0**	**0**
Illinois	0	16	0	18	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	348	0	5	0	0	0
Ohio	0	0	0	3	0	0	0
Wisconsin	0	323	0	7	0	0	0
West North Central	**0**	**2**	**0**	**2**	**0**	**0**	**0**
Iowa	0	0	0	6	0	0	0
Minnesota	0	1	0	4	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	1,555	0	0	0	0	0
South Atlantic	**0**	**2**	**0**	**5**	**0**	**0**	**0**
District of Columbia	0	0	0	19	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	57	0	0	0	0	0
Maryland	0	85	0	3	0	0	0
North Carolina	0	104	0	44	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**	**17**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	17	0	0	0
West South Central	**0**	**0**	**0**	**15**	**0**	**0**	**0**
Arkansas	0	0	0	90	0	0	0
Louisiana	0	0	0	25	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	17	0	0	0
Mountain	**0**	**2,439**	**0**	**6**	**0**	**0**	**0**
Arizona	0	2,439	0	3	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	23	0	0	0
Utah	0	0	0	11	0	0	0
Pacific Contiguous	**0**	**88**	**0**	**2**	**0**	**0**	**373**
California	0	30	0	2	0	0	373
Oregon	0	902	0	19	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**58**	**8**	**0**	**0**	**0**	**0**	**105**
Alaska	58	22	0	0	0	0	105
Hawaii	0	0	0	0	0	0	0
U.S. Total	**23**	**6**	**0**	**3**	**0**	**0**	**76**

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, August 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**	**59**	**10**	**0**	**0**	**8**
Connecticut	0	0	0	90	90	0	0	14
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	78	27	0	0	13
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**5**	**0**	**3**	**5**
New Jersey	0	0	0	17	9	0	0	7
New York	0	0	0	56	7	0	7	8
Pennsylvania	0	0	0	80	8	0	0	4
East North Central	**0**	**0**	**0**	**56**	**24**	**0**	**0**	**5**
Illinois	0	0	0	121	214	0	0	17
Indiana	0	0	0	145	15	0	0	1
Michigan	0	0	0	182	5	0	0	4
Ohio	0	0	0	99	38	0	0	3
Wisconsin	0	0	0	121	58	0	0	21
West North Central	**0**	**0**	**0**	**0**	**17**	**0**	**33**	**6**
Iowa	0	0	0	0	20	0	0	5
Kansas	0	0	0	0	142	0	0	142
Minnesota	0	0	0	0	32	0	33	14
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	537	0	0	521
South Dakota	0	0	0	0	0	0	0	1,555
South Atlantic	**0**	**0**	**0**	**18**	**7**	**0**	**0**	**4**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	15
Florida	0	0	0	75	24	0	0	16
Georgia	0	0	0	118	118	0	0	101
Maryland	0	0	0	52	27	0	0	3
North Carolina	0	0	0	21	21	0	0	21
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	166	4	0	0	2
East South Central	**0**	**0**	**0**	**93**	**93**	**0**	**0**	**16**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	93	93	0	0	16
West South Central	**0**	**0**	**0**	**25**	**18**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	0	59
Louisiana	0	0	0	0	0	0	0	25
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	110	25	0	0	16
Mountain	**0**	**0**	**0**	**22**	**5**	**0**	**0**	**4**
Arizona	0	0	0	58	58	0	0	7
Colorado	0	0	0	47	47	0	0	22
Idaho	0	0	0	0	27	0	0	12
Nevada	0	0	0	27	4	0	0	4
New Mexico	0	0	0	0	363	0	0	24
Utah	0	0	0	0	0	0	0	8
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	16
Washington	0	0	0	0	48	0	0	33
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**
Alaska	0	0	0	0	0	0	0	59
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**8**	**3**	**0**	**2**	**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.4.B. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, Year-to-Date through August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**34**	**0**	**9**	**0**	**0**	**0**
Connecticut	0	0	0	14	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	53	0	14	0	0	0
New Hampshire	0	5	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**	**44**	**0**	**9**	**0**	**0**	**0**
New Jersey	0	47	0	18	0	0	0
New York	0	99	0	12	0	0	0
Pennsylvania	0	0	0	8	0	0	0
East North Central	**0**	**39**	**0**	**5**	**0**	**0**	**0**
Illinois	0	16	0	18	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	348	0	5	0	0	0
Ohio	0	0	0	3	0	0	0
Wisconsin	0	323	0	7	0	0	0
West North Central	**0**	**2**	**0**	**2**	**0**	**0**	**0**
Iowa	0	0	0	6	0	0	0
Minnesota	0	1	0	4	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	1,555	0	0	0	0	0
South Atlantic	**0**	**2**	**0**	**5**	**0**	**0**	**0**
District of Columbia	0	0	0	19	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	57	0	0	0	0	0
Maryland	0	85	0	3	0	0	0
North Carolina	0	104	0	44	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**	**17**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	17	0	0	0
West South Central	**0**	**0**	**0**	**15**	**0**	**0**	**0**
Arkansas	0	0	0	90	0	0	0
Louisiana	0	0	0	25	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	17	0	0	0
Mountain	**0**	**2,439**	**0**	**6**	**0**	**0**	**0**
Arizona	0	2,439	0	3	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	23	0	0	0
Utah	0	0	0	11	0	0	0
Pacific Contiguous	**0**	**88**	**0**	**2**	**0**	**0**	**373**
California	0	30	0	2	0	0	373
Oregon	0	902	0	19	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**58**	**8**	**0**	**0**	**0**	**0**	**105**
Alaska	58	22	0	0	0	0	105
Hawaii	0	0	0	0	0	0	0
U.S. Total	**23**	**6**	**0**	**3**	**0**	**0**	**76**

