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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	Eric Harrison
U.S. electric fossil-fuel costs	Eric Harrison
U.S. sales of electricity to ultimate consumers	Alexander Gorski
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 Energy Production, Conversion & Delivery (EPCD), Energy Information Administration (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."

Figure Index

- 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

Table 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-Scale Facility 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 Photovoltaic 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

Chapter 7. Imports and Exports

Table 7.1.	U.S. Electricity Imports from and Electricity Exports to Canada and Mexico (Megawatthours)
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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 Served 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, 2022 and 2021

Net Generation and Consumption of Fuels for December														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	73,164	60,025	21.9%	56,045	43,993	16,657	15,573	24	21	438	438	0	0
Petroleum Liquids	Utility Scale Facilities	3,815	969	293.9%	2,016	688	1,663	241	NM	9	120	31	0	0
Petroleum Coke	Utility Scale Facilities	785	591	32.8%	636	432	119	132	1	1	29	26	0	0
Natural Gas	Utility Scale Facilities	141,138	127,644	10.6%	69,703	62,548	62,629	56,028	629	619	8,177	8,448	0	0
Other Gas	Utility Scale Facilities	1,043	930	12.2%	0	0	270	232	0	0	773	697	0	0
Nuclear	Utility Scale Facilities	69,094	70,720	-2.3%	38,335	39,244	30,759	31,476	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	21,870	23,562	-7.2%	19,767	21,635	1,998	1,834	23	22	82	70	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	52,394	52,094	0.6%	8,927	9,191	41,097	40,414	289	297	2,082	2,193	0	0
... Wind	Utility Scale Facilities	39,282	39,849	-1.4%	7,457	7,842	31,799	31,979	15	16	12	13	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	7,033	6,091	15.5%	994	883	5,993	5,172	33	29	13	8	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,114	3,134	-0.6%	318	276	802	748	12	17	1,983	2,092	0	0
... Other Biomass	Utility Scale Facilities	1,402	1,536	-8.8%	82	103	1,074	1,175	172	178	74	80	0	0
... Geothermal	Utility Scale Facilities	1,564	1,484	5.3%	77	88	1,429	1,340	58	57	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-554	-445	24.5%	-443	-338	-111	-107	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	875	1,073	-18.4%	24	46	490	563	94	105	267	359	0	0
All Energy Sources	Utility Scale Facilities	363,625	337,162	7.8%	195,010	177,439	155,572	146,385	1,075	1,074	11,968	12,264	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	3,501	2,970	17.9%	0	0	0	0	967	895	230	219	2,304	1,857
Estimated Total Solar Photovoltaic	All Facilities	10,435	8,969	16.3%	994	882	5,894	5,080	1,000	924	243	226	2,304	1,857
Estimated Total Solar	All Facilities	10,534	9,061	16.3%	994	883	5,993	5,172	1,000	924	243	226	2,304	1,857
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	41,491	34,469	20.4%	31,465	24,894	9,877	9,431	7	7	142	138	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	6,978	1,811	285.3%	4,069	1,349	2,731	407	33	21	144	34	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	307	247	24.2%	254	178	43	58	0	0	9	10	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,016,315	904,955	12.3%	519,550	460,260	443,074	388,717	3,976	3,828	49,716	52,149	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,052	967	8.8%	217	209	48	60	42	42	745	656	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	493	173	185.1%	23	6	58	24	125	30	287	112	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	56	65	-13.6%	0	4	9	9	1	2	46	50	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	105,185	107,155	-1.8%	4,515	4,397	26,207	26,346	6,207	6,241	68,256	70,171	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	42,544	35,436	20.1%	31,682	25,103	9,926	9,490	49	49	887	795	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	7,470	1,984	276.5%	4,091	1,355	2,790	431	158	51	431	147	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	362	311	16.4%	255	183	51	67	2	2	55	60	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,121,500	1,012,109	10.8%	524,065	464,658	469,280	415,062	10,182	10,069	117,972	122,320	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	90,449	92,782	-2.5%	75,937	75,231	14,026	16,653	63	103	423	795	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	23,466	27,822	-15.7%	13,123	15,636	8,528	10,368	367	460	1,448	1,359	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	459	512	-10.2%	298	290	6	12	1	2	154	207	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for December									
Total U.S. Electric Power Industry									
Sector	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)		
	December 2022	December 2021	Percentage Change	December 2022	December 2021	Percentage Change	December 2022	December 2021	Percentage Change
Residential	132,982	117,696	13.0%	19,889	16,150	23.2%	14.96	13.72	9.0%
Commercial	111,783	106,516	4.9%	13,881	11,876	16.9%	12.42	11.15	11.4%
Industrial	80,396	82,655	-2.7%	6,937	5,832	18.9%	8.63	7.06	22.2%
Transportation	592	521	13.7%	68	55	24.9%	11.52	10.49	9.8%
All Sectors	325,753	307,387	6.0%	40,776	33,914	20.2%	12.52	11.03	13.5%

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 2022 and 2021

Net Generation and Consumption of Fuels for January through December														
Fuel	Facility Type	Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
		December 2022 YTD	December 2021 YTD	Percentage Change	Electric Utilities		Independent Power Producers		December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
					December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD						
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	828,993	897,885	-7.7%	620,878	674,804	202,529	217,522	275	280	5,311	5,278	0	0
Petroleum Liquids	Utility Scale Facilities	16,274	11,665	39.5%	10,411	8,791	5,299	2,380	89	94	475	400	0	0
Petroleum Coke	Utility Scale Facilities	7,109	7,511	-5.4%	5,383	5,728	1,342	1,413	10	4	374	367	0	0
Natural Gas	Utility Scale Facilities	1,689,465	1,579,361	7.0%	832,401	777,057	753,767	699,717	7,366	7,346	95,929	95,240	0	0
Other Gas	Utility Scale Facilities	11,884	11,397	4.3%	0	12	3,450	3,292	0	0	8,434	8,093	0	0
Nuclear	Utility Scale Facilities	771,537	778,188	-0.9%	427,933	429,227	343,604	348,961	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	261,999	251,585	4.1%	240,726	228,689	20,112	21,702	292	258	870	936	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	650,870	563,682	15.5%	103,341	89,249	518,926	445,396	3,648	3,576	24,955	25,461	0	0
... Wind	Utility Scale Facilities	434,812	378,197	15.0%	80,322	70,338	354,191	307,579	172	168	127	112	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	145,598	115,258	26.3%	17,661	13,911	126,954	100,612	706	598	277	137	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	36,569	36,463	0.3%	3,310	2,796	9,312	9,101	175	153	23,772	24,413	0	0
... Other Biomass	Utility Scale Facilities	16,889	17,790	-5.1%	1,052	1,197	13,005	13,637	2,053	2,156	779	800	0	0
... Geothermal	Utility Scale Facilities	17,002	15,975	6.4%	995	1,007	15,465	14,466	542	502	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-6,034	-5,112	18.0%	-4,758	-3,876	-1,276	-1,235	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	11,038	12,140	-9.1%	313	508	5,898	6,449	1,171	1,209	3,656	3,975	0	0
All Energy Sources	Utility Scale Facilities	4,243,136	4,108,303	3.3%	2,236,628	2,210,187	1,853,652	1,745,598	12,852	12,768	140,005	139,750	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	58,512	49,164	19.0%	0	0	0	0	17,093	15,124	4,067	3,858	37,351	30,182
Estimated Total Solar Photovoltaic	All Facilities	201,107	161,499	24.5%	17,633	13,883	123,979	97,717	17,800	15,722	4,344	3,994	37,351	30,182
Estimated Total Solar	All Facilities	204,110	164,422	24.1%	17,661	13,911	126,954	100,612	17,800	15,722	4,344	3,994	37,351	30,182
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	468,779	500,298	-6.3%	348,344	372,694	118,644	125,851	84	87	1,706	1,666	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	29,207	21,634	35.0%	19,909	16,850	8,541	4,102	225	250	532	432	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,887	3,070	-6.0%	2,271	2,323	490	618	3	1	123	127	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	12,384,883	11,503,839	7.7%	6,342,093	5,876,442	5,411,303	4,996,517	44,868	45,536	586,618	585,344	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	11,805	11,301	4.5%	2,229	2,153	720	667	424	447	8,432	8,034	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,545	2,072	22.8%	123	80	368	278	459	331	1,595	1,384	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	734	760	-3.5%	23	21	121	113	13	6	577	621	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,206,012	1,222,267	-1.3%	51,514	49,103	313,065	308,223	68,143	71,093	773,290	793,848	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	480,584	511,600	-6.1%	350,574	374,848	119,364	126,518	508	534	10,138	9,700	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	31,751	23,706	33.9%	20,032	16,929	8,909	4,380	684	580	2,127	1,816	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,620	3,830	-5.5%	2,294	2,344	610	731	16	7	699	748	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	13,590,895	12,726,106	6.8%	6,393,607	5,925,545	5,724,368	5,304,740	113,012	116,628	1,359,908	1,379,192	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through December									
Sector	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)		
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	Percentage Change
Residential	1,521,886	1,470,487	3.5%	230,174	200,834	14.6%	15.12	13.66	10.7%
Commercial	1,373,031	1,328,439	3.4%	172,257	149,008	15.6%	12.55	11.22	11.9%
Industrial	1,007,533	1,000,613	0.7%	85,171	71,835	18.6%	8.45	7.18	17.7%
Transportation	6,602	6,334	4.2%	770	646	19.1%	11.66	10.20	14.3%
All Sectors	3,909,053	3,805,874	2.7%	488,371	422,323	15.6%	12.49	11.10	12.5%

YTD = Year to Date

NM = Not meaningful due to large relative standard error.

W = Withheld to avoid disclosure of individual company data.

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

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

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

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

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

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

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

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

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

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

Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2022 and 2021

Total (All Sectors)										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
Coal (1000 tons)	36,921	39,329	50.56	39.06	207	234	463,950	461,277	44.95	37.48
Petroleum Liquids (1000 barrels)	2,297	1,621	128.86	101.69	161	210	17,206	16,295	143.77	87.98
Petroleum Coke (1000 tons)	187	163	118.73	110.86	5	4	2,286	2,296	122.99	89.27
Natural Gas (1000 Mcf)	954,447	926,980	9.30	5.83	585	775	11,497,833	11,566,909	7.45	5.38

Electric Utilities										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
Coal (1000 tons)	27,315	28,701	51.85	39.93	149	163	343,535	338,205	46.12	38.68
Petroleum Liquids (1000 barrels)	1,079	1,013	138.84	101.92	95	136	11,402	11,468	148.07	87.56
Petroleum Coke (1000 tons)	187	163	118.73	110.86	5	4	2,283	2,296	122.99	89.27
Natural Gas (1000 Mcf)	467,169	444,263	9.44	5.76	307	411	5,636,696	5,713,855	7.75	5.39

Independent Power Producers										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
Coal (1000 tons)	9,000	10,053	45.94	35.96	43	55	113,697	116,280	40.68	33.35
Petroleum Liquids (1000 barrels)	1,162	577	118.52	101.93	55	64	5,425	4,441	136.05	89.82
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	419,740	407,135	9.67	6.11	232	316	5,067,096	5,065,664	7.17	5.49

Commercial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
Coal (1000 tons)	1	1	96.94	70.46	1	1	12	11	94.87	69.50
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	821	830	3.86	3.80	3	3	8,322	8,528	4.02	3.56

Industrial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
Coal (1000 tons)	605	575	60.37	49.10	14	15	6,706	6,781	56.86	48.60
Petroleum Liquids (1000 barrels)	56	31	117.88	89.71	11	10	380	387	114.66	79.39
Petroleum Coke (1000 tons)	0	0	--	--	0	0	3	0	124.88	--
Natural Gas (1000 Mcf)	66,717	74,751	6.52	5.01	43	45	785,719	778,861	6.76	4.79

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, 2022 and 2021

Total (All Sectors)												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021		
Coal	703,103	741,239	2.65	2.07	207	234	8,789,763	8,750,410	2.37	1.98		
Petroleum Liquids	13,812	9,585	21.37	17.19	161	210	103,963	97,425	23.77	14.71		
Petroleum Coke	5,298	4,634	4.19	3.89	5	4	64,689	64,891	4.35	3.16		
Natural Gas	988,124	958,247	8.98	5.64	585	775	11,867,162	11,955,117	7.22	5.20		
Fossil Fuels	1,710,338	1,713,705	6.31	4.09	709	935	20,825,577	20,867,843	5.13	3.82		

Electric Utilities												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021		
Coal	524,313	543,259	2.70	2.11	149	163	6,551,848	6,448,846	2.42	2.03		
Petroleum Liquids	6,504	6,002	23.03	17.21	95	136	69,169	69,111	24.41	14.53		
Petroleum Coke	5,298	4,634	4.19	3.89	5	4	64,607	64,891	4.35	3.16		
Natural Gas	483,403	458,949	9.12	5.57	307	411	5,811,067	5,901,472	7.52	5.21		
Fossil Fuels	1,019,518	1,012,844	5.87	3.77	392	520	12,496,691	12,484,321	4.91	3.60		

Independent Power Producers												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021		
Coal	166,232	185,947	2.48	1.94	43	55	2,099,335	2,159,810	2.20	1.79		
Petroleum Liquids	6,967	3,391	19.65	17.33	55	64	32,466	25,933	22.66	15.38		
Petroleum Coke	0	0	--	--	0	0	0	0	--	--		
Natural Gas	435,184	421,552	9.32	5.90	232	316	5,240,150	5,243,722	6.93	5.30		
Fossil Fuels	608,383	610,890	7.26	4.61	269	365	7,371,951	7,429,465	5.44	4.16		

Commercial Sector												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021		
Coal	15	33	4.28	3.07	1	1	268	262	4.17	3.03		
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--		
Petroleum Coke	0	0	--	--	0	0	0	0	--	--		
Natural Gas	850	864	3.73	3.65	3	3	8,636	8,869	3.88	3.42		
Fossil Fuels	865	896	3.74	3.63	3	3	8,904	9,131	3.89	3.41		

Industrial Sector												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021		
Coal	12,543	12,001	2.91	2.35	14	15	138,312	141,492	2.76	2.33		
Petroleum Liquids	342	192	19.42	14.41	11	10	2,327	2,380	18.70	12.90		
Petroleum Coke	0	0	--	--	0	0	82	0	4.46	--		
Natural Gas	68,687	76,882	6.33	4.87	43	45	807,309	801,054	6.58	4.65		
Fossil Fuels	81,572	89,075	5.86	4.55	45	47	948,031	944,926	6.05	4.33		

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), 2012-December 2022
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Small Scale Generation	Net Generation From Utility and Small Scale Facilities		
	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															
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	1,126,635	12,022	797,166	259,367	17,691	261,522	-6,174	13,393	4,093,564	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,334,668	13,117	797,178	249,080	24,893	270,268	-5,091	13,955	4,078,714	14,139	35,805	39,032
2016	1,239,149	13,008	11,197	1,379,271	12,807	805,694	267,812	36,054	305,579	-6,686	13,689	4,077,574	18,812	51,483	54,866
2017	1,205,835	12,414	8,976	1,297,703	12,469	804,950	300,333	53,287	332,963	-6,495	13,008	4,035,443	23,990	74,008	77,277
2018	1,149,487	16,245	8,981	1,471,843	13,463	807,084	292,524	63,825	350,467	-5,905	12,973	4,180,988	29,539	89,773	93,365
2019	964,957	11,522	6,819	1,588,533	12,591	809,409	287,874	71,937	368,862	-5,261	13,331	4,130,574	34,957	103,676	106,894
2020	773,393	9,662	7,679	1,626,790	11,818	789,879	285,274	89,199	408,539	-5,321	12,855	4,009,767	41,522	127,588	130,721
2021	897,885	11,665	7,511	1,579,361	11,397	778,188	251,585	115,258	448,424	-5,112	12,140	4,108,303	49,164	161,499	164,422
2022	828,993	16,274	7,109	1,689,465	11,884	771,537	261,999	145,598	505,272	-6,034	11,038	4,243,136	58,512	201,107	204,110
Year 2020															
January	65,140	915	633	136,084	1,155	74,170	24,498	4,459	34,249	-377	1,093	342,019	2,313	6,665	6,771
February	56,201	749	540	128,018	1,152	65,911	25,868	5,561	34,973	-247	971	319,698	2,623	8,006	8,184
March	50,731	691	704	126,187	1,047	63,997	23,823	6,350	35,602	-353	1,092	309,870	3,424	9,581	9,774
April	40,675	626	614	110,564	802	59,170	23,194	7,921	35,533	-325	1,073	279,846	3,816	11,431	11,736
May	46,527	691	610	117,186	884	64,338	29,976	9,653	34,248	-367	1,090	304,837	4,267	13,508	13,921
June	65,283	818	801	143,055	867	67,205	27,999	9,654	35,766	-499	1,018	351,967	4,269	13,553	13,923
July	89,709	914	837	181,568	937	69,385	26,742	10,610	28,761	-686	1,093	409,871	4,405	14,586	15,015
August	91,145	887	787	173,644	1,094	68,982	23,284	9,315	29,073	-784	1,107	398,536	4,199	13,158	13,514
Sept	68,407	755	439	141,397	1,013	65,727	18,679	7,732	28,852	-525	1,016	333,493	3,722	11,185	11,454
October	59,805	876	351	131,413	918	59,362	18,810	7,085	34,439	-423	1,067	313,703	3,310	10,137	10,395
November	61,182	800	612	109,811	950	61,760	20,893	5,767	38,932	-369	1,067	301,403	2,687	8,290	8,453
December	78,588	940	751	127,863	999	69,871	21,508	5,091	38,111	-368	1,169	344,523	2,489	7,489	7,580
Year 2021															
January	81,240	933	702	126,563	1,035	71,732	24,560	5,559	36,231	-424	1,109	349,241	2,750	8,229	8,309
February	87,470	1,588	660	111,184	820	62,954	20,137	6,330	32,261	-425	921	323,899	2,939	9,135	9,270
March	61,904	791	645	106,999	860	63,708	21,220	9,296	45,129	-236	1,060	311,377	4,158	13,196	13,454
April	53,956	802	422	107,430	871	57,092	19,389	10,892	41,696	-197	969	293,322	4,610	15,168	15,502
May	63,873	836	534	114,669	914	63,394	23,309	12,457	39,602	-416	1,003	320,174	5,063	17,127	17,520
June	87,265	932	453	149,390	974	66,070	23,454	12,197	32,506	-376	1,006	373,872	5,107	16,983	17,304
July	101,537	883	681	170,214	1,046	68,832	22,098	12,192	27,811	-685	1,041	405,649	5,192	17,127	17,384
August	101,855	1,198	747	172,735	1,031	69,471	20,328	11,967	33,192	-670	1,031	412,886	4,924	16,551	16,891
Sept	78,877	951	638	138,181	984	64,520	17,022	11,214	34,783	-434	975	347,712	4,370	15,282	15,584
October	62,572	895	655	131,860	1,062	56,945	17,133	9,268	37,809	-427	982	318,754	3,821	12,866	13,089
November	57,313	887	783	122,491	871	62,749	19,373	7,795	41,400	-377	970	314,254	3,259	10,866	11,054
December	60,025	969	591	127,644	930	70,720	23,562	6,091	46,003	-445	1,073	337,162	2,970	8,969	9,061
Year 2022															
January	87,485	3,002	537	135,409	984	70,577	26,213	8,171	44,205	-493	1,017	377,106	3,247	11,285	11,418
February	70,746	1,021	625	115,538	837	61,852	22,904	9,333	43,595	-412	892	326,931	3,577	12,751	12,910
March	60,743	966	463	111,806	896	63,154	25,356	11,898	48,837	-318	971	324,772	4,900	16,543	16,798
April	55,023	745	496	105,729	914	55,290	19,573	13,476	51,401	-265	941	303,324	5,409	18,563	18,885
May	62,225	861	667	127,714	1,061	63,382	23,071	15,198	47,544	-467	959	342,215	5,946	20,773	21,145
June	73,287	912	665	156,242	998	65,715	26,892	16,058	39,525	-589	943	380,649	5,941	21,626	21,998
July	86,263	1,004	482	190,437	1,133	68,857	24,193	15,749	35,686	-768	976	424,013	6,157	21,618	21,907
August	85,000	1,022	564	189,197	1,020	68,897	21,713	14,442	30,573	-640	921	412,710	5,910	20,072	20,352
Sept	64,817	996	623	156,286	1,049	63,733	16,812	13,504	32,657	-598	843	350,722	5,282	18,501	18,786
October	54,071	990	574	133,025	985	58,945	14,638	12,252	38,226	-434	839	314,111	4,790	16,752	17,042
November	56,170	937	628	126,944	964	62,041	18,764	8,484	47,660	-495	861	322,959	3,852	12,187	12,336
December	73,164	3,815	785	141,138	1,043	69,094	21,870	7,033	45,361	-554	875	363,625	3,501	10,435	10,534
Year to Date															
2020	773,393	9,662	7,679	1,626,790	11,818	789,879	285,274	89,199	408,539	-5,321	12,855	4,009,767	41,522	127,588	130,721
2021	897,885	11,665	7,511	1,579,361	11,397	778,188	251,585	115,258	448,424	-5,112	12,140	4,108,303	49,164	161,499	164,422
2022	828,993	16,274	7,109	1,689,465	11,884	771,537	261,999	145,598	505,272	-6,034	11,038	4,243,136	58,512	201,107	204,110
Rolling 12 Months Ending in December															
2021	897,885	11,665	7,511	1,579,361	11,397	778,188	251,585	115,258	448,424	-5,112	12,140	4,108,303	49,164	161,499	164,422
2022	828,993	16,274	7,109	1,689,465	11,884	771,537	261,999	145,598	505,272	-6,034	11,038	4,243,136	58,512	201,107	204,110