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 August 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**	**59**	**10**	**0**	**0**	**8**
Connecticut	0	0	0	90	90	0	0	14
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	78	27	0	0	13
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**5**	**0**	**3**	**5**
New Jersey	0	0	0	17	9	0	0	7
New York	0	0	0	56	7	0	7	8
Pennsylvania	0	0	0	80	8	0	0	4
East North Central	**0**	**0**	**0**	**56**	**24**	**0**	**0**	**5**
Illinois	0	0	0	121	214	0	0	17
Indiana	0	0	0	145	15	0	0	1
Michigan	0	0	0	182	5	0	0	4
Ohio	0	0	0	99	38	0	0	3
Wisconsin	0	0	0	121	58	0	0	21
West North Central	**0**	**0**	**0**	**0**	**17**	**0**	**33**	**6**
Iowa	0	0	0	0	20	0	0	5
Kansas	0	0	0	0	142	0	0	142
Minnesota	0	0	0	0	32	0	33	14
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	537	0	0	521
South Dakota	0	0	0	0	0	0	0	1,555
South Atlantic	**0**	**0**	**0**	**18**	**7**	**0**	**0**	**4**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	15
Florida	0	0	0	75	24	0	0	16
Georgia	0	0	0	118	118	0	0	101
Maryland	0	0	0	52	27	0	0	3
North Carolina	0	0	0	21	21	0	0	21
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	166	4	0	0	2
East South Central	**0**	**0**	**0**	**93**	**93**	**0**	**0**	**16**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	93	93	0	0	16
West South Central	**0**	**0**	**0**	**25**	**18**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	0	59
Louisiana	0	0	0	0	0	0	0	25
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	110	25	0	0	16
Mountain	**0**	**0**	**0**	**22**	**5**	**0**	**0**	**4**
Arizona	0	0	0	58	58	0	0	7
Colorado	0	0	0	47	47	0	0	22
Idaho	0	0	0	0	27	0	0	12
Nevada	0	0	0	27	4	0	0	4
New Mexico	0	0	0	0	363	0	0	24
Utah	0	0	0	0	0	0	0	8
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	16
Washington	0	0	0	0	48	0	0	33
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**
Alaska	0	0	0	0	0	0	0	59
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**8**	**3**	**0**	**2**	**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.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**131**	**50**	**0**	**8**	**0**	**0**	**103**
Connecticut	0	0	0	10	0	0	0
Maine	131	51	0	16	0	0	103
Massachusetts	0	0	0	9	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	357	0	26	0	0	0
Middle Atlantic	**0**	**48**	**0**	**6**	**62**	**0**	**77**
New Jersey	0	0	0	7	0	0	0
New York	0	12	0	5	0	0	77
Pennsylvania	0	74	0	9	109	0	0
East North Central	**5**	**24**	**0**	**4**	**32**	**0**	**63**
Illinois	5	0	0	11	0	0	0
Indiana	0	0	0	5	42	0	0
Michigan	0	22	0	10	0	0	302
Ohio	0	0	0	11	0	0	0
Wisconsin	22	356	0	10	0	0	63
West North Central	**5**	**0**	**0**	**6**	**0**	**0**	**0**
Iowa	2	0	0	10	0	0	0
Kansas	0	0	0	16	0	0	0
Minnesota	48	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	14	0	0	0	0	0	0
North Dakota	49	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**8**	**36**	**38**	**5**	**0**	**0**	**47**
Delaware	0	0	0	0	0	0	0
Florida	0	90	0	11	0	0	0
Georgia	19	51	38	22	0	0	160
Maryland	0	0	0	0	0	0	0
North Carolina	4	59	0	27	0	0	530
South Carolina	0	0	0	15	0	0	0
Virginia	0	161	0	7	0	0	0
West Virginia	0	0	0	0	0	0	48
East South Central	**0**	**119**	**0**	**7**	**29**	**0**	**0**
Alabama	0	143	0	14	175	0	0
Kentucky	0	0	0	9	0	0	0
Mississippi	0	0	0	20	0	0	0
Tennessee	0	0	0	6	0	0	0
West South Central	**0**	**62**	**0**	**1**	**5**	**0**	**0**
Arkansas	0	1,100	0	32	0	0	0
Louisiana	0	0	0	2	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	14	0	2	8	0	0
Mountain	**22**	**0**	**0**	**2**	**11**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	120	0	0	21	0	0	0
Montana	252	0	0	1,454	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	22	0	0	4	11	0	0
Pacific Contiguous	**0**	**86**	**0**	**1**	**1**	**0**	**0**
California	0	0	0	1	1	0	0
Oregon	0	0	0	30	0	0	0
Washington	0	132	0	3	0	0	0
Pacific Noncontiguous	**0**	**5**	**0**	**0**	**0**	**0**	**128**
Alaska	0	15	0	0	0	0	0
Hawaii	0	0	0	0	0	0	128
U.S. Total	**3**	**11**	**14**	**1**	**10**	**0**	**33**

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, August 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**	**67**	**9**	**0**	**0**	**7**
Connecticut	0	0	0	634	634	0	0	10
Maine	0	0	0	0	9	0	0	9
Massachusetts	0	0	0	67	169	0	0	11
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	26
Middle Atlantic	**0**	**0**	**0**	**44**	**9**	**0**	**0**	**8**
New Jersey	0	0	0	75	75	0	0	5
New York	0	0	0	84	21	0	0	7
Pennsylvania	0	0	0	72	9	0	0	13
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**1**	**6**
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	24	0	0	14
Michigan	0	0	0	0	13	0	0	7
Ohio	0	0	0	0	25	0	0	10
Wisconsin	0	0	0	0	13	0	63	8
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	16
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	14
North Dakota	0	0	0	0	0	0	0	32
South Dakota	0	0	0	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**91**	**3**	**0**	**0**	**3**
Delaware	0	0	0	0	63	0	0	0
Florida	0	0	0	118	7	0	0	5
Georgia	0	0	0	0	5	0	0	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	7
South Carolina	0	0	0	134	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	20
East South Central	**0**	**0**	**0**	**87**	**4**	**0**	**48**	**3**
Alabama	0	0	0	0	5	0	0	5
Kentucky	0	0	0	0	23	0	0	13
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	87	10	0	48	4
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**2**	**1**
Arkansas	0	0	0	0	9	0	0	9
Louisiana	0	0	0	0	7	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	13	0	5	1
Mountain	**0**	**0**	**0**	**87**	**1**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	134	2	0	0	6
Montana	0	0	0	0	0	0	0	42
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	5
Pacific Contiguous	**0**	**0**	**0**	**29**	**8**	**0**	**3**	**1**
California	0	0	0	29	12	0	3	1
Oregon	0	0	0	0	15	0	0	13
Washington	0	0	0	0	11	0	0	6
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**315**	**0**	**0**	**30**
Alaska	0	0	0	0	315	0	0	7
Hawaii	0	0	0	0	0	0	0	49
U.S. Total	**0**	**0**	**0**	**21**	**2**	**0**	**1**	**1**