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 2021 and prior years are final. Values for 2022 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), 2012-December 2022
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
	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													
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	3,289	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	295,882	68,719	3,218	38,543	10,468	6,093	2,402	15,473	287,874	728,673	34,957	103,676	106,894
2020	337,938	86,066	3,133	36,219	10,212	6,080	2,201	15,890	285,274	783,012	41,522	127,588	130,721
2021	378,197	112,335	2,924	36,463	9,421	6,101	2,267	15,975	251,585	815,267	49,164	161,499	164,422
2022	434,812	142,596	3,003	36,569	8,938	5,789	2,163	17,002	261,999	912,870	58,512	201,107	204,110
Year 2020													
January	28,121	4,353	106	3,326	921	520	213	1,148	24,498	63,206	2,313	6,665	6,771
February	29,110	5,383	178	3,120	855	464	194	1,230	25,868	66,402	2,623	8,006	8,184
March	29,320	6,157	193	3,170	911	535	201	1,465	23,823	65,774	3,424	9,581	9,774
April	29,752	7,615	305	2,844	872	504	182	1,379	23,194	66,648	3,816	11,431	11,736
May	28,378	9,241	413	2,919	882	517	190	1,362	29,976	73,878	4,267	13,508	13,921
June	30,212	9,284	370	2,823	810	473	174	1,274	27,999	73,419	4,269	13,553	13,923
July	22,866	10,181	429	3,022	841	527	173	1,331	26,742	66,113	4,405	14,586	15,015
August	23,029	8,960	356	3,160	852	538	171	1,323	23,284	61,672	4,199	13,158	13,514
Sept	23,186	7,463	289	2,895	816	492	174	1,288	18,679	55,263	3,722	11,185	11,454
October	28,823	6,827	258	2,840	820	486	183	1,288	18,810	60,335	3,310	10,137	10,395
November	33,129	5,603	164	2,951	796	488	169	1,399	20,893	65,591	2,687	8,290	8,453
December	32,011	5,000	91	3,148	838	535	177	1,403	21,508	64,710	2,489	7,489	7,580
Year 2021													
January	30,060	5,479	80	3,229	860	530	205	1,347	24,560	66,350	2,750	8,229	8,309
February	26,716	6,196	134	2,859	759	457	183	1,287	20,137	58,728	2,939	9,135	9,270
March	39,205	9,038	259	3,108	845	520	209	1,242	21,220	75,646	4,158	13,196	13,454
April	36,158	10,558	334	2,785	779	506	180	1,288	19,389	71,977	4,610	15,168	15,502
May	33,787	12,064	393	2,966	806	517	191	1,335	23,309	75,368	5,063	17,127	17,520
June	26,672	11,876	321	3,088	773	518	179	1,277	23,454	68,157	5,107	16,983	17,304
July	21,716	11,934	257	3,248	792	525	179	1,351	22,098	62,100	5,192	17,127	17,384
August	27,071	11,626	341	3,315	776	519	175	1,337	20,328	65,487	4,924	16,551	16,891
Sept	28,998	10,912	302	3,005	754	497	185	1,343	17,022	63,020	4,370	15,282	15,584
October	32,215	9,045	223	2,835	751	500	188	1,319	17,133	64,210	3,821	12,866	13,089
November	35,751	7,607	188	2,890	723	480	190	1,366	19,373	68,568	3,259	10,866	11,054
December	39,849	5,999	92	3,134	803	533	201	1,484	23,562	75,656	2,970	8,969	9,061
Year 2022													
January	38,080	8,038	133	3,089	783	494	192	1,566	26,213	78,588	3,247	11,285	11,418
February	37,984	9,174	159	2,981	714	434	172	1,310	22,904	75,832	3,577	12,751	12,910
March	43,014	11,642	256	3,012	775	467	192	1,376	25,356	86,091	4,900	16,543	16,798
April	45,960	13,154	322	2,731	726	484	168	1,333	19,573	84,450	5,409	18,563	18,885
May	41,668	14,827	371	3,052	773	492	176	1,384	23,071	85,814	5,946	20,773	21,145
June	33,483	15,686	372	3,239	765	498	177	1,363	26,892	82,475	5,941	21,626	21,998
July	29,302	15,461	288	3,478	769	511	189	1,438	24,193	75,629	6,157	21,618	21,907
August	24,355	14,162	279	3,351	751	498	177	1,442	21,713	66,728	5,910	20,072	20,352
Sept	27,032	13,219	285	2,871	718	469	155	1,412	16,812	62,973	5,282	18,501	18,786
October	32,824	11,962	290	2,647	748	474	189	1,344	14,638	65,116	4,790	16,752	17,042
November	41,826	8,335	149	3,004	703	474	184	1,469	18,764	74,909	3,852	12,187	12,336
December	39,282	6,934	99	3,114	714	494	194	1,564	21,870	74,264	3,501	10,435	10,534
Year to Date													
2020	337,938	86,066	3,133	36,219	10,212	6,080	2,201	15,890	285,274	783,012	41,522	127,588	130,721
2021	378,197	112,335	2,924	36,463	9,421	6,101	2,267	15,975	251,585	815,267	49,164	161,499	164,422
2022	434,812	142,596	3,003	36,569	8,938	5,789	2,163	17,002	261,999	912,870	58,512	201,107	204,110
Rolling 12 Months Ending in December													
2021	378,197	112,335	2,924	36,463	9,421	6,101	2,267	15,975	251,585	815,267	49,164	161,499	164,422
2022	434,812	142,596	3,003	36,569	8,938	5,789	2,163	17,002	261,999	912,870	58,512	201,107	204,110

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Total
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	
Annual Totals												
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	501,440	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,500
2015	998,385	10,386	8,278	619,003	199	416,680	229,640	1,494	35,992	-4,105	558	2,316,508
2016	922,399	9,069	8,881	655,744	154	424,400	247,787	1,995	40,666	-5,629	421	2,305,887
2017	893,639	8,567	6,711	625,094	149	424,485	275,677	3,348	42,763	-5,448	553	2,275,539
2018	863,505	10,108	6,817	722,916	151	424,251	267,336	4,916	44,184	-4,785	561	2,339,960
2019	722,885	8,313	5,112	787,745	154	430,672	262,364	6,785	48,403	-4,261	551	2,268,723
2020	582,374	7,182	5,663	815,414	45	428,953	264,650	9,945	59,797	-4,326	618	2,170,316
2021	674,804	8,791	5,728	777,057	12	429,227	228,689	13,911	75,338	-3,876	508	2,210,187
2022	620,878	10,411	5,383	832,401	0	427,933	240,726	17,661	85,680	-4,758	313	2,236,628
Year 2020												
January	48,396	749	493	67,674	0	40,721	22,509	540	4,647	-325	55	185,460
February	41,703	574	366	64,327	8	36,079	23,948	611	5,264	-182	53	172,751
March	38,368	484	521	64,323	19	35,133	21,612	795	5,045	-252	53	166,102
April	29,904	437	455	56,884	6	32,827	20,901	910	4,988	-252	47	147,107
May	34,966	509	436	61,430	8	34,392	27,694	1,086	4,690	-273	52	164,989
June	49,771	612	647	72,469	1	36,388	26,532	1,013	5,087	-420	43	192,144
July	69,484	677	664	89,966	6	37,583	25,226	1,052	3,708	-595	53	227,824
August	71,205	671	607	86,083	0	37,544	21,967	955	4,194	-675	57	222,608
Sept	53,212	571	289	68,800	0	36,043	17,567	823	4,765	-438	43	181,674
October	44,186	666	169	65,427	0	31,641	17,451	775	5,420	-346	48	165,437
November	43,774	586	438	54,351	-1	32,605	19,456	676	6,231	-281	55	157,891
December	57,404	645	578	63,681	-1	37,995	19,787	710	5,758	-287	59	186,330
Year 2021												
January	60,119	732	538	62,011	-1	39,472	22,459	757	5,644	-333	45	191,445
February	66,231	1,188	537	53,913	5	34,339	18,612	791	5,417	-339	34	180,728
March	46,241	599	505	53,746	9	35,325	18,971	1,152	7,195	-142	43	163,643
April	40,784	611	261	54,243	0	30,126	17,256	1,354	6,927	-102	46	151,506
May	49,417	635	360	57,584	0	33,491	21,178	1,550	6,488	-323	40	170,419
June	66,424	672	340	74,852	0	36,854	21,827	1,293	5,141	-270	43	207,176
July	76,452	652	539	84,947	0	38,371	20,109	1,394	4,414	-551	35	226,361
August	77,465	935	600	85,233	0	38,752	18,598	1,325	5,402	-531	47	227,827
Sept	60,311	740	482	66,832	0	35,306	15,289	1,265	6,036	-313	45	185,991
October	45,722	690	514	62,206	0	33,066	15,383	1,155	6,505	-333	43	164,951
November	41,646	647	620	58,942	0	34,882	17,373	992	7,861	-302	41	162,702
December	43,993	688	432	62,548	0	39,244	21,635	883	8,309	-338	46	177,439
Year 2022												
January	63,860	1,308	388	66,691	0	39,295	24,187	1,082	8,162	-420	34	204,586
February	50,816	683	453	55,458	0	34,300	20,933	1,198	7,993	-301	31	171,564
March	42,888	730	324	54,085	0	34,385	22,978	1,533	8,518	-214	34	165,261
April	39,971	571	361	51,449	0	30,252	17,546	1,703	8,548	-164	30	150,268
May	47,863	694	503	62,727	0	35,037	21,197	1,834	7,448	-375	32	176,959
June	56,861	702	545	79,422	0	36,908	25,057	1,816	6,043	-460	19	206,913
July	66,568	727	388	96,224	0	38,888	22,854	1,802	5,178	-623	20	232,027
August	64,301	734	421	94,122	0	38,921	20,211	1,709	4,836	-495	20	224,779
Sept	49,585	764	480	75,879	0	35,914	15,445	1,481	5,687	-493	19	184,762
October	40,990	754	440	64,128	0	32,085	13,359	1,468	6,751	-370	29	159,634
November	41,130	728	446	62,514	0	33,612	17,190	1,042	8,582	-398	23	164,868
December	56,045	2,016	636	69,703	0	38,335	19,767	994	7,933	-443	24	195,010
Year to Date												
2020	582,374	7,182	5,663	815,414	45	428,953	264,650	9,945	59,797	-4,326	618	2,170,316
2021	674,804	8,791	5,728	777,057	12	429,227	228,689	13,911	75,338	-3,876	508	2,210,187
2022	620,878	10,411	5,383	832,401	0	427,933	240,726	17,661	85,680	-4,758	313	2,236,628
Rolling 12 Months Ending in December												
2021	674,804	8,791	5,728	777,057	12	429,227	228,689	13,911	75,338	-3,876	508	2,210,187
2022	620,878	10,411	5,383	832,401	0	427,933	240,726	17,661	85,680	-4,758	313	2,236,628

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities										Total	
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage		Other
Annual Totals												
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	6,622	1,554,462
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,765	1,603,898
2016	307,263	3,360	1,401	624,600	3,758	381,294	18,539	33,502	233,553	-1,057	6,876	1,613,090
2017	304,198	3,281	1,480	572,919	3,978	380,465	23,034	49,376	258,962	-1,047	6,439	1,603,086
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	7,138	1,699,625
2020	185,328	1,984	1,504	706,885	3,129	360,925	19,409	78,567	319,633	-995	6,971	1,683,340
2021	217,522	2,380	1,413	699,717	3,292	348,961	21,702	100,612	344,783	-1,235	6,449	1,745,598
2022	202,529	5,299	1,342	753,767	3,450	343,604	20,112	126,954	391,972	-1,276	5,898	1,853,652
Year 2020												
January	16,168	121	90	58,750	357	33,448	1,869	3,883	27,010	-52	605	142,251
February	13,962	124	135	54,868	359	29,832	1,794	4,908	27,248	-65	541	133,704
March	11,863	170	143	53,018	274	28,864	2,071	5,502	28,000	-101	617	130,421
April	10,330	137	132	45,761	166	26,343	2,165	6,948	28,162	-73	590	120,661
May	11,124	145	136	47,731	172	29,946	2,158	8,490	27,171	-94	579	127,557
June	15,092	168	111	61,993	156	30,817	1,372	8,563	28,378	-79	534	147,105
July	19,762	197	129	82,313	176	31,802	1,431	9,476	22,691	-91	601	168,487
August	19,491	183	134	78,246	316	31,438	1,237	8,291	22,480	-109	609	162,314
Sept	14,713	151	105	64,220	296	29,684	1,043	6,850	21,756	-87	562	139,294
October	15,153	168	135	57,833	213	27,721	1,292	6,259	26,636	-77	560	135,894
November	16,974	171	128	47,260	297	29,154	1,355	5,049	30,300	-88	555	131,155
December	20,697	249	126	54,893	347	31,876	1,622	4,348	29,802	-81	617	144,496
Year 2021												
January	20,645	156	124	55,214	337	32,261	1,989	4,766	28,106	-92	586	144,094
February	20,795	330	90	49,942	190	28,615	1,441	5,502	24,726	-86	516	132,062
March	15,206	149	104	45,519	188	28,384	2,124	8,081	35,500	-94	576	135,737
April	12,755	153	131	45,597	270	26,966	2,023	9,464	32,452	-95	519	130,234
May	14,000	162	136	49,077	289	29,903	2,024	10,827	30,751	-93	535	137,611
June	20,363	225	87	65,715	322	29,216	1,544	10,826	25,029	-106	537	153,759
July	24,606	195	114	75,670	312	30,461	1,889	10,720	20,990	-134	546	165,369
August	23,918	222	122	78,000	331	30,719	1,639	10,565	25,329	-139	532	171,238
Sept	18,077	179	130	63,008	299	29,214	1,640	9,880	26,399	-120	512	149,217
October	16,402	166	112	61,119	343	23,879	1,657	8,055	29,020	-93	535	141,193
November	15,183	203	131	54,828	180	27,867	1,899	6,755	31,239	-76	493	138,701
December	15,573	241	132	56,028	232	31,476	1,834	5,172	35,242	-107	563	146,385
Year 2022												
January	23,140	1,638	116	59,218	278	31,282	1,916	7,031	33,613	-73	526	158,687
February	19,485	297	135	51,878	235	27,552	1,872	8,072	33,403	-111	459	143,278
March	17,363	201	NM	49,045	256	28,768	2,269	10,285	37,985	-103	490	146,672
April	14,624	142	107	46,463	280	25,037	1,932	11,682	40,593	-101	501	141,260
May	13,870	131	127	56,790	371	28,345	1,770	13,266	37,733	-92	502	152,815
June	15,942	171	91	68,497	285	28,807	1,729	14,134	31,087	-129	507	161,122
July	19,197	235	64	85,100	358	29,969	1,246	13,843	28,026	-146	526	178,418
August	20,190	250	112	85,857	278	29,976	1,404	12,635	23,316	-145	504	174,379
Sept	14,783	193	112	72,095	316	27,819	1,286	11,928	24,888	-105	473	153,789
October	12,653	201	103	60,492	274	26,860	1,204	10,698	29,455	-64	461	142,338
November	14,624	176	143	55,701	247	28,430	1,486	7,386	36,768	-97	459	145,323
December	16,657	1,663	119	62,629	270	30,759	1,998	5,993	35,104	-111	490	155,572
Year to Date												
2020	185,328	1,984	1,504	706,885	3,129	360,925	19,409	78,567	319,633	-995	6,971	1,683,340
2021	217,522	2,380	1,413	699,717	3,292	348,961	21,702	100,612	344,783	-1,235	6,449	1,745,598
2022	202,529	5,299	1,342	753,767	3,450	343,604	20,112	126,954	391,972	-1,276	5,898	1,853,652
Rolling 12 Months Ending in December												
2021	217,522	2,380	1,413	699,717	3,292	348,961	21,702	100,612	344,783	-1,235	6,449	1,745,598
2022	202,529	5,299	NM	753,767	3,450	343,604	20,112	126,954	391,972	-1,276	5,898	1,853,652

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 2021 and prior years are final. Values for 2022 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.