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

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

Industrial Sector by Census Division and State, Year-to-Date through August 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**131**	**50**	**0**	**8**	**0**	**0**	**103**
Connecticut	0	0	0	10	0	0	0
Maine	131	51	0	16	0	0	103
Massachusetts	0	0	0	9	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	357	0	26	0	0	0
Middle Atlantic	**0**	**48**	**0**	**6**	**62**	**0**	**77**
New Jersey	0	0	0	7	0	0	0
New York	0	12	0	5	0	0	77
Pennsylvania	0	74	0	9	109	0	0
East North Central	**5**	**24**	**0**	**4**	**32**	**0**	**63**
Illinois	5	0	0	11	0	0	0
Indiana	0	0	0	5	42	0	0
Michigan	0	22	0	10	0	0	302
Ohio	0	0	0	11	0	0	0
Wisconsin	22	356	0	10	0	0	63
West North Central	**5**	**0**	**0**	**6**	**0**	**0**	**0**
Iowa	2	0	0	10	0	0	0
Kansas	0	0	0	16	0	0	0
Minnesota	48	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	14	0	0	0	0	0	0
North Dakota	49	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**8**	**36**	**38**	**5**	**0**	**0**	**47**
Delaware	0	0	0	0	0	0	0
Florida	0	90	0	11	0	0	0
Georgia	19	51	38	22	0	0	160
Maryland	0	0	0	0	0	0	0
North Carolina	4	59	0	27	0	0	530
South Carolina	0	0	0	15	0	0	0
Virginia	0	161	0	7	0	0	0
West Virginia	0	0	0	0	0	0	48
East South Central	**0**	**119**	**0**	**7**	**29**	**0**	**0**
Alabama	0	143	0	14	175	0	0
Kentucky	0	0	0	9	0	0	0
Mississippi	0	0	0	20	0	0	0
Tennessee	0	0	0	6	0	0	0
West South Central	**0**	**62**	**0**	**1**	**5**	**0**	**0**
Arkansas	0	1,100	0	32	0	0	0
Louisiana	0	0	0	2	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	14	0	2	8	0	0
Mountain	**22**	**0**	**0**	**2**	**11**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	120	0	0	21	0	0	0
Montana	252	0	0	1,454	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	22	0	0	4	11	0	0
Pacific Contiguous	**0**	**86**	**0**	**1**	**1**	**0**	**0**
California	0	0	0	1	1	0	0
Oregon	0	0	0	30	0	0	0
Washington	0	132	0	3	0	0	0
Pacific Noncontiguous	**0**	**5**	**0**	**0**	**0**	**0**	**128**
Alaska	0	15	0	0	0	0	0
Hawaii	0	0	0	0	0	0	128
U.S. Total	**3**	**11**	**14**	**1**	**10**	**0**	**33**

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 August 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**	**67**	**9**	**0**	**0**	**7**
Connecticut	0	0	0	634	634	0	0	10
Maine	0	0	0	0	9	0	0	9
Massachusetts	0	0	0	67	169	0	0	11
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	26
Middle Atlantic	**0**	**0**	**0**	**44**	**9**	**0**	**0**	**8**
New Jersey	0	0	0	75	75	0	0	5
New York	0	0	0	84	21	0	0	7
Pennsylvania	0	0	0	72	9	0	0	13
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**1**	**6**
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	24	0	0	14
Michigan	0	0	0	0	13	0	0	7
Ohio	0	0	0	0	25	0	0	10
Wisconsin	0	0	0	0	13	0	63	8
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	16
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	14
North Dakota	0	0	0	0	0	0	0	32
South Dakota	0	0	0	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**91**	**3**	**0**	**0**	**3**
Delaware	0	0	0	0	63	0	0	0
Florida	0	0	0	118	7	0	0	5
Georgia	0	0	0	0	5	0	0	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	7
South Carolina	0	0	0	134	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	20
East South Central	**0**	**0**	**0**	**87**	**4**	**0**	**48**	**3**
Alabama	0	0	0	0	5	0	0	5
Kentucky	0	0	0	0	23	0	0	13
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	87	10	0	48	4
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**2**	**1**
Arkansas	0	0	0	0	9	0	0	9
Louisiana	0	0	0	0	7	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	13	0	5	1
Mountain	**0**	**0**	**0**	**87**	**1**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	134	2	0	0	6
Montana	0	0	0	0	0	0	0	42
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	5
Pacific Contiguous	**0**	**0**	**0**	**29**	**8**	**0**	**3**	**1**
California	0	0	0	29	12	0	3	1
Oregon	0	0	0	0	15	0	0	13
Washington	0	0	0	0	11	0	0	6
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**315**	**0**	**0**	**30**
Alaska	0	0	0	0	315	0	0	7
Hawaii	0	0	0	0	0	0	0	49
U.S. Total	**0**	**0**	**0**	**21**	**2**	**0**	**1**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, August 2020