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Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2012-December 2022
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Small Scale Generation	Net Generation From Utility and Small Scale Facilities		
	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															
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
2020	240	97	2	8,110	0	0	214	586	2,761	0	1,035	13,046	12,859	13,445	13,445
2021	280	94	4	7,346	0	0	258	598	2,978	0	1,209	12,768	15,124	15,722	15,722
2022	275	89	10	7,366	0	0	292	706	2,942	0	1,171	12,852	17,093	17,800	17,800
Year 2020															
January	25	10	2	731	0	0	18	32	238	0	90	1,145	736	767	767
February	31	6	1	669	0	0	18	37	231	0	80	1,074	833	871	871
March	24	7	0	623	0	0	17	46	246	0	88	1,050	1,082	1,128	1,128
April	13	5	0	546	0	0	17	54	226	0	81	943	1,189	1,244	1,244
May	14	9	0	578	0	0	23	66	234	0	89	1,012	1,309	1,375	1,375
June	17	7	0	685	0	0	22	66	222	0	84	1,103	1,305	1,371	1,371
July	16	10	0	855	0	0	21	69	231	0	91	1,293	1,355	1,424	1,424
August	15	10	0	819	0	0	18	59	232	0	90	1,241	1,301	1,360	1,360
Sept	23	8	0	695	0	0	14	50	223	0	83	1,097	1,159	1,209	1,209
October	17	8	0	638	0	0	14	43	227	0	84	1,032	1,011	1,055	1,055
November	20	8	0	596	0	0	15	36	227	0	85	987	804	840	840
December	26	10	0	675	0	0	16	28	224	0	90	1,069	774	802	802
Year 2021															
January	26	10	0	638	0	0	25	30	258	0	109	1,096	865	895	895
February	34	9	1	561	0	0	22	31	230	0	85	973	935	965	965
March	25	8	0	557	0	0	23	53	227	0	96	988	1,280	1,332	1,332
April	19	9	0	484	0	0	21	61	240	0	104	938	1,416	1,477	1,477
May	13	9	0	506	0	0	23	66	249	0	100	966	1,534	1,600	1,600
June	19	7	0	647	0	0	24	64	242	0	97	1,101	1,551	1,615	1,615
July	20	8	0	729	0	0	23	65	253	0	107	1,204	1,599	1,664	1,664
August	23	7	0	764	0	0	21	61	257	0	109	1,242	1,538	1,599	1,599
Sept	25	6	0	651	0	0	19	55	254	0	105	1,115	1,373	1,428	1,428
October	29	7	1	603	0	0	17	45	247	0	90	1,040	1,194	1,239	1,239
November	26	7	1	587	0	0	18	38	253	0	102	1,031	945	983	983
December	21	9	1	619	0	0	22	29	268	0	105	1,074	895	924	924
Year 2022															
January	29	NM	1	658	0	0	29	43	272	0	102	1,148	976	1,018	1,018
February	18	6	1	569	0	0	25	47	235	0	87	987	1,076	1,123	1,123
March	18	5	1	588	0	0	NM	58	255	0	103	1,054	1,469	1,527	1,527
April	12	5	1	547	0	0	NM	66	249	0	106	1,007	1,605	1,671	1,671
May	13	6	1	572	0	0	NM	71	251	0	100	1,042	1,752	1,823	1,823
June	26	8	1	615	0	0	NM	76	242	0	104	1,102	1,753	1,829	1,829
July	25	7	1	721	0	0	31	74	238	0	98	1,194	1,825	1,899	1,899
August	30	8	0	729	0	0	NM	70	244	0	98	1,204	1,737	1,806	1,806
Sept	29	5	0	643	0	0	18	68	221	0	88	1,072	1,550	1,618	1,618
October	26	5	0	541	0	0	NM	61	223	0	96	967	1,335	1,396	1,396
November	25	5	1	556	0	0	20	40	256	0	98	999	1,048	1,088	1,088
December	24	NM	1	629	0	0	23	33	256	0	94	1,075	967	1,000	1,000
Year to Date															
2020	240	97	2	8,110	0	0	214	586	2,761	0	1,035	13,046	12,859	13,445	13,445
2021	280	94	4	7,346	0	0	258	598	2,978	0	1,209	12,768	15,124	15,722	15,722
2022	275	89	10	7,366	0	0	292	706	2,942	0	1,171	12,852	17,093	17,800	17,800
Rolling 12 Months Ending in December															
2021	280	94	4	7,346	0	0	258	598	2,978	0	1,209	12,768	15,124	15,722	15,722
2022	275	NM	10	7,366	0	0	NM	706	2,942	0	1,171	12,852	17,093	17,800	17,800

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.

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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, 2012-December 2022
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Small Scale Generation	Net Generation From Utility and Small Scale Facilities		
	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															
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
2020	5,451	398	510	96,381	8,644	0	1,001	101	26,348	0	4,231	143,064	3,484	3,586	3,586
2021	5,278	400	367	95,240	8,093	0	936	137	25,324	0	3,975	139,750	3,858	3,994	3,994
2022	5,311	475	374	95,929	8,434	0	870	277	24,678	0	3,656	140,005	4,067	4,344	4,344
Year 2020															
January	551	35	48	8,928	799	0	102	4	2,354	0	343	13,164	192	196	196
February	506	45	39	8,154	784	0	108	6	2,230	0	297	12,169	212	218	218
March	476	31	40	8,222	755	0	123	7	2,310	0	333	12,297	292	299	299
April	429	47	26	7,373	631	0	111	8	2,156	0	355	11,136	316	324	324
May	422	28	39	7,447	705	0	102	12	2,152	0	371	11,278	349	361	361
June	403	30	42	7,909	710	0	73	12	2,079	0	357	11,615	354	367	367
July	447	30	44	8,433	755	0	64	13	2,132	0	348	12,267	370	383	383
August	435	23	47	8,497	777	0	62	11	2,168	0	352	12,372	358	369	369
Sept	459	25	45	7,683	718	0	54	9	2,108	0	327	11,427	321	330	330
October	449	34	47	7,515	705	0	53	8	2,157	0	375	11,341	291	299	299
November	414	34	46	7,804	654	0	67	6	2,174	0	370	11,370	228	232	232
December	461	36	46	8,614	653	0	83	5	2,328	0	403	12,628	203	208	208
Year 2021															
January	449	36	39	8,701	698	0	86	6	2,222	0	369	12,606	216	222	222
February	410	60	33	6,767	624	0	62	7	1,888	0	286	10,136	230	237	237
March	432	35	36	7,177	663	0	103	11	2,208	0	344	11,010	330	340	340
April	399	30	30	7,107	601	0	89	12	2,077	0	300	10,645	357	370	370
May	443	30	38	7,501	626	0	84	14	2,114	0	329	11,179	394	408	408
June	459	28	26	8,176	652	0	60	13	2,093	0	329	11,837	396	409	409
July	458	29	28	8,868	735	0	76	13	2,154	0	354	12,715	405	419	419
August	449	33	25	8,739	700	0	70	15	2,204	0	344	12,579	392	407	407
Sept	464	26	26	7,691	686	0	75	15	2,094	0	313	11,389	354	369	369
October	419	32	29	7,933	719	0	76	12	2,038	0	313	11,571	319	331	331
November	459	30	31	8,134	691	0	83	11	2,047	0	334	11,820	246	257	257
December	438	31	26	8,448	697	0	70	8	2,185	0	359	12,264	219	226	226
Year 2022															
January	456	41	31	8,842	706	0	81	15	2,158	0	355	12,686	231	246	246
February	427	36	35	7,633	602	0	74	17	1,963	0	315	11,102	245	262	262
March	474	30	NM	8,088	640	0	84	22	2,078	0	343	11,785	349	371	371
April	416	27	27	7,270	633	0	75	25	2,010	0	304	10,789	378	402	402
May	478	NM	36	7,625	690	0	76	27	2,113	0	326	11,400	415	442	442
June	458	31	27	7,707	713	0	75	32	2,154	0	315	11,511	415	446	446
July	473	35	30	8,393	775	0	63	31	2,244	0	332	12,375	427	458	458
August	479	30	31	8,488	742	0	72	28	2,177	0	300	12,348	413	442	442
Sept	418	35	30	7,669	733	0	62	27	1,861	0	263	11,099	371	398	398
October	403	30	31	7,864	711	0	58	25	1,797	0	254	11,172	336	360	360
November	391	29	39	8,173	717	0	67	16	2,054	0	282	11,769	258	275	275
December	438	120	29	8,177	773	0	82	13	2,068	0	267	11,968	230	243	243
Year to Date															
2020	5,451	398	510	96,381	8,644	0	1,001	101	26,348	0	4,231	143,064	3,484	3,586	3,586
2021	5,278	400	367	95,240	8,093	0	936	137	25,324	0	3,975	139,750	3,858	3,994	3,994
2022	5,311	475	374	95,929	8,434	0	870	277	24,678	0	3,656	140,005	4,067	4,344	4,344
Rolling 12 Months Ending in December															
2021	5,278	400	367	95,240	8,093	0	936	137	25,324	0	3,975	139,750	3,858	3,994	3,994
2022	5,311	NM	NM	95,929	8,434	0	870	277	24,678	0	3,656	140,005	4,067	4,344	4,344

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 2021 and prior years are final. Values for 2022 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-December 2022
(Thousand Megawatthours)**

Period	Small Scale Generation	
		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
2020		25,179
2021		30,182
2022		37,351
Year 2020		
January		1,385
February		1,578
March		2,049
April		2,310
May		2,610
June		2,610
July		2,680
August		2,540
Sept		2,241
October		2,008
November		1,657
December		1,512
Year 2021		
January		1,669
February		1,774
March		2,549
April		2,837
May		3,135
June		3,161
July		3,188
August		2,994
Sept		2,642
October		2,308
November		2,068
December		1,857
Year 2022		
January		2,041
February		2,255
March		3,083
April		3,426
May		3,779
June		3,773
July		3,905
August		3,760
Sept		3,361
October		3,120
November		2,545
December		2,304
Year to Date		
2020		25,179
2021		30,182
2022		37,351
Rolling 12 Months Ending in December		
2021		30,182
2022		37,351

See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	8,998	8,404	7.1%	194	139	8,468	7,942	110	92	226	231
Connecticut	3,557	3,822	-6.9%	7	9	3,463	3,729	26	27	60	57
Maine	1,100	944	16.5%	NM	0	953	792	10	8	137	144
Massachusetts	2,019	1,337	51.0%	86	40	1,862	1,236	59	46	13	15
New Hampshire	1,510	1,406	7.4%	NM	1	1,501	1,396	6	6	2	2
Rhode Island	601	694	-13.4%	0	0	578	678	9	4	14	12
Vermont	211	200	5.3%	100	89	111	111	0	0	0	0
Middle Atlantic	37,351	36,349	2.8%	3,108	3,224	33,576	32,496	192	171	475	458
New Jersey	5,121	4,842	5.7%	NM	11	4,999	4,741	57	50	50	40
New York	10,910	10,516	3.8%	3,081	3,207	7,660	7,144	94	85	75	79
Pennsylvania	21,320	20,990	1.6%	13	6	20,917	20,611	40	35	350	338
East North Central	52,828	48,047	9.9%	19,487	15,776	32,278	31,187	159	153	903	932
Illinois	16,822	16,022	5.0%	375	421	16,192	15,349	41	40	214	212
Indiana	9,227	7,254	27.2%	5,887	4,136	2,942	2,710	22	21	377	387
Michigan	10,356	9,664	7.2%	7,386	6,777	2,778	2,701	65	61	127	124
Ohio	10,983	10,444	5.2%	1,603	1,042	9,304	9,323	19	13	57	66
Wisconsin	5,440	4,663	16.7%	4,237	3,399	1,063	1,104	12	17	129	142
West North Central	34,007	32,339	5.2%	25,208	23,622	8,398	8,305	60	63	341	349
Iowa	6,968	5,861	18.9%	5,557	4,756	1,229	916	19	15	163	174
Kansas	5,376	5,336	0.7%	3,103	2,824	2,246	2,493	NM	2	26	18
Minnesota	5,752	5,652	1.8%	4,127	4,024	1,504	1,504	24	30	97	95
Missouri	6,966	6,487	7.4%	6,336	5,888	611	579	15	15	4	5
Nebraska	3,606	3,499	3.1%	2,335	2,336	1,235	1,127	2	2	34	34
North Dakota	3,965	3,866	2.6%	3,097	2,914	856	933	0	0	13	18
South Dakota	1,373	1,639	-16.2%	652	880	716	753	NM	0	5	6
South Atlantic	68,710	63,202	8.7%	56,904	51,637	10,266	9,908	127	132	1,413	1,525
Delaware	387	477	-18.8%	10	2	275	385	1	1	102	90
District of Columbia	13	16	-18.6%	0	0	NM	1	12	15	0	0
Florida	19,846	18,327	8.3%	18,452	17,084	1,034	813	35	40	325	391
Georgia	10,774	9,754	10.5%	8,895	7,968	1,450	1,337	1	0	429	449
Maryland	2,957	2,923	1.2%	249	299	2,676	2,594	28	26	5	4
North Carolina	12,903	10,183	26.7%	11,364	8,564	1,374	1,436	26	23	138	160
South Carolina	8,015	7,801	2.7%	7,562	7,435	309	231	0	0	143	135
Virginia	8,378	8,015	4.5%	6,469	6,369	1,714	1,421	24	28	172	197
West Virginia	5,437	5,706	-4.7%	3,905	3,917	1,432	1,689	0	0	99	100
East South Central	31,428	28,888	8.8%	27,333	24,781	3,284	3,284	18	16	793	806
Alabama	12,125	12,406	-2.3%	8,924	9,108	2,787	2,905	0	0	414	393
Kentucky	6,471	4,990	29.7%	6,344	4,926	79	12	0	0	47	52
Mississippi	6,077	5,360	13.4%	5,627	4,932	294	249	0	0	155	180
Tennessee	6,754	6,132	10.1%	6,437	5,815	123	119	18	16	176	181
West South Central	63,629	56,296	13.0%	20,186	15,702	37,082	34,100	60	66	6,301	6,428
Arkansas	4,986	4,742	5.1%	4,449	4,182	454	461	NM	6	79	93
Louisiana	8,618	7,938	8.6%	5,484	4,904	556	473	13	15	2,564	2,546
Oklahoma	7,350	5,915	24.3%	3,088	2,059	4,189	3,776	0	0	72	80
Texas	42,675	37,701	13.2%	7,165	4,558	31,883	29,389	42	45	3,585	3,709
Mountain	32,660	30,439	7.3%	23,696	21,814	8,598	8,259	103	101	264	265
Arizona	8,713	8,109	7.5%	7,184	6,694	1,520	1,402	8	12	NM	0
Colorado	5,345	4,907	8.9%	3,763	3,360	1,562	1,527	1	1	19	18
Idaho	1,497	1,204	24.3%	930	710	513	437	6	6	48	51
Montana	2,468	2,083	18.5%	1,007	722	1,457	1,357	0	0	4	4
Nevada	3,246	3,076	5.5%	2,157	1,932	985	1,057	65	64	39	23
New Mexico	3,834	3,633	5.5%	2,115	2,075	1,705	1,548	NM	10	4	0
Utah	3,510	3,365	4.3%	3,174	2,986	297	333	12	8	27	39
Wyoming	4,047	4,063	-0.4%	3,366	3,335	557	598	0	0	123	130
Pacific Contiguous	32,625	31,770	2.7%	17,873	19,760	13,336	10,551	195	217	1,221	1,242
California	17,127	14,611	17.2%	5,727	5,404	10,240	7,977	186	206	974	1,023
Oregon	5,721	5,997	-4.6%	3,827	4,410	1,830	1,531	8	7	56	49
Washington	9,778	11,162	-12.4%	8,320	9,946	1,266	1,043	1	3	191	170
Pacific Noncontiguous	1,389	1,427	-2.6%	1,020	984	286	351	52	64	31	28
Alaska	589	646	-8.8%	527	587	22	18	29	32	10	8
Hawaii	800	781	2.4%	493	397	264	333	23	31	21	20
U.S. Total	363,625	337,162	7.8%	195,010	177,439	155,572	146,385	1,075	1,074	11,968	12,264

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	105,168	103,089	2.0%	1,566	1,535	100,053	97,816	1,161	1,133	2,388	2,606
Connecticut	43,175	44,080	-2.1%	73	113	42,214	43,008	295	314	593	645
Maine	11,665	10,908	6.9%	NM	2	10,130	9,236	104	98	1,429	1,573
Massachusetts	21,581	19,477	10.8%	623	510	20,133	18,167	635	598	190	203
New Hampshire	18,596	17,193	8.2%	NM	12	18,492	17,088	66	65	28	29
Rhode Island	8,104	9,322	-13.1%	0	0	7,897	9,111	58	56	149	155
Vermont	2,048	2,108	-2.8%	859	899	1,187	1,205	3	3	0	0
Middle Atlantic	428,199	427,710	0.1%	34,902	37,096	385,826	384,474	2,172	2,065	5,298	4,076
New Jersey	65,084	61,434	5.9%	259	212	63,629	60,127	687	627	510	468
New York	125,238	124,945	0.2%	34,512	36,775	88,839	86,307	1,071	1,059	815	805
Pennsylvania	237,876	241,331	-1.4%	131	109	233,358	238,040	414	379	3,973	2,803
East North Central	600,580	581,427	3.3%	210,535	211,244	377,728	357,489	1,819	1,830	10,497	10,864
Illinois	189,620	181,524	4.5%	5,232	4,200	181,419	174,268	470	501	2,499	2,555
Indiana	97,931	94,165	4.0%	61,634	60,648	31,612	28,622	245	252	4,440	4,643
Michigan	116,226	115,513	0.6%	80,742	81,452	33,380	31,986	714	677	1,390	1,399
Ohio	135,550	125,948	7.6%	15,693	14,318	118,902	110,654	249	252	705	724
Wisconsin	61,254	64,276	-4.7%	47,234	50,625	12,416	11,959	142	148	1,463	1,544
West North Central	377,895	358,241	5.5%	279,101	272,683	94,237	80,995	757	676	3,800	3,887
Iowa	71,316	67,207	6.1%	57,250	56,115	11,762	8,895	193	145	2,111	2,052
Kansas	62,569	56,631	10.5%	34,932	32,726	27,462	23,656	16	16	160	234
Minnesota	60,537	59,196	2.3%	42,806	42,497	16,451	15,390	330	301	950	1,007
Missouri	79,050	76,941	2.7%	72,247	70,529	6,554	6,174	200	195	47	44
Nebraska	40,479	37,911	6.8%	27,594	28,008	12,533	9,555	19	18	333	331
North Dakota	45,117	43,032	4.8%	34,222	33,386	10,743	9,480	0	1	152	166
South Dakota	18,827	17,322	8.7%	10,049	9,422	8,730	7,846	NM	0	47	54
South Atlantic	808,820	801,031	1.0%	658,122	657,504	132,192	124,201	1,426	1,579	17,080	17,747
Delaware	5,189	4,305	20.5%	68	28	4,035	3,360	8	6	1,078	911
District of Columbia	177	211	-16.3%	0	0	30	18	147	193	0	0
Florida	258,555	246,450	4.9%	239,889	229,657	13,938	11,625	406	437	4,323	4,730
Georgia	126,659	124,201	2.0%	100,592	103,521	20,997	15,541	7	3	5,063	5,136
Maryland	37,295	38,236	-2.5%	3,941	3,470	33,032	34,470	271	247	50	48
North Carolina	134,741	129,923	3.7%	111,444	108,153	21,300	19,659	288	362	1,710	1,750
South Carolina	98,872	98,390	0.5%	92,420	92,974	4,732	3,828	1	2	1,719	1,587
Virginia	90,890	93,478	-2.8%	70,947	72,449	17,493	18,385	298	328	2,152	2,316
West Virginia	56,441	65,836	-14.3%	38,822	47,252	16,635	17,315	0	0	984	1,269
East South Central	361,424	359,422	0.6%	308,958	313,416	43,071	36,148	196	201	9,200	9,658
Alabama	144,967	142,733	1.6%	102,916	106,804	37,314	30,973	0	0	4,737	4,956
Kentucky	69,127	69,908	-1.1%	67,888	68,762	692	594	0	0	548	553
Mississippi	67,798	67,723	0.1%	62,562	62,630	3,435	3,196	0	0	1,801	1,898
Tennessee	79,532	79,057	0.6%	75,593	75,221	1,629	1,385	196	201	2,115	2,251
West South Central	780,061	722,414	8.0%	249,992	235,985	455,662	414,192	956	894	73,451	71,343
Arkansas	64,658	61,100	5.8%	57,053	54,354	6,436	5,597	60	65	1,109	1,084
Louisiana	105,020	98,715	6.4%	67,495	63,845	7,934	6,913	146	184	29,446	27,773
Oklahoma	85,880	80,755	6.3%	37,841	37,602	47,186	42,314	0	0	853	839
Texas	524,504	481,844	8.9%	87,604	80,184	394,107	359,368	751	645	42,042	41,647
Mountain	376,898	370,201	1.8%	268,786	272,129	104,017	93,891	1,151	1,110	2,944	3,071
Arizona	105,075	108,605	-3.2%	82,937	86,412	21,969	22,041	153	151	16	0
Colorado	58,407	56,838	2.8%	40,942	41,492	17,201	15,079	33	27	231	241
Idaho	17,168	16,836	2.0%	10,757	10,457	5,812	5,760	68	69	530	550
Montana	27,266	24,948	9.3%	11,798	10,545	15,436	14,367	0	0	32	35
Nevada	42,817	41,755	2.5%	25,793	27,234	16,003	13,567	658	615	362	339
New Mexico	40,880	35,192	16.2%	23,836	21,859	16,901	13,151	124	134	19	48
Utah	39,268	42,566	-7.7%	33,433	36,931	5,376	5,104	115	114	344	417
Wyoming	46,017	43,461	5.9%	39,290	37,198	5,318	4,821	0	0	1,409	1,441
Pacific Contiguous	388,094	368,990	5.2%	213,605	197,960	157,014	152,306	2,486	2,564	14,989	16,160
California	205,207	197,165	4.1%	65,570	62,190	124,954	119,127	2,379	2,458	12,305	13,389
Oregon	63,192	61,017	3.6%	43,385	40,153	19,096	20,199	84	82	627	583
Washington	119,695	110,808	8.0%	104,650	95,617	12,964	12,980	23	24	2,058	2,188
Pacific Noncontiguous	15,998	15,778	1.4%	11,060	10,636	3,853	4,087	728	716	358	338
Alaska	6,496	6,596	-1.5%	5,785	5,911	240	223	351	352	120	110
Hawaii	9,502	9,182	3.5%	5,275	4,725	3,613	3,864	376	364	238	228
U.S. Total	4,243,136	4,108,303	3.3%	2,236,628	2,210,187	1,853,652	1,745,598	12,852	12,768	140,005	139,750

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)**

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	33	21	59.8%	0	0	33	21	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	4	5	-17.0%	0	0	4	5	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	29	15	84.9%	0	0	29	15	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	2,273	1,543	47.2%	0	0	2,264	1,537	0	0	9	6
New Jersey	0	82	-100.0%	0	0	0	82	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	2,273	1,462	55.5%	0	0	2,264	1,456	0	0	9	6
East North Central	16,619	14,029	18.5%	10,067	8,112	6,433	5,793	2	1	117	123
Illinois	3,649	3,142	16.2%	185	175	3,357	2,863	1	0	106	103
Indiana	4,977	3,520	41.4%	4,574	3,155	401	364	2	1	0	0
Michigan	2,778	3,063	-9.3%	2,746	3,028	31	33	0	0	0	1
Ohio	3,254	2,770	17.5%	610	238	2,644	2,532	0	0	0	0
Wisconsin	1,962	1,535	27.8%	1,952	1,516	0	0	0	0	11	19
West North Central	13,668	12,010	13.8%	13,491	11,824	0	0	6	8	172	178
Iowa	1,941	1,141	70.2%	1,819	1,013	0	0	6	6	116	122
Kansas	1,733	1,551	11.8%	1,733	1,551	0	0	0	0	0	0
Minnesota	1,729	1,366	26.6%	1,717	1,355	0	0	0	1	12	10
Missouri	4,340	4,190	3.6%	4,340	4,189	0	0	0	1	0	0
Nebraska	1,663	1,563	6.3%	1,629	1,529	0	0	0	0	34	34
North Dakota	2,262	2,057	10.0%	2,253	2,044	0	0	0	0	NM	12
South Dakota	0	143	-100.0%	0	143	0	0	0	0	0	0
South Atlantic	12,673	7,765	63.2%	11,158	6,132	1,463	1,590	5	1	48	41
Delaware	-1	0	-627.0%	0	0	-1	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,532	624	145.7%	1,529	619	0	0	0	0	NM	5
Georgia	1,758	436	303.1%	1,738	423	0	0	0	0	NM	13
Maryland	342	203	68.6%	0	0	342	203	0	0	0	0
North Carolina	2,130	503	323.2%	2,111	489	0	0	5	1	14	14
South Carolina	1,593	694	129.7%	1,570	676	20	17	0	0	3	1
Virginia	445	116	282.3%	436	108	0	0	0	0	9	9
West Virginia	4,875	5,189	-6.1%	3,773	3,818	1,102	1,371	0	0	0	0
East South Central	7,788	6,316	23.3%	7,492	6,062	269	226	0	0	27	28
Alabama	2,279	2,029	12.4%	2,276	2,029	0	0	0	0	NM	0
Kentucky	4,338	3,062	41.7%	4,338	3,062	0	0	0	0	0	0
Mississippi	483	428	12.8%	214	203	269	226	0	0	0	0
Tennessee	687	797	-13.8%	663	769	0	0	0	0	24	28
West South Central	9,466	7,834	20.8%	4,799	2,837	4,663	4,993	0	0	4	3
Arkansas	1,519	840	80.9%	1,217	523	299	314	0	0	2	3
Louisiana	562	210	167.7%	423	65	139	145	0	0	0	0
Oklahoma	758	616	23.0%	757	616	0	0	0	0	1	0
Texas	6,626	6,167	7.4%	2,402	1,633	4,225	4,535	0	0	0	0
Mountain	10,213	10,217	0.0%	8,900	8,972	1,189	1,211	0	0	34	34
Arizona	1,299	1,080	20.2%	1,299	1,080	0	0	0	0	0	0
Colorado	2,008	1,985	1.1%	2,008	1,985	0	0	0	0	0	0
Idaho	NM	2	NM	0	0	0	0	0	0	NM	2
Montana	1,003	1,013	-1.0%	0	0	1,002	1,012	0	0	NM	1
Nevada	197	256	-23.3%	101	123	95	133	0	0	0	0
New Mexico	1,000	1,349	-25.9%	1,000	1,349	0	0	0	0	0	0
Utah	2,105	1,989	5.8%	2,071	1,951	34	38	0	0	0	0
Wyoming	2,601	2,542	2.3%	2,511	2,482	57	28	0	0	32	31
Pacific Contiguous	354	134	164.8%	0	0	326	109	0	0	28	25
California	25	22	14.7%	0	0	0	0	0	0	25	22
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	329	112	194.6%	0	0	326	109	0	0	3	2
Pacific Noncontiguous	77	157	-50.9%	49	53	17	93	11	11	0	0
Alaska	77	77	-0.1%	49	53	17	13	11	11	0	0
Hawaii	0	80	-100.0%	0	0	0	80	0	0	0	0
U.S. Total	73,164	60,025	21.9%	56,045	43,993	16,657	15,573	24	21	438	438

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	348	579	-39.9%	0	0	348	579	0	0	0	0
Connecticut	0	245	-100.0%	0	0	0	245	0	0	0	0
Maine	42	50	-15.1%	0	0	42	50	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	305	284	7.5%	0	0	305	284	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	23,128	30,324	-23.7%	0	0	23,039	30,246	0	0	89	78
New Jersey	498	1,026	-51.5%	0	0	498	1,026	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	22,630	29,297	-22.8%	0	0	22,541	29,219	0	0	89	78
East North Central	191,356	207,790	-7.9%	109,813	120,608	80,019	85,669	55	40	1,470	1,473
Illinois	40,711	43,185	-5.7%	1,920	1,841	37,503	40,072	8	9	1,281	1,263
Indiana	51,466	54,448	-5.5%	46,936	49,724	4,484	4,693	46	31	0	0
Michigan	34,205	37,054	-7.7%	33,833	36,710	359	341	0	0	12	2
Ohio	43,059	45,662	-5.7%	5,386	5,099	37,673	40,563	0	0	0	0
Wisconsin	21,914	27,442	-20.1%	21,738	27,233	0	0	0	0	177	208
West North Central	153,859	160,100	-3.9%	151,703	158,040	0	0	89	67	2,067	1,993
Iowa	18,191	22,107	-17.7%	16,646	20,641	0	0	62	48	1,484	1,418
Kansas	20,229	19,396	4.3%	20,229	19,396	0	0	0	0	0	0
Minnesota	16,178	15,764	2.6%	16,016	15,621	0	0	16	9	146	134
Missouri	52,832	57,858	-8.7%	52,821	57,848	0	0	11	10	0	0
Nebraska	19,764	18,934	4.4%	19,431	18,603	0	0	0	0	333	331
North Dakota	24,790	24,403	1.6%	24,685	24,293	0	0	0	0	105	110
South Dakota	1,875	1,638	14.4%	1,875	1,638	0	0	0	0	0	0
South Atlantic	119,836	141,421	-15.3%	101,395	121,434	17,880	19,430	19	29	542	528
Delaware	105	277	-62.1%	0	0	105	277	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15,536	18,385	-15.5%	15,497	18,338	0	0	0	0	39	46
Georgia	16,833	19,076	-11.8%	16,623	18,895	0	0	0	0	210	181
Maryland	4,639	5,174	-10.3%	0	0	4,639	5,174	0	0	0	0
North Carolina	14,676	20,405	-28.1%	14,506	20,220	0	16	19	29	151	140
South Carolina	14,243	15,188	-6.2%	14,022	15,014	202	150	0	0	19	25
Virginia	3,346	3,248	3.0%	3,224	3,023	0	90	0	0	122	136
West Virginia	50,457	59,668	-15.4%	37,524	45,944	12,933	13,724	0	0	0	0
East South Central	94,570	100,554	-6.0%	91,275	97,376	2,909	2,753	0	0	386	425
Alabama	25,966	26,901	-3.5%	25,944	26,901	0	0	0	0	NM	0
Kentucky	47,067	49,863	-5.6%	47,067	49,863	0	0	0	0	0	0
Mississippi	5,651	5,531	2.2%	2,742	2,778	2,909	2,753	0	0	0	0
Tennessee	15,886	18,260	-13.0%	15,522	17,835	0	0	0	0	364	425
West South Central	122,825	129,356	-5.0%	62,655	67,717	60,071	61,564	0	0	99	75
Arkansas	20,361	21,419	-4.9%	15,987	17,350	4,335	4,034	0	0	38	34
Louisiana	8,173	7,873	3.8%	5,049	5,454	3,124	2,419	0	0	0	0
Oklahoma	8,954	11,246	-20.4%	8,894	11,205	0	0	0	0	60	41
Texas	85,337	88,818	-3.9%	32,725	33,708	52,612	55,110	0	0	0	0
Mountain	117,855	122,498	-3.8%	103,589	109,197	13,880	12,913	0	0	386	387
Arizona	13,449	14,301	-6.0%	13,449	14,301	0	0	0	0	0	0
Colorado	21,723	23,602	-8.0%	21,723	23,602	0	0	0	0	0	0
Idaho	NM	16	NM	0	0	0	0	0	0	NM	16
Montana	11,456	10,876	5.3%	0	64	11,448	10,803	0	0	NM	9
Nevada	2,735	2,752	-0.6%	1,395	1,562	1,340	1,190	0	0	0	0
New Mexico	13,292	12,536	6.0%	13,292	12,536	0	0	0	0	0	0
Utah	22,390	26,376	-15.1%	21,987	25,976	404	399	0	0	0	0
Wyoming	32,795	32,038	2.4%	31,743	31,156	688	520	0	0	364	362
Pacific Contiguous	3,818	3,427	11.4%	0	0	3,546	3,107	0	0	272	319
California	252	294	-14.5%	0	0	0	0	0	0	252	294
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3,566	3,133	13.8%	0	0	3,546	3,107	0	0	20	25
Pacific Noncontiguous	1,399	1,837	-23.9%	448	431	838	1,262	113	144	0	0
Alaska	751	753	-0.2%	448	431	190	177	113	144	0	0
Hawaii	648	1,085	-40.3%	0	0	648	1,085	0	0	0	0
U.S. Total	828,993	897,885	-7.7%	620,878	674,804	202,529	217,522	275	280	5,311	5,278

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	487	54	809.9%	48	2	429	48	NM	3	NM	1
Connecticut	101	-1	NM	NM	0	99	-1	NM	0	NM	0
Maine	85	3	NM	0	0	82	2	0	0	NM	0
Massachusetts	180	23	675.6%	45	1	130	21	NM	1	0	0
New Hampshire	102	26	297.5%	0	0	100	24	2	1	0	0
Rhode Island	NM	2	NM	0	0	NM	2	1	NM	NM	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	949	38	NM	315	9	629	28	NM	1	NM	1
New Jersey	82	3	NM	0	0	82	3	NM	0	0	0
New York	702	18	NM	314	9	383	8	NM	0	3	1
Pennsylvania	165	17	854.2%	0	0	164	17	0	0	NM	0
East North Central	141	55	157.5%	82	40	57	14	1	0	1	1
Illinois	NM	4	NM	NM	1	NM	3	NM	0	0	0
Indiana	13	15	-11.2%	12	15	1	0	0	0	0	0
Michigan	14	12	19.4%	14	11	0	0	0	0	0	0
Ohio	69	12	460.1%	31	1	37	11	0	0	1	0
Wisconsin	NM	12	NM	NM	12	0	0	0	0	NM	0
West North Central	294	61	381.1%	286	59	NM	2	0	0	0	0
Iowa	NM	9	NM	NM	9	NM	0	0	0	NM	0
Kansas	NM	13	NM	NM	13	0	0	0	0	0	0
Minnesota	NM	7	NM	NM	5	NM	1	NM	0	0	0
Missouri	165	18	843.5%	165	18	0	0	0	0	0	0
Nebraska	NM	6	NM	NM	6	0	0	0	0	0	0
North Dakota	NM	6	NM	NM	6	0	0	0	0	0	0
South Dakota	NM	3	NM	NM	3	0	0	NM	0	0	0
South Atlantic	856	85	909.5%	536	61	301	12	NM	3	14	9
Delaware	72	2	NM	7	0	65	2	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	133	21	517.6%	115	19	16	1	0	0	NM	1
Georgia	99	8	NM	54	0	40	4	0	0	NM	4
Maryland	54	2	NM	4	0	50	2	NM	0	0	0
North Carolina	147	6	NM	130	5	NM	1	NM	0	NM	1
South Carolina	47	5	913.3%	43	3	3	0	0	0	1	2
Virginia	266	13	NM	161	6	99	3	4	3	3	0
West Virginia	37	28	32.2%	22	28	15	0	0	0	0	0
East South Central	94	20	360.9%	78	19	14	0	0	0	NM	1
Alabama	26	3	906.0%	12	1	14	0	0	0	NM	1
Kentucky	27	8	232.0%	27	8	0	0	0	0	0	0
Mississippi	2	0	NM	1	0	0	0	0	0	1	0
Tennessee	39	10	304.0%	38	9	0	0	0	0	1	0
West South Central	NM	11	NM	NM	6	NM	5	NM	0	NM	0
Arkansas	NM	2	NM	NM	1	3	2	0	0	NM	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	NM	2	NM	NM	2	0	0	0	0	0	0
Texas	NM	6	NM	NM	2	NM	3	NM	0	0	0
Mountain	28	18	55.9%	24	17	4	1	NM	0	0	0
Arizona	2	4	-44.9%	2	4	0	0	NM	0	0	0
Colorado	NM	2	NM	NM	2	3	0	0	0	0	0
Idaho	0	0	-89.0%	0	0	0	0	0	0	0	0
Montana	5	1	394.2%	4	0	1	1	0	0	0	0
Nevada	1	0	63.3%	0	0	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	4	2	52.3%	4	2	0	0	0	0	0	0
Wyoming	6	7	-10.9%	6	7	0	0	0	0	0	0
Pacific Contiguous	97	7	NM	17	3	3	1	NM	0	77	2
California	79	3	NM	NM	3	0	0	NM	0	75	0
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	18	3	419.5%	14	0	2	1	0	0	2	2
Pacific Noncontiguous	731	620	17.9%	568	473	144	130	1	1	18	16
Alaska	86	88	-1.8%	82	83	0	0	0	1	3	4
Hawaii	645	532	21.1%	486	389	144	130	1	0	14	12
U.S. Total	3,815	969	293.9%	2,016	688	1,663	241	NM	9	120	31

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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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	1,693	244	593.6%	76	21	1,567	188	29	24	21	11
Connecticut	173	46	276.5%	5	5	162	37	NM	1	NM	3
Maine	269	32	751.4%	0	0	252	23	1	NM	16	7
Massachusetts	758	81	834.3%	65	14	682	60	NM	7	2	1
New Hampshire	446	70	536.8%	0	0	434	59	12	11	0	0
Rhode Island	NM	13	NM	0	0	NM	10	3	NM	NM	0
Vermont	NM	3	NM	NM	3	0	0	0	0	0	0
Middle Atlantic	2,261	852	165.5%	858	552	1,377	279	NM	8	16	13
New Jersey	113	37	204.9%	0	0	110	36	NM	1	1	0
New York	1,853	690	168.4%	857	552	981	127	NM	4	11	8
Pennsylvania	295	124	137.4%	1	0	286	116	3	3	NM	4
East North Central	652	620	5.1%	441	434	198	171	2	4	NM	11
Illinois	68	54	25.2%	20	18	47	35	0	0	0	0
Indiana	114	128	-11.2%	103	123	9	4	0	1	1	1
Michigan	116	117	-1.2%	112	111	0	0	0	2	3	4
Ohio	194	154	26.0%	49	21	141	131	1	0	3	2
Wisconsin	161	167	-3.7%	156	161	0	1	0	1	NM	4
West North Central	904	742	21.8%	882	726	NM	11	2	3	2	2
Iowa	121	103	17.6%	118	100	3	3	0	0	NM	0
Kansas	205	149	37.5%	205	149	0	0	0	0	0	0
Minnesota	106	105	1.0%	88	93	NM	8	2	2	2	2
Missouri	347	259	34.0%	346	258	0	0	0	0	0	0
Nebraska	58	55	4.5%	58	55	0	0	0	0	0	0
North Dakota	30	33	-8.4%	30	33	0	0	0	0	0	0
South Dakota	37	38	-2.0%	37	38	0	0	NM	0	0	0
South Atlantic	2,123	1,313	61.7%	1,487	956	495	210	40	51	100	96
Delaware	93	17	456.3%	11	2	82	15	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	532	353	50.7%	491	312	25	22	0	0	17	20
Georgia	215	81	165.5%	121	19	45	16	4	1	45	45
Maryland	140	73	92.3%	10	0	129	72	NM	1	NM	0
North Carolina	274	195	40.6%	237	170	NM	6	NM	0	17	18
South Carolina	137	86	58.5%	120	73	6	4	0	0	11	9
Virginia	581	341	70.5%	361	217	174	71	35	48	10	4
West Virginia	150	167	-10.1%	136	163	15	5	0	0	0	0
East South Central	282	199	41.5%	252	177	16	12	0	0	14	10
Alabama	41	22	87.6%	17	4	16	12	0	0	8	6
Kentucky	86	66	30.5%	86	66	0	0	0	0	0	0
Mississippi	9	8	11.5%	6	6	0	0	0	0	3	2
Tennessee	146	103	41.2%	143	101	0	0	0	0	2	2
West South Central	385	308	24.9%	222	209	158	94	NM	0	4	4
Arkansas	61	56	9.1%	NM	43	18	12	0	0	NM	0
Louisiana	NM	14	NM	NM	14	0	0	0	0	0	0
Oklahoma	30	35	-15.6%	28	34	0	0	0	0	1	1
Texas	278	204	36.8%	136	117	140	82	NM	0	2	4
Mountain	196	220	-11.1%	183	207	12	13	NM	0	0	0
Arizona	32	44	-26.0%	32	44	0	0	NM	0	0	0
Colorado	32	28	16.1%	29	28	3	0	0	0	0	0
Idaho	0	0	-65.7%	0	0	0	0	0	0	0	0
Montana	11	9	17.7%	4	0	NM	9	0	0	0	0
Nevada	9	8	13.6%	7	6	2	2	0	0	0	0
New Mexico	25	33	-26.1%	25	33	0	0	0	0	0	0
Utah	34	38	-11.7%	33	37	1	2	0	0	0	0
Wyoming	53	60	-11.7%	53	60	0	0	0	0	0	0
Pacific Contiguous	202	109	84.5%	50	38	47	19	NM	1	103	52
California	156	77	103.0%	35	34	35	10	1	1	84	33
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	NM	32	NM	15	4	11	9	NM	0	NM	19
Pacific Noncontiguous	7,577	7,058	7.4%	5,959	5,469	1,411	1,383	3	4	204	202
Alaska	896	902	-0.7%	849	856	0	0	-1	1	48	45
Hawaii	6,682	6,155	8.6%	5,110	4,613	1,411	1,383	4	3	156	156
U.S. Total	16,274	11,665	39.5%	10,411	8,791	5,299	2,380	89	94	475	400