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	2	0	1
Maine	0	1	2	0	1
Massachusetts	0	1	4	0	1
New Hampshire	0	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	6	6	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**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	0	2	3	0	1
Ohio	0	1	1	0	0
Wisconsin	1	3	6	0	2
West North Central	**0**	**2**	**3**	**0**	**1**
Iowa	1	6	5	0	3
Kansas	1	1	7	0	2
Minnesota	1	4	7	0	3
Missouri	1	2	5	0	1
Nebraska	1	6	8	0	3
North Dakota	1	4	7	0	4
South Dakota	1	8	12	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	4	0	1
District of Columbia	0	0	0	0	0
Florida	0	0	5	0	0
Georgia	1	1	4	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	0	0	4	0	1
West Virginia	0	1	0	0	0
East South Central	**0**	**1**	**2**	**0**	**1**
Alabama	1	1	3	0	1
Kentucky	1	3	2	0	1
Mississippi	1	1	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	1
Texas	2	1	2	0	1
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	6	0	2
Idaho	1	4	3	0	2
Montana	1	6	5	0	3
Nevada	0	1	1	0	1
New Mexico	1	6	6	0	3
Utah	1	4	2	0	2
Wyoming	1	7	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	0
Oregon	1	3	8	0	2
Washington	0	4	7	0	2
Pacific Noncontiguous	**1**	**4**	**4**	**0**	**2**
Alaska	1	9	15	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, August 2020

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**5**	**0**	**1**
Connecticut	0	1	12	0	1
Maine	0	1	8	0	1
Massachusetts	0	1	9	0	1
New Hampshire	0	1	16	0	2
Rhode Island	0	0	0	0	0
Vermont	1	5	4	0	2
Middle Atlantic	**0**	**1**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	1	1	0	1
Pennsylvania	0	0	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	0
Indiana	1	2	1	0	1
Michigan	0	1	4	0	1
Ohio	0	1	1	0	0
Wisconsin	1	2	6	0	2
West North Central	**0**	**1**	**3**	**0**	**1**
Iowa	1	4	6	0	2
Kansas	1	2	6	0	1
Minnesota	1	3	8	0	2
Missouri	1	2	4	0	1
Nebraska	1	5	9	0	3
North Dakota	1	3	7	0	3
South Dakota	2	6	12	0	3
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	5	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	0
Georgia	1	1	4	0	1
Maryland	0	0	1	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	4	0	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	2	2	6	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	2	1	2	0	1
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	5	0	1
Colorado	1	4	7	0	2
Idaho	1	3	3	0	1
Montana	1	4	7	0	2
Nevada	0	2	1	0	1
New Mexico	2	6	10	0	3
Utah	1	5	3	0	2
Wyoming	2	6	5	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	1	0	0
Oregon	1	3	9	0	2
Washington	1	3	8	0	2
Pacific Noncontiguous	**1**	**2**	**3**	**0**	**1**
Alaska	2	6	13	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, August 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**5**	**0**	**0**
Connecticut	0	0	10	0	1
Maine	0	0	6	0	1
Massachusetts	1	0	7	0	1
New Hampshire	0	0	12	0	2
Rhode Island	0	0	0	0	0
Vermont	3	2	3	0	2
Middle Atlantic	**1**	**1**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	2	1	1	0	1
Pennsylvania	0	0	0	0	0
East North Central	**0**	**0**	**0**	**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	2
Kansas	2	2	5	0	2
Minnesota	1	1	3	0	1
Missouri	1	1	3	0	1
Nebraska	1	2	3	0	1
North Dakota	1	1	3	0	2
South Dakota	2	3	4	0	2
South Atlantic	**1**	**0**	**1**	**0**	**0**
Delaware	1	1	3	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	1
Georgia	1	1	3	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	2	0	1
South Carolina	2	1	2	0	1
Virginia	1	1	3	0	1
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**1**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	1	1	0	1
Mississippi	2	2	4	0	2
Tennessee	1	1	2	0	1
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	2	2	3	0	2
Louisiana	2	1	1	0	1
Oklahoma	2	2	3	0	1
Texas	1	1	1	0	1
Mountain	**1**	**1**	**1**	**0**	**0**
Arizona	1	1	1	0	0
Colorado	2	2	3	0	1
Idaho	1	1	1	0	1
Montana	2	2	2	0	1
Nevada	1	1	1	0	0
New Mexico	3	3	6	0	2
Utah	2	2	2	0	1
Wyoming	2	2	2	0	1
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	1	0	0
Oregon	1	1	3	0	2
Washington	1	2	2	0	1
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**2**
Alaska	3	6	9	0	4
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 August 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**6**	**0**	**1**
Connecticut	0	1	12	0	1
Maine	0	1	8	0	1
Massachusetts	0	1	9	0	1
New Hampshire	0	1	16	0	2
Rhode Island	0	0	0	0	0
Vermont	2	6	6	0	3
Middle Atlantic	**0**	**1**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	1	1	0	1
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	7	0	2
West North Central	**0**	**2**	**4**	**0**	**1**
Iowa	1	7	7	0	3
Kansas	1	2	8	0	2
Minnesota	1	4	9	0	3
Missouri	1	3	6	0	1
Nebraska	1	7	11	0	4
North Dakota	1	4	9	0	4
South Dakota	1	9	15	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	6	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	7	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	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	2	3	0	1
Kentucky	1	4	3	0	2
Mississippi	2	2	7	0	2
Tennessee	1	3	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	1	2	5	0	2
Louisiana	1	1	2	0	1
Oklahoma	1	2	6	0	2
Texas	2	1	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	5	0	1
Colorado	1	5	8	0	3
Idaho	1	4	4	0	2
Montana	1	7	7	0	3
Nevada	0	2	2	0	1
New Mexico	2	8	11	0	4
Utah	1	5	4	0	2
Wyoming	1	8	6	0	4
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	0
Oregon	1	4	10	0	3
Washington	1	4	9	0	2
Pacific Noncontiguous	**1**	**4**	**4**	**0**	**2**
Alaska	2	9	17	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	01/09/2020 11:07 PM	01/09/2020 11:18 PM	0 Hours, 11 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	01/09/2020 11:07 PM	01/09/2020 11:19 PM	0 Hours, 12 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	01/11/2020 2:25 AM	01/11/2020 7:56 AM	5 Hours, 31 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	01/11/2020 3:30 AM	01/11/2020 5:30 PM	14 Hours, 0 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	01/11/2020 12:50 PM	01/12/2020 1:33 PM	24 Hours, 43 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	01/11/2020 1:20 PM	. .	. 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	01/11/2020 11:02 PM	01/12/2020 2:01 AM	2 Hours, 59 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	01/17/2020 5:28 AM	01/17/2020 10:13 AM	4 Hours, 45 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	1	01/24/2020 4:34 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
2020	1	01/30/2020 3:01 AM	01/30/2020 4:36 AM	1 Hours, 35 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	2	02/06/2020 1:30 PM	02/07/2020 8:08 PM	30 Hours, 38 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	02/06/2020 2:29 PM	02/07/2020 12:44 PM	22 Hours, 15 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	02/07/2020 8:48 AM	. .	. 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
2020	2	02/07/2020 11:00 AM	. .	. 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	02/07/2020 2:42 PM	02/10/2020 9:25 AM	66 Hours, 43 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	02/07/2020 4:25 PM	02/08/2020 12:00 PM	19 Hours, 35 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	02/09/2020 9:30 AM	02/09/2020 9:40 PM	12 Hours, 10 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	02/11/2020 7:13 AM	02/11/2020 4:00 PM	8 Hours, 47 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	02/17/2020 4:00 AM	. .	. 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