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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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
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	204	194	5.4%	116	89	76	92	0	0	12	13
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	125	83	50.9%	113	70	0	0	0	0	12	13
Ohio	76	92	-17.2%	0	0	76	92	0	0	0	0
Wisconsin	3	19	-84.1%	3	19	0	0	0	0	0	0
West North Central	1	1	-13.2%	0	0	0	0	1	1	0	0
Iowa	1	1	-13.2%	0	0	0	0	1	1	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	128	57	125.8%	116	51	0	0	0	0	12	6
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	116	51	129.7%	116	51	0	0	0	0	0	0
Georgia	12	6	92.7%	0	0	0	0	0	0	12	6
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	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	409	300	36.3%	403	292	0	0	0	0	6	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	403	292	37.8%	403	292	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	6	8	-23.7%	0	0	0	0	0	0	6	8
Mountain	43	39	9.7%	0	0	43	39	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	43	39	9.7%	0	0	43	39	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	785	591	32.8%	636	432	119	132	1	1	29	26

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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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 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	2,482	2,157	15.1%	1,443	1,037	888	971	0	0	150	149
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,449	1,032	40.4%	1,298	883	0	0	0	0	150	149
Ohio	888	971	-8.5%	0	0	888	971	0	0	0	0
Wisconsin	145	154	-6.0%	145	154	0	0	0	0	0	0
West North Central	12	29	-58.2%	0	0	0	0	10	4	NM	26
Iowa	12	29	-58.2%	0	0	0	0	10	4	NM	26
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	958	907	5.7%	832	809	0	0	0	0	126	98
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	832	809	2.9%	832	809	0	0	0	0	0	0
Georgia	126	98	28.8%	0	0	0	0	0	0	126	98
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	18	0	--	18	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	18	0	--	18	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	3,185	3,976	-19.9%	3,090	3,882	0	0	0	0	95	94
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	3,090	3,882	-20.4%	3,090	3,882	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	95	94	1.4%	0	0	0	0	0	0	95	94
Mountain	454	442	2.8%	0	0	454	442	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	454	442	2.8%	0	0	454	442	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	7,109	7,511	-5.4%	5,383	5,728	1,342	1,413	10	4	374	367

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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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	4,203	4,112	2.2%	NM	9	3,972	3,898	87	74	135	131
Connecticut	1,722	2,088	-17.5%	3	5	1,634	1,999	26	27	60	57
Maine	265	198	33.8%	0	0	214	150	3	3	48	45
Massachusetts	1,492	988	51.0%	NM	3	1,425	930	49	40	12	15
New Hampshire	207	195	5.9%	0	0	203	192	1	1	2	2
Rhode Island	517	643	-19.6%	0	0	496	628	7	4	13	12
Vermont	0	0	-47.3%	0	0	0	0	0	0	0	0
Middle Atlantic	17,721	18,267	-3.0%	805	1,006	16,478	16,863	93	76	345	322
New Jersey	2,250	1,921	17.2%	NM	5	2,182	1,874	21	13	38	28
New York	4,464	4,597	-2.9%	793	1,001	3,565	3,494	53	50	54	52
Pennsylvania	11,006	11,750	-6.3%	3	0	10,731	11,495	19	13	253	242
East North Central	16,320	13,567	20.3%	5,619	4,223	10,223	8,800	137	129	340	415
Illinois	1,989	1,495	33.0%	161	223	1,741	1,169	40	39	47	64
Indiana	2,903	2,480	17.1%	1,220	894	1,534	1,380	19	16	130	190
Michigan	3,561	2,364	50.6%	1,409	820	2,038	1,440	57	51	58	53
Ohio	5,818	5,516	5.5%	928	770	4,851	4,709	17	12	21	25
Wisconsin	2,049	1,711	19.8%	1,901	1,517	59	102	5	10	84	82
West North Central	2,767	2,832	-2.3%	2,093	2,169	552	532	31	26	92	105
Iowa	604	633	-4.5%	552	579	0	0	10	6	42	47
Kansas	220	216	1.9%	196	200	0	0	0	0	25	16
Minnesota	991	1,291	-23.2%	570	824	395	426	9	10	17	31
Missouri	609	364	67.2%	436	244	157	105	12	10	4	4
Nebraska	80	73	9.9%	80	73	0	0	0	0	0	0
North Dakota	147	144	1.6%	145	143	0	0	0	0	1	2
South Dakota	117	111	5.4%	114	106	0	0	0	0	NM	4
South Atlantic	31,579	32,087	-1.6%	26,402	26,989	4,711	4,581	57	54	409	463
Delaware	288	456	-36.8%	2	1	202	375	0	0	84	80
District of Columbia	7	10	-28.8%	0	0	0	0	7	10	0	0
Florida	14,028	13,603	3.1%	13,200	12,966	722	485	NM	6	100	147
Georgia	4,676	5,211	-10.3%	3,673	4,254	931	889	0	0	72	67
Maryland	870	1,088	-20.0%	244	298	595	761	26	24	5	4
North Carolina	5,404	4,658	16.0%	4,696	3,857	677	773	NM	15	17	13
South Carolina	1,420	2,273	-37.5%	1,293	2,213	115	44	0	0	11	16
Virginia	4,679	4,619	1.3%	3,255	3,378	1,351	1,167	4	0	69	74
West Virginia	208	170	22.1%	39	21	117	87	0	0	52	63
East South Central	12,637	10,899	15.9%	9,494	7,703	2,812	2,876	17	16	314	304
Alabama	4,998	4,856	2.9%	2,117	1,853	2,738	2,866	0	0	143	137
Kentucky	1,603	1,378	16.3%	1,505	1,348	73	8	0	0	25	22
Mississippi	4,548	3,781	20.3%	4,497	3,731	1	1	0	0	49	49
Tennessee	1,489	884	68.4%	1,374	772	0	1	17	16	97	95
West South Central	31,871	25,626	24.4%	11,703	8,947	14,451	10,908	56	61	5,661	5,710
Arkansas	2,232	2,248	-0.7%	2,093	2,108	115	116	NM	5	20	19
Louisiana	5,687	5,324	6.8%	3,165	2,918	304	254	13	15	2,205	2,136
Oklahoma	3,071	1,891	62.4%	1,905	1,079	1,118	762	0	0	48	50
Texas	20,882	16,163	29.2%	4,541	2,842	12,914	9,776	39	41	3,388	3,504
Mountain	10,279	8,456	21.6%	8,164	6,565	1,938	1,720	33	34	143	137
Arizona	3,578	3,272	9.3%	2,485	2,321	1,086	940	7	11	0	0
Colorado	1,510	974	55.0%	1,286	830	210	131	0	0	14	13
Idaho	504	409	23.2%	312	237	176	155	4	3	12	14
Montana	141	49	189.4%	107	35	33	13	0	0	1	1
Nevada	2,102	1,961	7.2%	1,964	1,743	95	190	5	5	38	23
New Mexico	1,170	665	76.1%	827	375	330	280	NM	10	4	0
Utah	1,079	1,021	5.7%	1,044	980	NM	11	8	4	19	26
Wyoming	194	105	84.7%	139	44	0	0	0	0	54	60
Pacific Contiguous	13,498	11,504	17.3%	5,157	4,649	7,491	5,851	118	148	731	856
California	9,556	8,168	17.0%	2,877	2,770	5,919	4,484	114	142	646	772
Oregon	2,241	1,941	15.4%	1,143	1,016	1,083	915	4	4	11	7
Washington	1,702	1,395	22.0%	1,138	863	489	452	0	2	75	78
Pacific Noncontiguous	263	293	-10.4%	256	288	0	0	0	0	7	5
Alaska	263	293	-10.4%	256	288	0	0	0	0	7	5
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	141,138	127,644	10.6%	69,703	62,548	62,629	56,028	629	619	8,177	8,448

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

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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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	55,851	55,956	-0.2%	183	142	53,248	53,285	925	931	1,494	1,599
Connecticut	24,469	24,489	-0.1%	36	62	23,557	23,476	287	309	590	642
Maine	3,687	3,348	10.1%	0	0	3,110	2,741	32	31	546	575
Massachusetts	15,997	15,010	6.6%	146	79	15,119	14,203	550	530	183	198
New Hampshire	4,502	4,466	0.8%	0	0	4,465	4,425	9	12	28	29
Rhode Island	7,194	8,641	-16.7%	0	0	6,998	8,439	47	47	148	155
Vermont	1	2	-27.0%	1	1	0	0	1	1	0	0
Middle Atlantic	222,755	212,720	4.7%	10,836	12,422	207,072	196,726	974	913	3,874	2,659
New Jersey	33,318	29,543	12.8%	136	97	32,595	28,924	207	177	380	344
New York	59,751	56,513	5.7%	10,662	12,311	47,901	43,032	596	607	591	563
Pennsylvania	129,686	126,665	2.4%	37	14	126,575	124,770	171	130	2,903	1,751
East North Central	187,542	156,500	19.8%	63,722	51,944	118,168	98,603	1,526	1,542	4,126	4,412
Illinois	24,260	20,665	17.4%	3,046	2,101	20,077	17,289	452	486	685	788
Indiana	31,981	27,600	15.9%	13,480	9,755	16,644	15,807	166	176	1,690	1,863
Michigan	39,962	30,513	31.0%	16,527	11,772	22,247	17,570	617	573	571	598
Ohio	68,686	56,381	21.8%	9,906	8,814	58,247	47,069	231	235	302	263
Wisconsin	22,654	21,342	6.1%	20,763	19,502	953	867	60	72	877	901
West North Central	32,187	32,038	0.5%	25,063	24,646	5,867	6,068	357	334	900	991
Iowa	6,558	6,464	1.5%	5,908	5,837	NM	0	97	81	554	545
Kansas	3,535	2,662	32.8%	3,385	2,436	0	0	0	0	150	226
Minnesota	10,925	12,791	-14.6%	6,730	8,300	3,969	4,252	113	107	113	131
Missouri	7,606	6,059	25.5%	5,518	4,059	1,898	1,816	146	143	45	41
Nebraska	1,042	1,173	-11.2%	1,041	1,171	0	0	1	3	0	0
North Dakota	1,441	1,578	-8.6%	1,429	1,562	0	0	0	0	12	15
South Dakota	1,079	1,312	-17.7%	1,053	1,280	0	0	0	0	26	32
South Atlantic	406,352	384,066	5.8%	339,925	322,881	61,029	55,406	563	574	4,834	5,205
Delaware	4,650	3,734	24.5%	51	20	3,731	2,956	0	0	868	758
District of Columbia	89	137	-34.8%	0	0	0	0	89	137	0	0
Florida	192,756	182,620	5.6%	180,965	173,101	10,110	7,674	70	69	1,612	1,777
Georgia	60,090	56,673	6.0%	46,508	46,566	12,827	9,335	0	0	755	772
Maryland	14,084	13,978	0.8%	3,923	3,462	9,867	10,246	244	221	50	48
North Carolina	57,935	47,445	22.1%	48,933	38,977	8,694	8,150	142	151	166	166
South Carolina	24,228	23,242	4.2%	22,629	22,358	1,481	723	0	0	117	161
Virginia	50,318	53,611	-6.1%	36,496	38,048	13,017	14,745	18	-4	787	823
West Virginia	2,202	2,626	-16.1%	420	349	1,303	1,577	0	0	479	700
East South Central	148,500	131,627	12.8%	107,786	96,747	37,052	31,034	190	196	3,472	3,649
Alabama	62,508	54,448	14.8%	24,521	22,318	36,387	30,448	0	0	1,600	1,683
Kentucky	17,158	14,572	17.7%	16,248	13,757	651	562	0	0	259	253
Mississippi	51,744	48,621	6.4%	51,213	48,074	8	7	0	0	523	540
Tennessee	17,090	13,986	22.2%	15,803	12,599	6	18	190	196	1,091	1,173
West South Central	389,198	351,568	10.7%	143,676	123,203	179,077	163,741	885	817	65,559	63,808
Arkansas	24,749	20,629	20.0%	23,193	19,347	1,276	999	40	42	239	241
Louisiana	71,913	63,961	12.4%	43,138	37,006	3,547	3,190	146	184	25,082	23,582
Oklahoma	36,742	33,857	8.5%	24,173	21,925	12,062	11,436	0	0	507	496
Texas	255,795	233,121	9.7%	53,172	44,925	162,192	148,116	699	591	39,732	39,489
Mountain	114,346	116,487	-1.8%	88,897	90,270	23,478	24,170	421	432	1,551	1,614
Arizona	45,191	48,053	-6.0%	31,199	33,643	13,861	14,278	131	132	0	0
Colorado	15,612	14,560	7.2%	13,222	12,201	2,213	2,173	3	3	174	184
Idaho	4,290	4,935	-13.1%	2,481	2,948	1,650	1,823	39	39	120	126
Montana	670	528	26.9%	521	402	145	123	0	0	4	4
Nevada	24,921	26,130	-4.6%	22,542	23,547	1,966	2,186	62	62	352	335
New Mexico	10,909	10,093	8.1%	7,232	6,440	3,537	3,473	121	133	19	48
Utah	11,065	10,686	3.5%	10,652	10,225	105	115	65	65	244	282
Wyoming	1,688	1,501	12.5%	1,048	865	0	1	0	0	639	635
Pacific Contiguous	129,987	135,313	-3.9%	49,639	51,782	68,776	70,684	1,525	1,606	10,047	11,240
California	96,180	97,427	-1.3%	29,789	29,983	55,747	55,545	1,470	1,550	9,175	10,349
Oregon	19,046	21,297	-10.6%	10,088	10,875	8,830	10,308	45	43	83	70
Washington	14,760	16,589	-11.0%	9,761	10,924	4,200	4,831	10	13	789	822
Pacific Noncontiguous	2,747	3,085	-11.0%	2,675	3,020	0	0	0	0	72	65
Alaska	2,747	3,085	-11.0%	2,675	3,020	0	0	0	0	72	65
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,689,465	1,579,361	7.0%	832,401	777,057	753,767	699,717	7,366	7,346	95,929	95,240

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

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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), 2012-December 2022
(Thousand Megawatthours)**

Period	Natural Gas					Total
	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	
Annual Factors						
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	958,947	90,159	74,100	2,921	508	1,126,635
2015	1,131,803	108,655	89,796	3,760	654	1,334,668
2016	1,153,209	123,429	98,204	3,714	715	1,379,271
2017	1,096,212	111,732	84,520	4,370	869	1,297,703
2018	1,233,699	133,823	98,017	5,203	1,101	1,471,843
2019	1,343,576	130,661	106,113	6,655	1,527	1,588,533
2020	1,378,175	131,385	108,699	6,904	1,627	1,626,790
2021	1,339,556	130,991	98,661	8,255	1,899	1,579,361
Year 2020						
January	118,620	10,368	6,411	561	125	136,084
February	111,410	9,967	6,031	499	111	128,018
March	107,853	10,395	7,234	588	117	126,187
April	94,639	8,735	6,596	491	103	110,564
May	99,303	9,506	7,809	473	95	117,186
June	119,213	11,882	11,272	555	134	143,055
July	147,018	16,245	17,419	708	178	181,568
August	143,798	14,022	14,908	724	193	173,644
Sept	120,273	10,671	9,697	601	155	141,397
October	109,876	10,963	9,811	616	146	131,413
November	94,612	8,738	5,786	546	129	109,811
December	111,561	9,893	5,725	542	141	127,863
Year 2021						
January	112,575	7,744	5,534	576	134	126,563
February	95,271	8,543	6,662	586	121	111,184
March	93,171	7,685	5,415	602	125	106,999
April	90,717	9,597	6,383	620	113	107,430
May	98,129	9,237	6,622	554	127	114,669
June	123,442	13,950	11,073	750	176	149,390
July	140,377	15,813	12,918	885	220	170,214
August	141,915	16,374	13,333	892	221	172,735
Sept	117,522	10,310	9,421	761	168	138,181
October	110,799	11,807	8,387	711	157	131,860
November	104,056	10,683	6,934	653	166	122,491
December	111,583	9,247	5,980	664	170	127,644
Year 2022						
January	116,776	10,896	7,076	657	4	135,409
February	100,118	8,602	6,273	541	3	115,538
March	97,515	8,307	5,469	511	4	111,806
April	89,892	9,488	5,788	555	5	105,729
May	105,305	12,710	9,076	614	9	127,714
June	126,518	16,659	12,262	791	12	156,242
July	150,382	21,999	16,997	1,041	18	190,437
August	153,777	19,855	14,455	1,095	14	189,197
Sept	131,199	13,748	10,467	862	10	156,286
October	112,874	10,446	9,020	679	7	133,025
November	106,917	11,125	8,224	672	7	126,944
December	120,329	12,361	7,655	787	6	141,138

Values for 2021 and prior years are final. Values for 2022 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, December 2022 and 2021 (Thousand Megawatthours)**

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
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	62	62	0.0%	0	0	0	0	0	0	62	62
New Jersey	11	8	46.1%	0	0	0	0	0	0	11	8
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	51	55	-6.3%	0	0	0	0	0	0	51	55
East North Central	436	301	44.7%	0	0	182	113	0	0	254	188
Illinois	39	22	75.9%	0	0	0	0	0	0	39	22
Indiana	207	153	35.3%	0	0	0	0	0	0	207	153
Michigan	121	53	130.4%	0	0	121	53	0	0	0	0
Ohio	68	73	-6.9%	0	0	61	60	0	0	8	13
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	2	4	-48.5%	0	0	0	0	0	0	2	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	2	4	-48.5%	0	0	0	0	0	0	2	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	19	14	28.8%	0	0	0	0	0	0	19	14
Delaware	17	9	90.2%	0	0	0	0	0	0	17	9
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	20.8%	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	2	6	-70.3%	0	0	0	0	0	0	2	6
East South Central	1	1	7.4%	0	0	0	0	0	0	1	1
Alabama	0	0	-100.0%	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	1	1	8.2%	0	0	0	0	0	0	1	1
West South Central	335	382	-12.5%	0	0	87	119	0	0	247	264
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	149	193	-23.0%	0	0	0	0	0	0	149	193
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	186	189	-1.7%	0	0	87	119	0	0	99	71
Mountain	30	32	-6.8%	0	0	1	1	0	0	29	31
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	1	1	14.8%	0	0	0	0	0	0	1	1
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	NM	1	NM	0	0	1	1	0	0	NM	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	-100.0%	0	0	0	0	0	0	0	0
Wyoming	28	30	-7.7%	0	0	0	0	0	0	28	30
Pacific Contiguous	159	133	19.8%	0	0	0	0	0	0	159	133
California	133	120	10.7%	0	0	0	0	0	0	133	120
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	26	13	105.6%	0	0	0	0	0	0	26	13
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	1,043	930	12.2%	0	0	270	232	0	0	773	697