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	03/01/2020 8:00 AM	. .	. 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	03/01/2020 11:27 AM	03/01/2020 9:47 PM	10 Hours, 20 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	03/12/2020 1:03 AM	03/12/2020 3:00 AM	1 Hours, 57 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	03/16/2020 12:01 PM	03/16/2020 1:10 PM	1 Hours, 9 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	03/18/2020 7:09 AM	. .	. 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	03/24/2020 2:55 AM	03/24/2020 6:50 AM	3 Hours, 55 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	03/26/2020 9:29 PM	03/26/2020 9:47 PM	0 Hours, 18 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	03/29/2020 8:27 PM	03/29/2020 11:04 PM	2 Hours, 37 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	3	03/31/2020 11:45 AM	03/31/2020 8:00 PM	8 Hours, 15 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	4	04/02/2020 1:37 PM	04/02/2020 2:43 PM	1 Hours, 6 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	04/05/2020 3:46 PM	04/05/2020 5:35 PM	1 Hours, 49 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	04/07/2020 11:39 PM	04/07/2020 11:46 PM	0 Hours, 7 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	04/08/2020 1:21 AM	04/08/2020 3:56 AM	2 Hours, 35 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	04/08/2020 9:57 PM	04/09/2020 8:59 AM	11 Hours, 2 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	4	04/08/2020 10:03 PM	04/09/2020 7:36 AM	9 Hours, 33 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	04/09/2020 7:25 PM	04/10/2020 3:30 AM	8 Hours, 5 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	04/09/2020 7:40 PM	04/11/2020 10:00 PM	50 Hours, 20 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	04/11/2020 11:24 AM	04/11/2020 11:42 AM	0 Hours, 18 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	04/12/2020 5:00 PM	04/14/2020 1:25 AM	32 Hours, 25 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	04/12/2020 6:13 PM	04/13/2020 3:23 PM	21 Hours, 10 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

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	04/12/2020 8:30 PM	04/14/2020 9:00 AM	36 Hours, 30 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	04/12/2020 8:45 PM	. .	. 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	04/12/2020 9:28 PM	04/15/2020 12:00 PM	62 Hours, 32 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	04/13/2020 12:45 AM	04/13/2020 3:00 AM	2 Hours, 15 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	04/13/2020 3:30 AM	04/14/2020 6:18 PM	38 Hours, 48 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	04/13/2020 7:31 AM	04/13/2020 2:00 PM	6 Hours, 29 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	04/13/2020 8:08 AM	. .	. 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	04/13/2020 10:25 AM	04/13/2020 6:55 PM	8 Hours, 30 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	04/13/2020 1:05 PM	04/14/2020 4:00 PM	26 Hours, 55 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	04/20/2020 12:59 AM	04/20/2020 8:40 AM	7 Hours, 41 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	04/23/2020 4:30 AM	04/23/2020 7:00 AM	2 Hours, 30 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	04/23/2020 8:00 AM	04/23/2020 11:40 PM	15 Hours, 40 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
2020	4	04/24/2020 9:00 PM	04/24/2020 9:33 PM	0 Hours, 33 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	04/26/2020 1:38 AM	. .	. 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	04/28/2020 8:01 PM	04/28/2020 11:21 PM	3 Hours, 20 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	04/29/2020 5:55 AM	04/29/2020 7:00 PM	13 Hours, 5 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	04/29/2020 6:00 AM	04/29/2020 12:31 PM	6 Hours, 31 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	04/30/2020 3:00 PM	. .	. 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	5	05/04/2020 11:59 AM	05/07/2020 8:00 PM	80 Hours, 1 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
2020	5	05/13/2020 5:12 AM	05/13/2020 2:07 PM	8 Hours, 55 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	05/15/2020 5:55 PM	05/17/2020 6:00 PM	48 Hours, 5 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	05/22/2020 4:35 PM	05/23/2020 3:29 PM	22 Hours, 54 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	05/24/2020 4:45 PM	. .	. 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	05/25/2020 10:58 AM	05/25/2020 1:00 PM	2 Hours, 2 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	05/27/2020 5:15 PM	05/29/2020 6:30 AM	37 Hours, 15 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