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 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	663	643	3.1%	0	0	0	2	0	0	663	641
New Jersey	120	92	30.3%	0	0	0	0	0	0	120	92
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	543	551	-1.5%	0	0	0	2	0	0	543	549
East North Central	4,560	4,510	1.1%	0	12	1,982	1,862	0	0	2,577	2,637
Illinois	263	242	9.0%	0	0	0	0	0	0	263	242
Indiana	2,230	2,254	-1.1%	0	0	0	0	0	0	2,230	2,254
Michigan	1,329	1,202	10.6%	0	12	1,329	1,190	0	0	0	0
Ohio	738	813	-9.2%	0	0	654	672	0	0	84	141
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	30	38	-22.5%	0	0	0	0	0	0	30	38
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	30	38	-22.5%	0	0	0	0	0	0	30	38
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	234	195	19.8%	0	0	0	0	0	0	234	195
Delaware	198	142	40.0%	0	0	0	0	0	0	198	142
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-14.4%	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	35	53	-34.0%	0	0	0	0	0	0	35	53
East South Central	13	11	21.9%	0	0	0	0	0	0	13	11
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	11	11	7.8%	0	0	0	0	0	0	11	11
West South Central	4,367	4,009	8.9%	0	0	1,463	1,417	0	0	2,904	2,591
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,867	1,791	4.3%	0	0	0	0	0	0	1,867	1,791
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,500	2,218	12.7%	0	0	1,463	1,417	0	0	1,037	801
Mountain	348	385	-9.6%	0	0	4	12	0	0	344	373
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	9	6	34.0%	0	0	0	0	0	0	9	6
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	6	13	-54.6%	0	0	4	12	0	0	NM	1
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	3	5	-42.6%	0	0	0	0	0	0	3	5
Wyoming	330	360	-8.3%	0	0	0	0	0	0	330	360
Pacific Contiguous	1,671	1,607	4.0%	0	0	0	0	0	0	1,671	1,607
California	1,415	1,369	3.4%	0	0	0	0	0	0	1,415	1,369
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	255	238	7.4%	0	0	0	0	0	0	255	238
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	11,884	11,397	4.3%	0	12	3,450	3,292	0	0	8,434	8,093

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	2,501	2,488	0.5%	0	0	2,501	2,488	0	0	0	0
Connecticut	1,572	1,559	0.8%	0	0	1,572	1,559	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	928	929	0.0%	0	0	928	929	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,091	11,939	1.3%	0	0	12,091	11,939	0	0	0	0
New Jersey	2,606	2,651	-1.7%	0	0	2,606	2,651	0	0	0	0
New York	2,486	2,479	0.3%	0	0	2,486	2,479	0	0	0	0
Pennsylvania	6,998	6,809	2.8%	0	0	6,998	6,809	0	0	0	0
East North Central	13,599	14,228	-4.4%	2,563	2,315	11,035	11,913	0	0	0	0
Illinois	8,853	8,883	-0.3%	0	0	8,853	8,883	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,563	2,923	-12.3%	2,563	2,315	0	608	0	0	0	0
Ohio	1,285	1,524	-15.7%	0	0	1,285	1,524	0	0	0	0
Wisconsin	897	898	-0.1%	0	0	897	898	0	0	0	0
West North Central	3,654	3,665	-0.3%	3,654	3,665	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	906	837	8.3%	906	837	0	0	0	0	0	0
Minnesota	1,319	1,316	0.3%	1,319	1,316	0	0	0	0	0	0
Missouri	921	916	0.6%	921	916	0	0	0	0	0	0
Nebraska	507	597	-15.1%	507	597	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	17,930	18,116	-1.0%	16,587	16,768	1,343	1,348	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	2,750	2,743	0.2%	2,750	2,743	0	0	0	0	0	0
Georgia	3,072	2,970	3.4%	3,072	2,970	0	0	0	0	0	0
Maryland	1,343	1,348	-0.3%	0	0	1,343	1,348	0	0	0	0
North Carolina	3,920	3,888	0.8%	3,920	3,888	0	0	0	0	0	0
South Carolina	4,441	4,471	-0.7%	4,441	4,471	0	0	0	0	0	0
Virginia	2,404	2,695	-10.8%	2,404	2,695	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,768	8,421	-7.8%	7,768	8,421	0	0	0	0	0	0
Alabama	3,353	4,137	-18.9%	3,353	4,137	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	915	998	-8.3%	915	998	0	0	0	0	0	0
Tennessee	3,499	3,287	6.5%	3,499	3,287	0	0	0	0	0	0
West South Central	6,034	6,725	-10.3%	2,245	2,936	3,789	3,789	0	0	0	0
Arkansas	759	1,332	-43.0%	759	1,332	0	0	0	0	0	0
Louisiana	1,486	1,604	-7.3%	1,486	1,604	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,789	3,789	0.0%	0	0	3,789	3,789	0	0	0	0
Mountain	2,988	2,823	5.8%	2,988	2,823	0	0	0	0	0	0
Arizona	2,988	2,823	5.8%	2,988	2,823	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	2,530	2,315	9.3%	2,530	2,315	0	0	0	0	0	0
California	1,670	1,684	-0.8%	1,670	1,684	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	860	631	36.2%	860	631	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	69,094	70,720	-2.3%	38,335	39,244	30,759	31,476	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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	27,386	27,073	1.2%	0	0	27,386	27,073	0	0	0	0
Connecticut	16,464	17,217	-4.4%	0	0	16,464	17,217	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	10,922	9,856	10.8%	0	0	10,922	9,856	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	131,297	135,221	-2.9%	0	0	131,297	135,221	0	0	0	0
New Jersey	28,319	28,142	0.6%	0	0	28,319	28,142	0	0	0	0
New York	26,812	31,177	-14.0%	0	0	26,812	31,177	0	0	0	0
Pennsylvania	76,166	75,903	0.3%	0	0	76,166	75,903	0	0	0	0
East North Central	151,787	158,786	-4.4%	23,283	27,324	128,504	131,462	0	0	0	0
Illinois	98,870	96,994	1.9%	0	0	98,870	96,994	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	26,013	34,338	-24.2%	23,283	27,324	2,730	7,015	0	0	0	0
Ohio	16,827	17,483	-3.8%	0	0	16,827	17,483	0	0	0	0
Wisconsin	10,077	9,970	1.1%	0	0	10,077	9,970	0	0	0	0
West North Central	38,171	33,871	12.7%	38,171	33,871	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	8,982	8,575	4.7%	8,982	8,575	0	0	0	0	0	0
Minnesota	14,696	14,123	4.1%	14,696	14,123	0	0	0	0	0	0
Missouri	8,875	4,292	106.8%	8,875	4,292	0	0	0	0	0	0
Nebraska	5,619	6,881	-18.3%	5,619	6,881	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	204,864	202,465	1.2%	190,053	187,471	14,811	14,994	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	30,768	28,058	9.7%	30,768	28,058	0	0	0	0	0	0
Georgia	34,074	33,952	0.4%	34,074	33,952	0	0	0	0	0	0
Maryland	14,811	14,994	-1.2%	0	0	14,811	14,994	0	0	0	0
North Carolina	42,644	43,118	-1.1%	42,644	43,118	0	0	0	0	0	0
South Carolina	54,370	53,771	1.1%	54,370	53,771	0	0	0	0	0	0
Virginia	28,197	28,572	-1.3%	28,197	28,572	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	86,549	93,139	-7.1%	86,549	93,139	0	0	0	0	0	0
Alabama	42,314	46,036	-8.1%	42,314	46,036	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	8,600	11,772	-26.9%	8,600	11,772	0	0	0	0	0	0
Tennessee	35,635	35,330	0.9%	35,635	35,330	0	0	0	0	0	0
West South Central	72,095	71,016	1.5%	30,488	30,804	41,607	40,211	0	0	0	0
Arkansas	14,324	13,556	5.7%	14,324	13,556	0	0	0	0	0	0
Louisiana	16,165	17,249	-6.3%	16,165	17,249	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	41,607	40,211	3.5%	0	0	41,607	40,211	0	0	0	0
Mountain	31,943	31,630	1.0%	31,943	31,630	0	0	0	0	0	0
Arizona	31,943	31,630	1.0%	31,943	31,630	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	27,445	24,989	9.8%	27,445	24,989	0	0	0	0	0	0
California	17,593	16,477	6.8%	17,593	16,477	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	9,852	8,511	15.7%	9,852	8,511	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	771,537	778,188	-0.9%	427,933	429,227	343,604	348,961	0	0	0	0

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector			
	December 2022	December 2021	Percentage Change	Electric Utilities		Independent Power Producers		December 2022	December 2021	December 2022	December 2021		
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities						Generation at Utility Scale Facilities	
				December 2022	December 2021	December 2022	December 2021					December 2022	December 2021
New England	588	621	-5.3%	67	69	513	544	1	1	7	8		
Connecticut	44	47	-6.5%	4	4	40	43	0	0	0	0		
Maine	236	251	-6.3%	NM	0	228	243	0	0	7	8		
Massachusetts	102	111	-8.2%	27	28	74	83	1	1	0	0		
New Hampshire	104	102	2.0%	NM	1	103	101	0	0	0	0		
Rhode Island	0	0	-15.6%	0	0	0	0	0	0	0	0		
Vermont	103	110	-6.5%	35	36	68	74	0	0	0	0		
Middle Atlantic	2,707	2,932	-7.7%	2,014	2,240	688	684	0	1	5	7		
New Jersey	1	0	326.1%	0	0	1	0	0	0	0	0		
New York	2,413	2,647	-8.9%	2,004	2,235	403	404	0	1	5	7		
Pennsylvania	294	285	3.3%	10	5	284	279	0	0	0	0		
East North Central	403	394	2.2%	355	345	38	38	NM	0	9	11		
Illinois	8	11	-27.3%	6	6	NM	5	0	0	0	0		
Indiana	37	33	9.9%	35	33	0	0	NM	0	0	0		
Michigan	116	115	0.9%	110	108	NM	6	0	0	NM	1		
Ohio	52	50	3.7%	33	32	19	18	0	0	0	0		
Wisconsin	190	185	3.1%	171	165	NM	10	0	0	9	10		
West North Central	975	1,155	-15.6%	951	1,128	19	23	0	0	5	4		
Iowa	91	101	-9.4%	91	100	0	0	0	0	0	0		
Kansas	1	3	-75.1%	0	0	1	3	0	0	0	0		
Minnesota	58	67	-14.3%	35	44	18	20	0	0	5	4		
Missouri	158	163	-2.9%	158	163	0	0	0	0	0	0		
Nebraska	96	114	-15.4%	96	114	0	0	0	0	0	0		
North Dakota	167	202	-17.3%	167	202	0	0	0	0	0	0		
South Dakota	404	505	-20.1%	404	505	0	0	0	0	0	0		
South Atlantic	1,695	1,154	46.8%	1,292	906	353	213	1	1	48	34		
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	22	16	41.7%	22	16	0	0	0	0	0	0		
Georgia	356	332	7.5%	353	329	NM	0	0	0	NM	2		
Maryland	216	121	77.9%	0	0	216	121	0	0	0	0		
North Carolina	553	342	61.9%	470	286	82	55	1	1	NM	0		
South Carolina	266	158	68.6%	259	152	NM	5	0	0	0	0		
Virginia	128	81	59.3%	117	74	11	7	0	0	0	0		
West Virginia	153	106	44.9%	70	49	37	24	0	0	46	32		
East South Central	2,607	2,686	-2.9%	2,521	2,588	87	98	0	0	0	0		
Alabama	1,164	1,088	7.0%	1,164	1,088	0	0	0	0	0	0		
Kentucky	462	496	-6.8%	460	493	NM	3	0	0	0	0		
Mississippi	0	0	--	0	0	0	0	0	0	0	0		
Tennessee	981	1,103	-11.0%	897	1,007	84	95	0	0	0	0		
West South Central	852	503	69.5%	746	433	106	70	NM	0	0	0		
Arkansas	377	223	69.1%	371	218	6	5	0	0	0	0		
Louisiana	97	62	56.3%	0	0	97	62	0	0	0	0		
Oklahoma	254	155	64.7%	254	155	0	0	0	0	0	0		
Texas	124	64	95.0%	120	61	4	3	NM	0	0	0		
Mountain	2,103	1,760	19.5%	2,020	1,695	80	62	NM	3	0	0		
Arizona	382	435	-12.3%	382	435	0	0	0	0	0	0		
Colorado	104	103	1.4%	89	92	NM	10	0	0	0	0		
Idaho	648	500	29.8%	594	457	54	42	0	0	0	0		
Montana	783	579	35.4%	774	572	NM	7	0	0	0	0		
Nevada	81	56	44.4%	80	55	NM	1	0	0	0	0		
New Mexico	NM	8	NM	NM	8	0	0	0	0	0	0		
Utah	35	32	12.3%	31	28	1	1	NM	2	0	0		
Wyoming	61	49	24.8%	61	49	0	0	0	0	0	0		
Pacific Contiguous	9,784	12,173	-19.6%	9,671	12,076	113	97	NM	0	0	0		
California	1,225	871	40.6%	1,158	825	NM	46	NM	0	0	0		
Oregon	2,609	3,305	-21.1%	2,593	3,283	16	22	0	0	0	0		
Washington	5,951	7,997	-25.6%	5,920	7,968	NM	29	0	0	0	0		
Pacific Noncontiguous	157	184	-15.0%	132	155	3	5	15	17	NM	7		
Alaska	146	171	-14.5%	131	154	0	0	15	17	0	0		
Hawaii	10	13	-22.0%	1	1	3	5	0	0	NM	7		
U.S. Total	21,870	23,562	-7.2%	19,767	21,635	1,998	1,834	23	22	82	70		

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	5,543	6,258	-11.4%	616	684	4,854	5,488	5	6	69	80
Connecticut	429	478	-10.3%	31	44	398	434	0	0	0	0
Maine	2,269	2,541	-10.7%	NM	2	2,199	2,459	0	0	69	80
Massachusetts	1,018	1,118	-8.9%	265	278	747	834	5	6	0	0
New Hampshire	861	1,025	-16.0%	NM	12	851	1,013	0	0	0	0
Rhode Island	3	4	-30.2%	0	0	3	4	0	0	0	0
Vermont	964	1,093	-11.8%	309	349	656	744	0	0	0	0
Middle Atlantic	30,239	31,919	-5.3%	23,537	24,388	6,658	7,459	5	8	39	64
New Jersey	5	18	-71.3%	0	0	5	18	0	0	0	0
New York	27,461	28,765	-4.5%	23,444	24,293	3,974	4,401	5	8	39	64
Pennsylvania	2,772	3,135	-11.6%	93	95	2,679	3,040	0	0	0	0
East North Central	4,900	4,579	7.0%	4,341	3,991	439	454	NM	1	112	132
Illinois	103	129	-19.5%	56	67	47	61	0	1	0	0
Indiana	349	387	-9.9%	341	387	0	0	NM	0	0	0
Michigan	1,499	1,340	11.9%	1,418	1,262	72	67	0	0	NM	11
Ohio	523	578	-9.5%	337	370	186	208	0	0	0	0
Wisconsin	2,425	2,145	13.1%	2,189	1,905	134	119	0	0	102	122
West North Central	12,418	11,481	8.2%	12,091	11,196	254	234	0	0	73	51
Iowa	1,168	980	19.2%	1,163	974	5	6	0	0	0	0
Kansas	24	30	-21.0%	0	0	24	30	0	0	0	0
Minnesota	778	679	14.6%	480	430	225	198	0	0	73	51
Missouri	1,482	1,697	-12.7%	1,482	1,697	0	0	0	0	0	0
Nebraska	1,270	1,123	13.1%	1,270	1,123	0	0	0	0	0	0
North Dakota	2,208	1,989	11.0%	2,208	1,989	0	0	0	0	0	0
South Dakota	5,488	4,983	10.1%	5,488	4,983	0	0	0	0	0	0
South Atlantic	15,255	17,397	-12.3%	11,644	13,242	3,103	3,602	12	16	496	537
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	234	252	-7.1%	234	252	0	0	0	0	0	0
Georgia	3,256	3,661	-11.1%	3,222	3,633	NM	8	0	0	20	20
Maryland	1,772	2,117	-16.3%	0	0	1,772	2,117	0	0	0	0
North Carolina	5,135	5,813	-11.7%	4,305	4,907	814	891	11	14	NM	0
South Carolina	2,158	2,544	-15.2%	2,091	2,460	66	82	1	2	0	0
Virginia	1,145	1,306	-12.3%	1,049	1,194	96	111	0	0	0	0
West Virginia	1,555	1,705	-8.8%	742	796	343	392	0	0	470	516
East South Central	24,219	27,269	-11.2%	23,344	26,311	875	957	0	0	0	0
Alabama	10,094	11,521	-12.4%	10,094	11,521	0	0	0	0	0	0
Kentucky	4,294	4,876	-11.9%	4,272	4,861	NM	16	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	9,830	10,871	-9.6%	8,978	9,930	852	942	0	0	0	0
West South Central	7,903	8,987	-12.1%	6,772	7,780	1,130	1,206	NM	1	0	0
Arkansas	3,491	4,029	-13.3%	3,428	3,968	64	60	0	0	0	0
Louisiana	1,023	1,109	-7.8%	0	0	1,023	1,109	0	0	0	0
Oklahoma	2,426	2,766	-12.3%	2,426	2,766	0	0	0	0	0	0
Texas	963	1,082	-11.0%	918	1,045	44	37	NM	1	0	0
Mountain	29,555	28,176	4.9%	28,336	27,113	1,164	1,014	55	49	0	0
Arizona	5,511	5,973	-7.7%	5,511	5,973	0	0	0	0	0	0
Colorado	1,685	1,598	5.4%	1,461	1,411	208	173	15	14	0	0
Idaho	8,839	7,995	10.6%	8,068	7,321	771	675	0	0	0	0
Montana	10,302	9,258	11.3%	10,181	9,149	121	110	0	0	0	0
Nevada	1,675	1,944	-13.9%	1,629	1,905	46	39	0	0	0	0
New Mexico	131	123	6.5%	131	123	0	0	0	0	0	0
Utah	543	494	10.1%	496	450	8	9	39	35	0	0
Wyoming	869	790	10.0%	859	781	10	9	0	0	0	0
Pacific Contiguous	129,918	113,717	14.2%	128,320	112,455	1,590	1,253	NM	9	0	0
California	17,301	14,678	17.9%	16,320	13,873	973	796	NM	9	0	0
Oregon	32,107	27,660	16.1%	31,884	27,461	222	199	0	0	0	0
Washington	80,510	71,379	12.8%	80,115	71,121	395	259	0	0	0	0
Pacific Noncontiguous	2,049	1,804	13.6%	1,725	1,529	43	34	198	169	82	72
Alaska	1,918	1,689	13.5%	1,719	1,520	0	0	198	169	0	0
Hawaii	131	115	14.1%	6	9	43	34	0	0	82	72
U.S. Total	261,999	251,585	4.1%	240,726	228,689	20,112	21,702	292	258	870	936

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	1,070	983	8.8%	71	60	921	835	12	11	65	77
Connecticut	78	79	-1.4%	0	0	78	79	NM	0	NM	0
Maine	481	461	4.4%	0	0	413	382	3	2	65	77
Massachusetts	201	170	18.2%	8	8	188	158	5	4	NM	0
New Hampshire	137	135	1.7%	0	0	134	131	3	4	0	0
Rhode Island	66	48	36.0%	0	0	65	48	1	1	0	0
Vermont	106	90	18.4%	63	52	43	37	0	0	0	0
Middle Atlantic	1,443	1,456	-0.9%	6	6	1,337	1,347	50	49	50	55
New Jersey	137	138	-0.7%	6	6	110	110	21	21	NM	0
New York	788	733	7.5%	0	0	756	698	19	16	14	19
Pennsylvania	519	586	-11.4%	0	0	472	538	11	12	36	35
East North Central	5,121	5,256	-2.6%	768	704	4,228	4,419	13	16	112	118
Illinois	2,236	2,443	-8.5%	15	16	2,221	2,427	NM	1	0	0
Indiana	1,056	1,012	4.3%	45	39	1,005	966	0	2	6	5
Michigan	1,149	1,093	5.1%	516	480	575	555	4	4	54	54
Ohio	361	407	-11.3%	NM	1	332	377	1	1	26	27
Wisconsin	319	302	5.6%	191	169	96	94	7	8	25	31
West North Central	12,626	12,582	0.4%	4,728	4,764	7,808	7,735	20	25	71	58
Iowa	4,319	3,977	8.6%	3,083	3,055	1,228	915	2	2	5	5
Kansas	2,433	2,717	-10.5%	185	224	2,246	2,491	NM	2	NM	1
Minnesota	1,611	1,578	2.1%	465	470	1,072	1,042	11	16	62	50
Missouri	781	840	-7.1%	324	363	454	474	3	4	0	0
Nebraska	1,253	1,145	9.4%	16	17	1,235	1,127	2	2	0	0
North Dakota	1,382	1,448	-4.6%	525	514	856	933	0	0	NM	0
South Dakota	848	877	-3.3%	130	122	716	753	0	0	NM	2
South Atlantic	3,730	3,786	-1.5%	993	933	1,920	1,969	35	42	783	843
Delaware	10	10	3.9%	NM	0	8	8	1	1	NM	1
District of Columbia	6	6	-4.0%	0	0	NM	1	5	5	0	0
Florida	1,069	1,044	2.4%	723	671	179	198	14	16	153	159
Georgia	827	828	-0.2%	36	34	477	444	NM	0	314	350
Maryland	108	127	-15.2%	NM	0	106	125	2	2	0	0
North Carolina	743	760	-2.2%	37	39	602	608	5	6	98	107
South Carolina	293	282	3.7%	4	6	163	165	0	0	126	112
Virginia	510	520	-1.8%	192	182	219	212	8	12	91	114
West Virginia	163	208	-21.5%	0	0	163	208	0	0	0	0
East South Central	563	569	-1.1%	11	12	103	85	NM	0	448	472
Alabama	304	295	3.3%	NM	1	35	38	0	0	268	255
Kentucky	37	42	-12.6%	10	11	4	1	0	0	22	30
Mississippi	129	153	-15.5%	0	0	24	22	0	0	105	131
Tennessee	93	80	16.6%	NM	0	39	23	NM	0	53	56
West South Central	14,466	14,816	-2.4%	229	233	13,912	14,214	4	6	322	363
Arkansas	88	97	-9.3%	NM	0	30	25	1	1	56	70
Louisiana	191	199	-4.2%	2	2	17	12	0	0	173	185
Oklahoma	3,266	3,254	0.4%	171	211	3,071	3,014	0	0	23	29
Texas	10,921	11,265	-3.1%	55	20	10,794	11,163	3	4	69	78
Mountain	6,942	7,047	-1.5%	1,516	1,749	5,325	5,201	66	64	35	32
Arizona	467	497	-6.0%	31	34	434	463	NM	1	NM	0
Colorado	1,717	1,848	-7.0%	382	461	1,335	1,386	NM	1	0	0
Idaho	340	288	18.2%	23	16	283	240	3	3	32	30
Montana	471	377	24.8%	122	115	348	261	0	0	2	2
Nevada	864	800	8.0%	8	8	796	733	60	59	NM	1
New Mexico	1,656	1,610	2.9%	280	342	1,375	1,268	NM	0	0	0
Utah	276	305	-9.4%	21	21	254	283	1	1	0	0
Wyoming	1,149	1,322	-13.1%	648	753	500	569	0	0	0	0
Pacific Contiguous	6,284	5,444	15.4%	590	714	5,421	4,487	77	68	195	175
California	4,525	3,690	22.6%	110	119	4,279	3,450	72	64	64	57
Oregon	869	748	16.2%	92	111	728	591	4	3	46	42
Washington	889	1,006	-11.6%	389	484	414	446	1	1	86	75
Pacific Noncontiguous	150	156	-3.6%	15	16	122	123	13	17	0	0
Alaska	17	17	2.6%	NM	9	NM	5	3	3	0	0
Hawaii	133	139	-4.3%	6	7	117	118	10	14	0	0
U.S. Total	52,394	52,094	0.6%	8,927	9,191	41,097	40,414	289	297	2,082	2,193

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	12,979	11,583	12.0%	688	686	11,476	9,973	155	137	659	786
Connecticut	1,147	1,035	10.8%	1	2	1,141	1,029	4	3	NM	0
Maine	5,115	4,671	9.5%	0	0	4,429	3,860	32	29	653	782
Massachusetts	3,269	2,769	18.0%	147	139	3,053	2,570	64	55	5	5
New Hampshire	1,510	1,437	5.1%	0	0	1,465	1,395	45	42	0	0
Rhode Island	865	664	30.2%	0	0	858	658	7	7	0	0
Vermont	1,074	1,008	6.5%	541	544	531	462	2	2	0	0
Middle Atlantic	16,789	14,768	13.7%	122	115	15,391	13,438	662	618	614	597
New Jersey	2,329	2,105	10.6%	122	115	1,889	1,706	311	278	6	7
New York	8,794	7,219	21.8%	0	0	8,401	6,843	218	206	175	170
Pennsylvania	5,666	5,444	4.1%	0	0	5,100	4,889	132	135	433	420
East North Central	57,261	46,293	23.7%	8,337	6,587	47,457	38,245	163	163	1,304	1,297
Illinois	25,082	20,011	25.3%	190	173	24,883	19,833	9	5	0	0
Indiana	11,324	8,859	27.8%	773	660	10,475	8,118	12	21	63	60
Michigan	12,375	10,489	18.0%	5,138	4,093	6,563	5,731	44	46	631	620
Ohio	4,627	3,902	18.6%	16	14	4,286	3,561	17	17	308	310
Wisconsin	3,854	3,032	27.1%	2,220	1,648	1,251	1,002	81	76	303	307
West North Central	139,801	119,566	16.9%	50,864	44,032	87,950	74,524	263	229	724	782
Iowa	45,265	37,525	20.6%	33,416	28,563	11,754	8,886	24	12	71	63
Kansas	29,593	25,813	14.6%	2,130	2,170	27,439	23,626	16	16	NM	3
Minnesota	17,549	15,421	13.8%	4,678	3,814	12,094	10,773	162	144	616	690
Missouri	7,744	6,774	14.3%	3,041	2,372	4,657	4,358	43	41	3	3
Nebraska	12,727	9,745	30.6%	176	175	12,533	9,555	18	15	0	0
North Dakota	16,576	14,937	11.0%	5,828	5,455	10,743	9,480	0	0	5	2
South Dakota	10,347	9,351	10.7%	1,596	1,483	8,730	7,846	0	0	21	23
South Atlantic	58,698	51,215	14.6%	15,838	12,654	32,825	28,319	491	570	9,544	9,672
Delaware	142	136	4.8%	6	6	117	112	8	6	11	11
District of Columbia	87	74	17.9%	0	0	30	18	58	56	0	0
Florida	15,494	13,277	16.7%	11,139	8,790	2,436	2,488	163	178	1,756	1,820
Georgia	12,649	10,714	18.1%	687	589	8,114	6,182	3	2	3,845	3,940
Maryland	1,556	1,524	2.1%	8	8	1,521	1,491	27	25	0	0
North Carolina	13,870	12,660	9.6%	818	762	11,773	10,543	116	167	1,162	1,189
South Carolina	4,565	4,284	6.5%	58	66	2,970	2,860	0	0	1,537	1,358
Virginia	8,281	6,912	19.8%	3,121	2,434	3,810	2,989	118	135	1,232	1,353
West Virginia	2,053	1,634	25.6%	0	0	2,053	1,634	0	0	0	0
East South Central	7,703	7,124	8.1%	171	172	2,219	1,391	5	4	5,308	5,557
Alabama	4,042	3,805	6.2%	26	24	911	514	0	0	3,105	3,267
Kentucky	449	461	-2.5%	142	145	19	16	0	0	289	300
Mississippi	1,793	1,791	0.1%	0	0	517	436	0	0	1,275	1,356
Tennessee	1,418	1,066	33.0%	3	3	771	426	5	4	639	634
West South Central	179,311	152,219	17.8%	3,103	2,189	172,159	145,938	70	76	3,979	4,016
Arkansas	1,605	1,321	21.5%	17	6	742	491	20	23	826	800
Louisiana	2,317	2,286	1.3%	38	35	240	195	0	0	2,040	2,056
Oklahoma	37,814	32,935	14.8%	2,395	1,758	35,124	30,878	0	0	296	299
Texas	137,575	115,677	18.9%	654	390	136,053	114,374	50	53	817	859
Mountain	81,550	69,644	17.1%	15,701	13,598	64,781	55,044	676	629	393	373
Arizona	8,862	8,521	4.0%	709	732	8,115	7,770	22	19	16	0
Colorado	19,319	17,025	13.5%	4,527	4,286	14,775	12,726	14	10	2	3
Idaho	3,973	3,828	3.8%	208	189	3,391	3,263	29	31	345	345
Montana	4,095	3,538	15.7%	1,091	931	2,985	2,587	0	0	19	21
Nevada	13,470	10,893	23.7%	191	185	12,672	10,151	597	553	10	4
New Mexico	16,524	12,407	33.2%	3,157	2,727	13,365	9,678	NM	2	0	0
Utah	5,100	4,805	6.1%	231	211	4,859	4,579	11	14	0	0
Wyoming	10,206	8,627	18.3%	5,587	4,337	4,619	4,290	0	0	0	0
Pacific Contiguous	94,812	89,468	6.0%	8,321	9,026	83,111	77,112	951	949	2,429	2,382
California	72,172	66,585	8.4%	2,011	2,153	68,350	62,747	899	899	911	785
Oregon	12,003	12,025	-0.2%	1,412	1,817	10,008	9,656	39	39	544	513
Washington	10,638	10,859	-2.0%	4,898	5,056	4,753	4,709	13	11	974	1,084
Pacific Noncontiguous	1,966	1,801	9.2%	195	191	1,559	1,410	212	201	0	0
Alaska	187	170	9.7%	97	87	49	45	41	38	0	0
Hawaii	1,780	1,631	9.1%	98	104	1,510	1,365	172	163	0	0
U.S. Total	650,870	563,682	15.5%	103,341	89,249	518,926	445,396	3,648	3,576	24,955	25,461

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	-34	-40	-14.5%	0	0	-34	-40	0	0	0	0
Connecticut	2	0	494.8%	0	0	2	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-36	-40	-10.1%	0	0	-36	-40	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	-108	-104	3.3%	-31	-37	-77	-67	0	0	0	0
New Jersey	-11	-8	37.4%	0	0	-11	-8	0	0	0	0
New York	-31	-37	-16.8%	-31	-37	0	0	0	0	0	0
Pennsylvania	-66	-59	11.2%	0	0	-66	-59	0	0	0	0
East North Central	-85	-56	52.5%	-85	-56	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	-85	-56	52.5%	-85	-56	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	-9	-4	124.6%	-9	-4	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	-9	-4	124.6%	-9	-4	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	-177	-202	-12.4%	-177	-202	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	-32	-43	-25.0%	-32	-43	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	-48	-86	-43.8%	-48	-86	0	0	0	0	0	0
Virginia	-97	-73	32.0%	-97	-73	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-35	-29	21.1%	-35	-29	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	-35	-29	21.1%	-35	-29	0	0	0	0	0	0
West South Central	-6	-3	121.7%	-6	-3	0	0	0	0	0	0
Arkansas	0	1	-100.0%	0	1	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-6	-4	71.6%	-6	-4	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-10	-13	-19.1%	-10	-13	0	0	0	0	0	0
Arizona	-2	-3	-23.5%	-2	-3	0	0	0	0	0	0
Colorado	-8	-10	-17.7%	-8	-10	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	-91	5	NM	-91	5	0	0	0	0	0	0
California	-90	6	NM	-90	6	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	-1	-26.6%	0	-1	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-554	-445	24.5%	-443	-338	-111	-107	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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	-398	-424	-6.0%	0	0	-398	-424	0	0	0	0
Connecticut	1	0	202.3%	0	0	1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-400	-424	-5.8%	0	0	-400	-424	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	-1,328	-1,193	11.3%	-451	-382	-878	-812	0	0	0	0
New Jersey	-136	-120	13.1%	0	0	-136	-120	0	0	0	0
New York	-451	-382	18.1%	-451	-382	0	0	0	0	0	0
Pennsylvania	-742	-692	7.3%	0	0	-742	-692	0	0	0	0
East North Central	-868	-715	21.4%	-868	-715	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	-868	-715	21.4%	-868	-715	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	165	1	NM	165	1	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	165	1	NM	165	1	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	-3,015	-1,941	55.4%	-3,015	-1,941	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	-643	-134	380.9%	-643	-134	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	-870	-768	13.3%	-870	-768	0	0	0	0	0	0
Virginia	-1,502	-1,039	44.6%	-1,502	-1,039	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-491	-577	-14.9%	-491	-577	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	-491	-577	-14.9%	-491	-577	0	0	0	0	0	0
West South Central	-28	-3	769.0%	-28	-3	0	0	0	0	0	0
Arkansas	62	84	-25.6%	62	84	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-90	-87	4.0%	-90	-87	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	76	55	36.8%	76	55	0	0	0	0	0	0
Arizona	97	91	6.7%	97	91	0	0	0	0	0	0
Colorado	-21	-36	-40.2%	-21	-36	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	-145	-315	-54.1%	-145	-315	0	0	0	0	0	0
California	-155	-317	-51.2%	-155	-317	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	10	2	411.2%	10	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	-6,034	-5,112	18.0%	-4,758	-3,876	-1,276	-1,235	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 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	152	166	-8.6%	0	0	133	149	4	3	15	14
Connecticut	38	49	-22.6%	0	0	38	49	0	0	0	0
Maine	29	27	10.4%	0	0	11	10	4	3	15	14
Massachusetts	80	85	-5.7%	0	0	80	85	0	0	0	0
New Hampshire	4	5	-20.8%	0	0	4	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	-39.8%	0	0	0	0	0	0	0	0
Middle Atlantic	213	214	-0.8%	0	0	166	166	47	44	0	4
New Jersey	45	49	-9.1%	0	0	30	29	15	16	0	4
New York	89	79	12.8%	0	0	67	60	21	18	0	0
Pennsylvania	79	87	-8.5%	0	0	69	76	10	10	0	0
East North Central	70	79	-12.4%	2	2	6	5	5	7	57	65
Illinois	20	22	-9.5%	0	0	-1	-1	0	0	21	23
Indiana	34	41	-16.8%	0	0	0	0	0	2	34	39
Michigan	13	14	-11.0%	0	0	7	7	5	5	1	2
Ohio	1	0	498.9%	0	0	0	0	0	0	1	1
Wisconsin	2	2	-4.7%	2	2	0	0	0	0	0	0
West North Central	28	34	-16.6%	12	16	13	14	3	3	0	0
Iowa	0	0	-70.1%	0	0	0	0	0	0	0	0
Kansas	0	0	-100.0%	0	0	0	0	0	0	0	0
Minnesota	24	28	-13.5%	8	11	13	14	3	3	0	0
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	-100.0%	0	0	0	0	0	0	0	0
North Dakota	4	5	-27.4%	4	5	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	277	340	-18.5%	-3	0	175	196	24	31	81	114
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	196	225	-13.1%	-3	0	116	129	15	18	67	78
Georgia	7	6	16.8%	0	0	0	0	0	0	7	6
Maryland	25	34	-25.9%	0	0	25	34	0	0	0	0
North Carolina	6	27	-77.0%	0	0	0	1	0	0	6	26
South Carolina	3	5	-44.6%	0	0	1	1	0	0	2	4
Virginia	42	46	-7.0%	0	0	34	33	8	13	0	0
West Virginia	-1	-1	-8.3%	0	0	-1	-1	0	0	0	0
East South Central	5	5	6.0%	5	4	0	0	0	0	NM	0
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	5	4	6.8%	5	4	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	0	NM	0	0	0	0	0	0	NM	0
West South Central	63	102	-38.5%	5	21	-2	2	0	0	61	79
Arkansas	0	0	-21.6%	0	0	0	0	0	0	0	0
Louisiana	38	52	-26.9%	0	21	0	0	0	0	38	31
Oklahoma	4	0	NM	5	0	0	0	0	0	-1	0
Texas	21	50	-57.4%	0	0	-2	2	0	0	24	48
Mountain	45	59	-23.7%	5	5	18	24	0	0	23	30
Arizona	-1	0	58.1%	0	0	0	0	0	0	0	0
Colorado	4	5	-15.1%	0	0	0	0	0	0	4	4
Idaho	3	5	-43.3%	0	0	0	0	0	0	3	5
Montana	20	24	-17.9%	0	0	20	24	0	0	0	0
Nevada	1	2	-57.7%	3	2	-2	0	0	0	0	0
New Mexico	0	0	350.0%	0	0	0	0	0	0	0	0
Utah	10	16	-34.9%	2	3	0	0	0	0	8	13
Wyoming	8	8	4.3%	0	0	0	0	0	0	8	8
Pacific Contiguous	11	56	-80.8%	-1	-1	-18	6	0	0	31	51
California	4	47	-91.9%	-1	-1	-25	-3	0	0	31	51
Oregon	3	3	-14.4%	0	0	3	3	0	0	0	0
Washington	4	6	-27.0%	0	0	4	6	0	0	0	0
Pacific Noncontiguous	12	17	-29.1%	0	0	0	0	12	17	0	0
Alaska	0	0	4.5%	0	0	0	0	0	0	0	0
Hawaii	12	17	-28.7%	0	0	0	0	12	17	0	0
U.S. Total	875	1,073	-18.4%	24	46	490	563	94	105	267	359

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	1,767	1,820	-2.9%	3	2	1,572	1,653	46	35	145	129
Connecticut	492	571	-13.9%	0	0	492	571	0	0	0	0
Maine	283	267	5.9%	0	0	98	103	40	35	145	129
Massachusetts	939	924	1.6%	0	-1	932	924	7	0	0	0
New Hampshire	50	55	-9.9%	0	0	50	55	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3	2	46.9%	3	3	0	0	0	0	0	0
Middle Atlantic	2,396	2,457	-2.5%	0	0	1,870	1,914	522	518	4	25
New Jersey	519	590	-12.0%	0	0	348	394	167	171	4	25
New York	1,017	963	5.7%	0	0	770	728	247	235	0	0
Pennsylvania	859	904	-4.9%	0	0	752	793	107	111	0	0
East North Central	908	907	0.2%	23	22	73	51	65	80	747	753
Illinois	263	246	7.0%	0	0	-7	-16	0	0	270	262
Indiana	468	489	-4.4%	0	0	0	0	12	24	455	465
Michigan	146	143	2.2%	0	0	80	72	53	56	13	16
Ohio	8	3	131.6%	0	-1	0	-4	0	0	8	8
Wisconsin	24	25	-5.0%	24	23	0	0	0	0	NM	2
West North Central	348	373	-6.6%	162	170	149	159	37	39	1	5
Iowa	0	0	-82.9%	0	0	0	0	0	0	0	0
Kansas	1	5	-83.3%	0	0	0	0	0	0	1	5
Minnesota	305	313	-2.6%	119	116	149	159	37	39	0	0
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	-100.0%	0	0	0	0	0	0	0	0
North Dakota	42	54	-22.6%	42	54	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,517	3,994	-11.9%	-37	-2	2,049	2,240	301	339	1,204	1,417
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	2,403	2,697	-10.9%	-37	-2	1,367	1,441	174	190	899	1,067
Georgia	59	79	-24.8%	0	0	-3	0	0	0	62	79
Maryland	294	376	-22.0%	0	0	294	376	0	0	0	0
North Carolina	208	289	-27.8%	0	0	0	52	0	0	209	237
South Carolina	42	42	-0.1%	0	0	7	9	0	0	35	33
Virginia	523	528	-0.9%	0	0	396	379	127	149	0	0
West Virginia	-12	-16	-24.1%	0	0	-12	-16	0	0	0	0
East South Central	61	77	-20.4%	54	70	0	0	0	0	7	7
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	54	70	-23.1%	54	70	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7	7	8.1%	0	0	0	0	0	0	7	7
West South Central	820	979	-16.3%	14	205	-4	20	0	0	810	755
Arkansas	5	8	-35.4%	0	0	0	0	0	0	5	8
Louisiana	457	550	-17.0%	0	206	0	0	0	0	457	344
Oklahoma	4	2	152.9%	15	0	0	0	0	0	-11	2
Texas	354	420	-15.6%	-1	-1	-4	20	0	0	359	401
Mountain	575	665	-13.5%	61	58	244	283	0	0	270	324
Arizona	-11	-8	40.6%	-4	-1	-7	-6	0	0	0	0
Colorado	48	55	-11.6%	0	0	2	7	0	0	47	48
Idaho	51	62	-18.4%	0	0	0	0	0	0	51	62
Montana	272	283	-3.6%	0	0	272	283	0	0	0	0
Nevada	6	27	-77.7%	30	28	-24	-1	0	0	0	0
New Mexico	0	0	12.4%	0	0	0	0	0	0	0	0
Utah	133	162	-17.9%	35	32	0	0	0	0	97	130
Wyoming	76	84	-9.7%	0	0	0	0	0	0	76	84
Pacific Contiguous	386	677	-42.9%	-25	-14	-56	131	0	0	467	560
California	293	576	-49.2%	-25	-13	-150	29	0	0	467	560
Oregon	35	35	0.0%	0	0	36	36	0	0	0	0
Washington	58	66	-10.8%	0	0	58	66	0	0	0	0
Pacific Noncontiguous	259	192	35.1%	58	-4	0	-2	201	198	0	0
Alaska	-3	-4	-38.9%	-3	-4	0	0	0	0	0	0
Hawaii	262	196	33.6%	60	0	0	-2	201	198	0	0
U.S. Total	11,038	12,140	-9.1%	313	508	5,898	6,449	1,171	1,209	3,656	3,975