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	05/27/2020 5:20 PM	. .	. 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	05/29/2020 5:01 PM	05/29/2020 6:57 PM	1 Hours, 56 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	6	06/03/2020 12:30 PM	06/03/2020 6:00 PM	5 Hours, 30 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	708000
2020	6	06/03/2020 1:00 PM	06/06/2020 4:30 PM	75 Hours, 30 Minutes	Public Service Electric & Gas	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	80	87000
2020	6	06/03/2020 1:36 PM	06/03/2020 4:30 PM	2 Hours, 54 Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78079
2020	6	06/09/2020 11:21 AM	06/09/2020 12:01 PM	0 Hours, 40 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	6	06/10/2020 12:22 PM	06/10/2020 5:00 PM	4 Hours, 38 Minutes	Consumers Energy Co	RF	Michigan: Gratiot County, Lake County, Missaukee County, Benzie County, Leelanau County, Manistee County, Wexford County, Montcalm County, Kent County, Ottawa County, Van Buren County, St. Joseph County, Arenac County, Saginaw County, Calhoun County, Branch County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	270000
2020	6	06/10/2020 5:24 PM	06/11/2020 6:00 PM	24 Hours, 36 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio: Indiana: Kentucky: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	85822
2020	6	06/10/2020 7:30 PM	. .	. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Oakland County, Macomb County, Wayne County, Sanilac County, Tuscola County, Huron County, Lapeer County, Livingston County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	237000
2020	6	06/27/2020 4:00 PM	06/28/2020 2:27 AM	10 Hours, 27 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	33480	78109
2020	6	06/29/2020 2:32 PM	06/29/2020 4:35 PM	2 Hours, 3 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Garland 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	7	07/01/2020 7:26 PM	07/01/2020 7:44 PM	0 Hours, 18 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	32	2013
2020	7	07/02/2020 8:30 PM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Butte County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2020	7	07/07/2020 11:38 AM	07/07/2020 6:24 PM	6 Hours, 46 Minutes	Los Angeles Department of Water & Power	WECC	California: Los Angeles 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	7	07/07/2020 1:09 PM	07/08/2020 8:17 AM	19 Hours, 8 Minutes	Public Service Company of Colorado	WECC	Colorado:	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	7	07/07/2020 7:17 PM	07/07/2020 11:49 PM	4 Hours, 32 Minutes	American Electric Power - (RFC Reliability Region)	RF	West Virginia: Wyoming 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	Unknown	Unknown
2020	7	07/08/2020 6:45 PM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0

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	7	07/11/2020 4:55 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
2020	7	07/11/2020 9:30 PM	. .	. Hours, . 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	Unknown	94700
2020	7	07/11/2020 11:30 PM	07/12/2020 6:30 AM	7 Hours, 0 Minutes	Oklahoma Gas & Electric Co	SPP RE	Oklahoma: Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	68000
2020	7	07/12/2020 4:30 AM	07/13/2020 5:00 AM	24 Hours, 30 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Rockwall County, Tarrant County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	48000
2020	7	07/19/2020 10:30 AM	. .	. Hours, . Minutes	Somerset Operating Company	NPCC	New York: Niagara County	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	675	
2020	7	07/19/2020 2:30 PM	07/21/2020 6:48 PM	52 Hours, 18 Minutes	Detroit Edison Co	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	158500
2020	7	07/22/2020 11:30 AM	07/22/2020 2:19 PM	2 Hours, 49 Minutes	FirstEnergy Corp	RF	West Virginia: Tucker 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	7	07/25/2020 7:58 PM	07/27/2020 7:00 PM	47 Hours, 2 Minutes	American Electric Power - Texas	TRE	Texas: Nueces County, Kleberg County, Cameron County, Willacy County, Hidalgo County, Starr County, Kenedy County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	201208
2020	7	07/25/2020 9:00 PM	07/26/2020 4:00 PM	19 Hours, 0 Minutes	Magic Valley Electric Cooperative, Inc.	TRE	Texas: Hidalgo County, Cameron County, Starr County, Kenedy County, Willacy County, Brooks County, Jim Hogg County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	125	84000
2020	7	07/30/2020 5:54 PM	07/30/2020 8:18 PM	2 Hours, 24 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

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

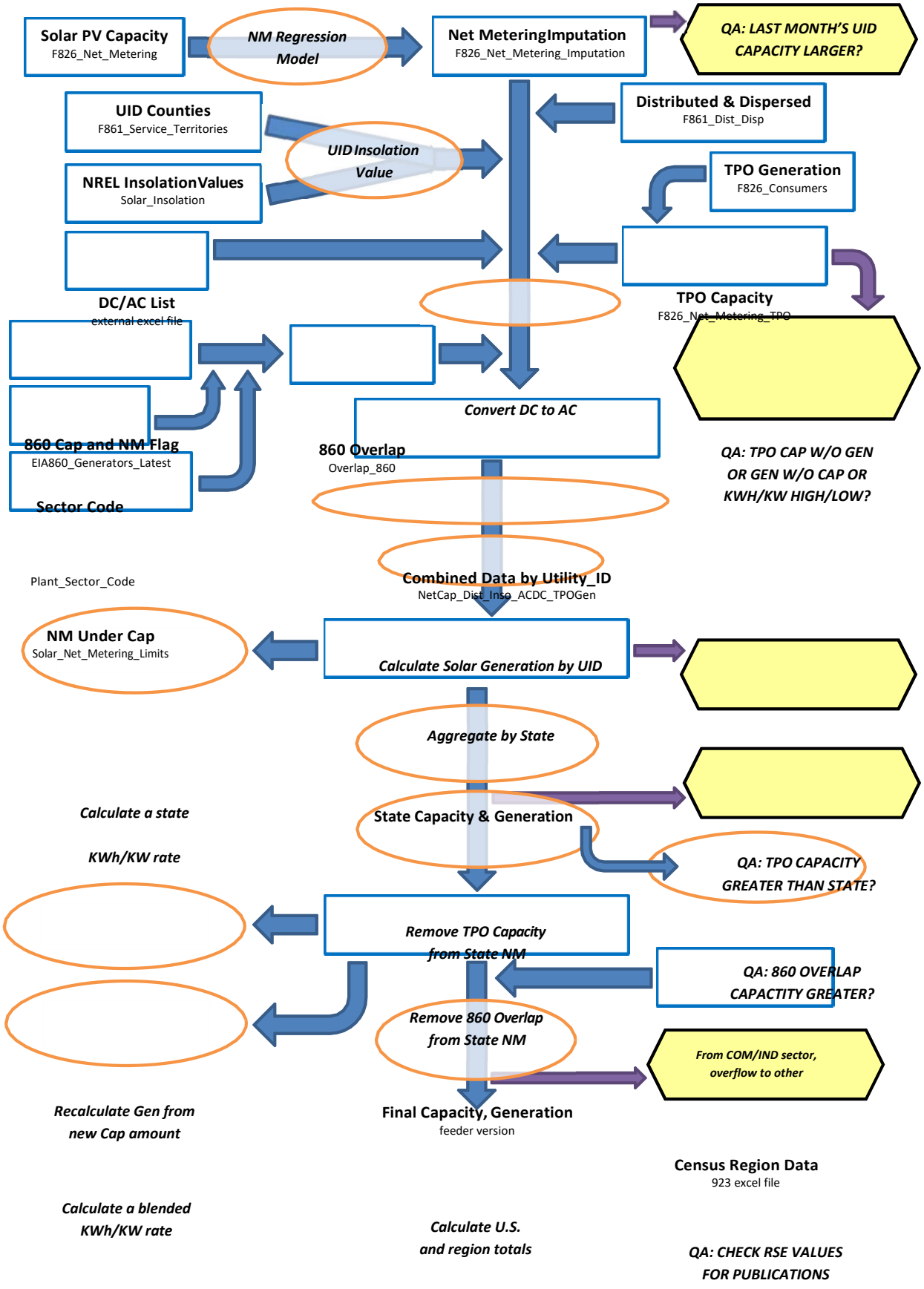
TMY3 (1991-2005) Weather Stations by MSA

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, August 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	20.60	6.16	--	1.03
Connecticut	--	5.80	--	1.03
Maine	20.60	6.25	--	1.03
Massachusetts	--	5.81	--	1.03
New Hampshire	--	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	20.25	5.98	--	1.03
New Jersey	25.87	5.57	--	1.04
New York	--	6.39	--	1.03
Pennsylvania	20.18	5.96	--	1.04
East North Central	20.36	5.87	27.34	1.05
Illinois	17.83	5.80	--	1.02
Indiana	22.44	5.76	--	1.06
Michigan	19.35	6.02	27.30	1.05
Ohio	25.08	5.78	--	1.06
Wisconsin	18.05	5.88	28.14	1.04
West North Central	16.59	5.78	27.02	1.06
Iowa	17.63	5.76	27.02	1.09
Kansas	17.29	5.79	--	1.01
Minnesota	17.84	5.86	--	1.10
Missouri	17.82	5.78	--	1.02
Nebraska	17.15	--	--	1.04
North Dakota	13.31	5.79	--	1.00
South Dakota	16.50	--	--	--
South Atlantic	24.18	5.80	28.09	1.03
Delaware	--	5.83	--	1.03
District of Columbia	--	--	--	--
Florida	23.73	5.77	28.09	1.02
Georgia	19.99	5.82	--	1.03
Maryland	25.07	5.79	--	1.04
North Carolina	25.17	5.80	--	1.03
South Carolina	24.85	5.79	--	1.03
Virginia	21.43	5.89	--	1.04
West Virginia	25.13	5.74	--	1.05
East South Central	20.65	5.78	--	1.03
Alabama	18.81	5.50	--	1.03
Kentucky	22.66	5.81	--	1.03
Mississippi	13.29	5.90	--	1.03
Tennessee	22.50	5.77	--	1.00
West South Central	16.06	5.84	28.96	1.02
Arkansas	17.61	5.85	--	1.02
Louisiana	17.69	--	28.96	1.03
Oklahoma	17.19	--	--	1.02
Texas	15.55	5.83	--	1.02
Mountain	18.81	5.79	--	1.04
Arizona	18.20	5.78	--	1.02
Colorado	18.69	5.67	--	1.10
Idaho	--	--	--	1.00
Montana	17.21	5.92	--	1.04
Nevada	19.23	5.78	--	1.03
New Mexico	18.55	5.66	--	1.02
Utah	21.86	5.87	--	1.03
Wyoming	17.92	5.82	--	1.05
Pacific Contiguous	18.18	6.00	--	1.03
California	22.90	--	--	1.03
Oregon	--	--	--	1.05
Washington	17.31	6.00	--	1.09
Pacific Noncontiguous	18.15	6.09	--	1.00
Alaska	13.79	5.60	--	1.00
Hawaii	19.52	6.09	--	--
U.S. Total	19.12	6.01	28.31	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, 2017 through 2019

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2017**	**2018**	**2019**
Net Generation			
Coal	0.17%	0.42%	0.12%
Petroleum Liquids	3.41%	2.56%	1.55%
Petroleum Coke	5.79%	5.97%	5.53%
Natural Gas	1.94%	1.10%	1.23%
Other Gases	11.64%	10.59%	7.56%
Hydroelectric	2.01%	2.37%	6.37%
Nuclear	0.00%	0.00%	0.00%
Other	1.33%	1.67%	1.51%
Total	**0.56%**	**0.29%**	**0.44%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.13%	0.17%	0.16%
Petroleum Liquids	3.39%	5.23%	2.23%
Petroleum Coke	4.95%	10.63%	5.48%
Natural Gas	1.09%	0.79%	1.14%
Fuel Stocks for Electric Power Sector			
Coal	0.18%	0.35%	0.34%
Petroleum Liquids	2.10%	1.07%	0.32%
Petroleum Coke	14.42%	2.29%	1.78%
Retail Sales			
Residential	0.31%	0.34%	0.36%
Commercial	0.28%	0.37%	0.46%
Industrial	4.00%	5.02%	5.27%
Transportation	0.12%	0.95%	0.81%
Total	**1.12%**	**1.53%**	**1.65%**
Revenue			
Residential	0.26%	0.21%	0.18%
Commercial	0.28%	0.49%	0.57%
Industrial	3.52%	4.76%	5.02%
Transportation	0.21%	1.63%	1.45%
Total	**0.57%**	**1.04%**	**1.12%**
Average Retail Price			
Residential	0.21%	0.16%	0.18%
Commercial	0.20%	0.16%	0.13%
Industrial	0.51%	0.38%	0.30%
Transportation	0.20%	0.80%	0.64%
Total	**0.53%**	**0.48%**	**0.52%**
Receipt of Fossil Fuels			
Coal	1.30%	0.33%	0.93%
Petroleum Liquids	3.18%	11.02%	2.66%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	19.49%	8.23%	8.25%
Cost of Fossil Fuels			
Coal	0.83%	0.24%	0.13%
Petroleum Liquids	0.34%	1.04%	0.29%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	0.47%	0.54%	0.20%

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, 2017 through 2019

	2017			2018			2019		
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	1,207,901	1,205,835	-0.17%	1,146,393	1,149,487	0.27%	966,148	964,957	-0.12%
Petroleum Liquids	12,583	12,414	-1.34%	15,742	16,245	3.19%	11,576	11,619	0.38%
Petroleum Coke	8,508	8,976	5.50%	8,830	8,981	1.71%	6,991	6,819	-2.46%
Natural Gas	1,272,864	1,296,442	1.85%	1,468,013	1,469,133	0.08%	1,581,815	1,585,717	0.25%
Other Gases	14,159	12,469	-11.94%	12,191	13,463	10.43%	13,634	12,591	-7.65%
Hydroelectric	293,550	293,838	0.10%	285,819	286,619	0.28%	268,447	282,613	5.28%
Nuclear	804,950	804,950	0.00%	807,078	807,084	0.00%	809,409	809,409	0.00%
Other	400,289	399,346	-0.24%	433,744	427,265	-1.49%	460,030	453,157	-1.49%
Total	**4,014,804**	**4,034,271**	**0.48%**	**4,177,810**	**4,178,277**	**0.01%**	**4,118,051**	**4,126,882**	**0.21%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	663,479	663,911	0.07%	635,833	636,213	0.06%	538,465	537,616	-0.16%
Petroleum Liquids (1,000 barrels)	21,935	21,696	-1.09%	27,245	28,614	5.02%	20,430	20,836	1.99%
Petroleum Coke (1,000 tons)	3,349	3,490	4.21%	3,311	3,623	9.40%	2,806	2,724	-2.94%
Natural Gas (1,000 Mcf)	9,440,777	9,508,062	0.71%	10,855,155	10,833,043	-0.20%	11,550,825	11,600,558	0.43%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	137,155	137,687	0.39%	102,786	102,793	0.01%	128,497	128,180	-0.25%
Petroleum Liquids (1,000 barrels)	28,723	28,089	-2.21%	25,082	25,977	3.57%	25,976	25,960	-0.06%
Petroleum Coke (1,000 tons)	1,113	864	-22.42%	541	539	-0.27%	443	471	6.35%
Retail Sales (Million kWh)									
Residential	1,378,819	1,378,648	-0.01%	1,464,373	1,469,093	0.32%	1,435,147	1,440,289	0.36%
Commercial	1,349,208	1,352,888	0.27%	1,376,741	1,381,755	0.36%	1,354,545	1,360,877	0.47%
Industrial	946,443	984,298	4.00%	953,076	1,000,673	4.99%	952,149	1,002,353	5.27%
Transportation	7,524	7,523	-0.02%	7,738	7,665	-0.94%	7,697	7,632	-0.84%
Total	**3,681,995**	**3,723,356**	**1.12%**	**3,801,928**	**3,859,185**	**1.51%**	**3,749,538**	**3,811,150**	**1.64%**
Revenue (Million Dollars)									
Residential	177,860	177,661	-0.11%	188,742	189,033	0.15%	187,102	187,436	0.18%
Commercial	144,108	144,242	0.09%	146,696	147,425	0.50%	144,452	145,280	0.57%
Industrial	65,394	67,691	3.51%	66,090	69,218	4.73%	65,033	68,285	5.00%
Transportation	727	728	0.15%	756	744	-1.65%	749	737	-1.54%
Total	**388,089**	**390,322**	**0.58%**	**402,283**	**406,420**	**1.03%**	**397,337**	**401,738**	**1.11%**
Average Retail Price (Cents/kWh)									
Residential	12.90	12.89	-0.10%	12.89	12.87	-0.17%	13.04	13.01	-0.18%
Commercial	10.68	10.66	-0.18%	10.66	10.67	0.13%	10.66	10.68	0.10%
Industrial	6.91	6.88	-0.47%	6.93	6.92	-0.25%	6.83	6.81	-0.26%
Transportation	9.67	9.68	0.17%	9.77	9.70	-0.71%	9.73	9.66	-0.70%
Total	**10.54**	**10.48**	**-0.54%**	**10.58**	**10.53**	**-0.47%**	**10.60**	**10.54**	**-0.53%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	634,118	642,364	1.30%	594,683	596,215	0.26%	555,022	560,153	0.92%
Petroleum Liquids (1,000 barrels)	15,619	16,127	3.25%	19,717	22,290	13.05%	14,319	14,711	2.74%
Petroleum Coke (1,000 tons)	3,309	3,309	0.00%	3,010	3,010	0.00%	1,969	1,969	0.00%
Natural Gas (1,000 Mcf)	8,050,520	9,628,733	19.60%	10,039,232	10,885,764	8.43%	10,786,472	11,693,486	8.41%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.08	2.06	-0.87%	2.06	2.06	-0.22%	2.02	2.02	-0.21%
Petroleum Liquids (1,000 barrels)	11.82	11.86	0.36%	14.24	14.40	1.16%	13.58	13.62	0.29%
Petroleum Coke (1,000 tons)	2.13	2.13	0.00%	2.54	2.54	0.00%	1.91	1.91	0.00%
Natural Gas (1,000 Mcf)	3.39	3.37	-0.55%	3.55	3.55	0.03%	2.89	2.88	-0.17%

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 2019 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.