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

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

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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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	421	414	1.7%	25	20	392	391	3	3	NM	0
Connecticut	1	1	7.2%	0	0	1	1	0	0	0	0
Maine	285	286	-0.3%	0	0	285	286	0	0	0	0
Massachusetts	18	18	0.4%	4	4	12	12	3	2	NM	0
New Hampshire	48	55	-12.6%	0	0	48	55	0	0	0	0
Rhode Island	25	17	46.4%	0	0	25	17	1	1	0	0
Vermont	43	36	17.9%	21	16	22	21	0	0	0	0
Middle Atlantic	879	944	-6.9%	0	0	878	943	NM	0	NM	0
New Jersey	2	2	30.1%	0	0	2	2	0	0	0	0
New York	513	514	-0.3%	0	0	512	514	NM	0	NM	0
Pennsylvania	364	428	-14.9%	0	0	364	428	0	0	0	0
East North Central	4,509	4,687	-3.8%	631	599	3,865	4,074	NM	3	10	11
Illinois	2,137	2,360	-9.4%	NM	1	2,135	2,358	NM	1	0	0
Indiana	979	923	6.1%	0	0	979	923	0	0	0	0
Michigan	918	895	2.5%	513	477	405	418	0	0	0	0
Ohio	296	326	-9.1%	NM	1	286	315	0	0	NM	10
Wisconsin	179	183	-2.3%	116	120	59	60	NM	2	1	1
West North Central	12,360	12,361	0.0%	4,695	4,735	7,660	7,620	NM	5	NM	1
Iowa	4,285	3,950	8.5%	3,072	3,052	1,213	897	1	0	0	0
Kansas	2,425	2,709	-10.5%	185	224	2,238	2,483	NM	2	NM	1
Minnesota	1,414	1,421	-0.5%	452	454	959	965	NM	3	0	0
Missouri	766	823	-6.9%	320	358	446	464	0	0	0	0
Nebraska	1,242	1,135	9.4%	NM	10	1,232	1,125	0	0	0	0
North Dakota	1,381	1,448	-4.6%	525	514	856	933	0	0	0	0
South Dakota	846	875	-3.3%	130	122	716	753	0	0	0	0
South Atlantic	251	321	-22.0%	5	5	245	316	1	0	0	0
Delaware	1	0	13.5%	0	0	0	0	1	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	38	62	-38.1%	0	0	38	62	0	0	0	0
North Carolina	44	47	-7.0%	0	0	44	47	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	5	5	0.9%	5	5	0	0	0	0	0	0
West Virginia	163	207	-21.2%	0	0	163	207	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	12,930	13,340	-3.1%	185	226	12,742	13,109	3	4	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	3,237	3,219	0.6%	168	207	3,070	3,012	0	0	0	0
Texas	9,693	10,121	-4.2%	17	20	9,672	10,097	3	4	NM	0
Mountain	5,208	5,450	-4.4%	1,428	1,663	3,780	3,785	NM	0	0	0
Arizona	114	157	-27.8%	0	0	114	157	0	0	0	0
Colorado	1,564	1,713	-8.7%	381	460	1,183	1,252	0	0	0	0
Idaho	271	223	21.4%	18	15	254	209	0	0	0	0
Montana	468	374	25.1%	121	114	347	260	0	0	0	0
Nevada	29	45	-36.0%	0	0	29	45	0	0	0	0
New Mexico	1,548	1,513	2.3%	261	322	1,288	1,191	NM	0	0	0
Utah	71	108	-34.3%	0	0	71	108	0	0	0	0
Wyoming	1,143	1,316	-13.1%	648	753	495	563	0	0	0	0
Pacific Contiguous	2,660	2,249	18.3%	478	584	2,181	1,664	1	1	0	0
California	1,207	745	62.0%	32	28	1,174	716	1	1	0	0
Oregon	698	618	13.0%	86	106	611	511	0	0	0	0
Washington	756	887	-14.8%	360	449	396	438	0	0	0	0
Pacific Noncontiguous	62	81	-23.9%	NM	9	53	72	0	0	0	0
Alaska	14	14	3.2%	NM	9	NM	5	0	0	0	0
Hawaii	48	68	-29.3%	0	0	48	68	0	0	0	0
U.S. Total	39,282	39,849	-1.4%	7,457	7,842	31,799	31,979	15	16	12	13

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

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	4,088	3,780	8.1%	250	215	3,805	3,535	32	30	NM	0
Connecticut	13	13	0.6%	0	0	13	13	0	0	0	0
Maine	2,741	2,544	7.8%	0	0	2,741	2,544	0	0	0	0
Massachusetts	220	209	5.4%	53	53	142	133	25	23	NM	0
New Hampshire	482	504	-4.3%	0	0	482	504	0	0	0	0
Rhode Island	222	172	29.0%	0	0	215	165	7	7	0	0
Vermont	409	338	21.0%	197	162	212	176	0	0	0	0
Middle Atlantic	8,576	7,631	12.4%	0	0	8,570	7,626	NM	3	2	2
New Jersey	22	20	9.6%	0	0	22	20	0	0	0	0
New York	4,786	4,156	15.1%	0	0	4,781	4,151	NM	3	2	2
Pennsylvania	3,768	3,455	9.1%	0	0	3,768	3,455	0	0	0	0
East North Central	46,892	38,867	20.6%	6,211	5,032	40,547	33,712	31	29	102	94
Illinois	23,063	19,133	20.5%	13	11	23,045	19,117	NM	5	0	0
Indiana	9,766	7,857	24.3%	0	0	9,766	7,857	0	0	0	0
Michigan	9,110	7,697	18.4%	5,050	4,007	4,059	3,690	0	0	0	0
Ohio	3,152	2,587	21.9%	8	7	3,046	2,489	4	3	95	88
Wisconsin	1,801	1,593	13.0%	1,140	1,007	631	559	23	21	8	7
West North Central	135,323	115,451	17.2%	50,339	43,675	84,930	71,731	46	43	NM	3
Iowa	44,664	37,098	20.4%	33,232	28,529	11,428	8,566	5	3	0	0
Kansas	29,469	25,694	14.7%	2,128	2,167	27,317	23,509	16	16	NM	3
Minnesota	14,273	12,271	16.3%	4,485	3,640	9,763	8,608	26	24	0	0
Missouri	7,467	6,534	14.3%	2,971	2,312	4,496	4,223	0	0	0	0
Nebraska	12,555	9,592	30.9%	99	90	12,455	9,502	0	0	0	0
North Dakota	16,571	14,935	10.9%	5,828	5,455	10,743	9,480	0	0	0	0
South Dakota	10,325	9,327	10.7%	1,596	1,483	8,728	7,844	0	0	0	0
South Atlantic	3,134	2,711	15.6%	51	50	3,079	2,656	4	5	0	0
Delaware	4	5	-9.7%	0	0	0	0	4	5	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	498	517	-3.8%	0	0	498	517	0	0	0	0
North Carolina	537	515	4.3%	0	0	537	515	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	51	50	2.6%	51	50	0	0	0	0	0	0
West Virginia	2,045	1,624	25.9%	0	0	2,045	1,624	0	0	0	0
East South Central	31	28	10.6%	0	0	31	28	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	31	28	10.6%	0	0	31	28	0	0	0	0
West South Central	151,299	132,015	14.6%	2,527	1,887	148,719	130,073	46	50	NM	4
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	37,418	32,540	15.0%	2,317	1,685	35,101	30,855	0	0	0	0
Texas	113,880	99,474	14.5%	210	202	113,618	99,218	46	50	NM	4
Mountain	50,733	43,073	17.8%	14,134	12,041	36,594	31,027	NM	2	2	3
Arizona	1,564	1,600	-2.2%	0	0	1,564	1,600	0	0	0	0
Colorado	16,706	15,126	10.4%	4,514	4,272	12,190	10,851	0	0	2	3
Idaho	2,886	2,680	7.7%	191	175	2,696	2,505	0	0	0	0
Montana	4,034	3,473	16.2%	1,081	919	2,953	2,553	0	0	0	0
Nevada	316	340	-7.2%	0	0	316	340	0	0	0	0
New Mexico	14,480	10,581	36.9%	2,762	2,338	11,715	8,241	NM	2	0	0
Utah	726	825	-12.0%	0	0	726	825	0	0	0	0
Wyoming	10,020	8,448	18.6%	5,587	4,337	4,433	4,111	0	0	0	0
Pacific Contiguous	33,958	33,851	0.3%	6,715	7,351	27,232	26,487	6	6	4	6
California	15,690	15,177	3.4%	802	873	14,878	14,292	6	6	4	6
Oregon	9,120	9,376	-2.7%	1,348	1,751	7,771	7,624	0	0	0	0
Washington	9,148	9,298	-1.6%	4,565	4,726	4,583	4,571	0	0	0	0
Pacific Noncontiguous	778	790	-1.5%	95	87	683	703	0	0	0	0
Alaska	144	132	9.1%	95	87	49	45	0	0	0	0
Hawaii	634	658	-3.6%	0	0	634	658	0	0	0	0
U.S. Total	434,812	378,197	15.0%	80,322	70,338	354,191	307,579	172	168	127	112

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Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
New England	479	474	1.0%	40	35	366	354	8	8	65	77
Connecticut	57	65	-12.3%	0	0	57	65	0	0	0	0
Maine	172	167	3.1%	0	0	104	88	3	2	65	77
Massachusetts	85	91	-6.9%	0	0	83	89	2	2	0	0
New Hampshire	89	80	11.3%	0	0	86	76	3	4	0	0
Rhode Island	21	22	-7.3%	0	0	21	22	0	0	0	0
Vermont	55	49	12.9%	40	35	15	14	0	0	0	0
Middle Atlantic	365	367	-0.6%	0	0	275	273	42	41	49	53
New Jersey	56	59	-4.8%	0	0	43	46	13	14	0	0
New York	167	161	4.0%	0	0	136	128	18	15	13	18
Pennsylvania	141	147	-3.8%	0	0	95	100	11	12	36	35
East North Central	403	404	-0.2%	86	80	207	205	9	12	102	107
Illinois	32	31	2.2%	14	14	18	17	0	0	0	0
Indiana	31	37	-14.3%	22	25	4	5	0	2	6	5
Michigan	199	179	11.2%	0	0	141	121	4	4	54	54
Ohio	34	52	-34.7%	0	0	16	35	1	1	17	17
Wisconsin	106	104	1.7%	50	42	27	27	4	5	24	30
West North Central	148	147	0.6%	19	27	44	43	15	20	70	57
Iowa	16	17	-2.4%	NM	2	8	8	2	1	5	5
Kansas	5	5	-2.7%	0	0	5	5	0	0	0	0
Minnesota	110	105	4.6%	11	15	28	27	9	13	62	50
Missouri	8	10	-25.4%	NM	4	3	3	3	4	0	0
Nebraska	7	8	-12.4%	5	6	0	0	2	2	0	0
North Dakota	NM	0	NM	0	0	0	0	0	0	NM	0
South Dakota	NM	2	NM	0	0	0	0	0	0	NM	2
South Atlantic	1,507	1,626	-7.3%	170	180	527	569	27	34	782	843
Delaware	6	7	-12.8%	0	0	5	6	0	0	NM	1
District of Columbia	5	5	-8.5%	0	0	0	0	5	5	0	0
Florida	362	386	-6.2%	68	71	127	139	14	16	153	159
Georgia	466	525	-11.2%	0	0	152	175	0	0	314	350
Maryland	25	33	-25.6%	0	0	24	32	1	1	0	0
North Carolina	164	169	-2.6%	0	0	66	62	0	0	98	107
South Carolina	187	169	11.1%	4	5	58	52	0	0	125	112
Virginia	291	331	-12.0%	99	103	94	102	8	12	91	114
West Virginia	0	1	-100.0%	0	0	0	1	0	0	0	0
East South Central	467	493	-5.2%	8	9	11	12	0	0	448	472
Alabama	272	259	4.9%	0	0	4	4	0	0	268	255
Kentucky	31	40	-21.9%	8	9	NM	1	0	0	22	30
Mississippi	106	132	-19.8%	0	0	NM	1	0	0	105	131
Tennessee	59	62	-5.9%	0	0	6	6	0	0	53	56
West South Central	385	401	-4.1%	37	0	27	38	0	0	321	363
Arkansas	61	76	-19.8%	0	0	5	6	0	0	56	70
Louisiana	180	192	-6.4%	0	0	7	7	0	0	173	185
Oklahoma	25	31	-19.5%	0	0	NM	2	0	0	23	29
Texas	119	102	16.8%	37	0	13	24	0	0	68	78
Mountain	86	91	-5.4%	NM	2	47	54	4	4	33	31
Arizona	19	19	2.0%	0	0	19	19	0	0	0	0
Colorado	11	15	-23.1%	0	0	11	15	0	0	0	0
Idaho	40	41	-3.6%	NM	1	5	8	3	3	31	29
Montana	3	3	1.0%	NM	1	0	0	0	0	2	2
Nevada	4	4	-6.7%	0	0	4	4	0	0	0	0
New Mexico	2	2	13.0%	0	0	2	2	0	0	0	0
Utah	7	7	-6.1%	0	0	5	6	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	652	639	2.0%	36	44	364	366	66	59	187	170
California	443	443	0.1%	2	5	324	330	61	55	55	52
Oregon	87	78	11.1%	5	5	33	28	4	3	46	42
Washington	122	118	3.2%	29	34	6	8	1	1	86	75
Pacific Noncontiguous	23	27	-15.6%	1	2	9	8	13	17	0	0
Alaska	3	3	-2.6%	0	0	0	0	3	3	0	0
Hawaii	20	24	-17.2%	1	2	9	8	10	14	0	0
U.S. Total	4,515	4,670	-3.3%	399	379	1,875	1,924	184	195	2,056	2,172

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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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	5,253	5,332	-1.5%	282	326	4,207	4,126	111	98	653	782
Connecticut	695	757	-8.2%	0	0	695	757	0	0	0	0
Maine	1,866	1,969	-5.2%	0	0	1,181	1,158	32	29	653	782
Massachusetts	998	973	2.6%	0	0	967	947	32	26	0	0
New Hampshire	1,024	929	10.3%	0	0	979	887	45	42	0	0
Rhode Island	217	208	4.2%	0	0	217	208	0	0	0	0
Vermont	452	496	-8.9%	282	326	169	168	2	2	0	0
Middle Atlantic	4,213	4,377	-3.8%	0	0	3,152	3,330	474	473	587	574
New Jersey	669	708	-5.5%	0	0	523	558	146	149	0	0
New York	1,899	1,903	-0.2%	0	0	1,533	1,549	204	193	162	162
Pennsylvania	1,645	1,766	-6.9%	0	0	1,096	1,222	124	131	425	413
East North Central	4,924	4,877	1.0%	1,000	836	2,608	2,717	115	123	1,201	1,201
Illinois	397	364	9.0%	175	159	223	205	0	0	0	0
Indiana	396	429	-7.8%	269	288	54	62	10	19	63	60
Michigan	2,372	2,369	0.1%	0	0	1,698	1,703	43	45	631	620
Ohio	537	643	-16.5%	0	0	317	414	7	8	212	221
Wisconsin	1,223	1,072	14.1%	557	388	317	333	54	51	295	300
West North Central	1,712	1,757	-2.5%	270	287	511	505	216	185	716	780
Iowa	207	201	2.8%	20	25	97	105	19	9	71	63
Kansas	57	59	-2.5%	0	0	57	59	0	0	0	0
Minnesota	1,220	1,256	-2.8%	148	142	321	304	136	120	616	690
Missouri	115	124	-7.0%	34	42	36	38	43	41	3	3
Nebraska	87	92	-6.4%	68	77	0	0	18	15	0	0
North Dakota	5	2	184.5%	0	0	0	0	0	0	5	2
South Dakota	21	23	-8.9%	0	0	0	0	0	0	21	23
South Atlantic	17,906	18,209	-1.7%	1,854	1,769	6,180	6,352	336	424	9,536	9,665
Delaware	70	74	-4.5%	0	0	59	62	0	0	11	11
District of Columbia	58	56	3.5%	0	0	0	0	58	56	0	0
Florida	4,130	4,228	-2.3%	705	685	1,519	1,555	154	171	1,753	1,817
Georgia	5,727	5,846	-2.0%	0	0	1,882	1,905	0	0	3,845	3,940
Maryland	296	375	-20.9%	0	0	288	366	8	9	0	0
North Carolina	1,856	2,023	-8.2%	0	0	693	779	0	55	1,162	1,189
South Carolina	2,219	2,005	10.7%	49	58	637	593	0	0	1,533	1,354
Virginia	3,541	3,594	-1.5%	1,099	1,026	1,094	1,081	116	134	1,232	1,353
West Virginia	9	10	-16.3%	0	0	9	10	0	0	0	0
East South Central	5,534	5,792	-4.5%	95	100	137	141	0	0	5,302	5,551
Alabama	3,149	3,311	-4.9%	0	0	44	44	0	0	3,105	3,267
Kentucky	398	415	-4.0%	95	100	14	15	0	0	289	300
Mississippi	1,286	1,367	-5.9%	0	0	10	11	0	0	1,275	1,356
Tennessee	701	700	0.3%	0	0	68	72	0	0	633	628
West South Central	4,775	4,598	3.8%	429	173	388	412	1	4	3,958	4,009
Arkansas	880	859	2.5%	0	0	57	57	1	4	823	797
Louisiana	2,124	2,140	-0.7%	0	0	84	84	0	0	2,040	2,056
Oklahoma	314	318	-1.3%	0	0	18	19	0	0	296	299
Texas	1,456	1,281	13.6%	429	173	228	253	0	0	800	856
Mountain	1,035	1,057	-2.2%	24	25	610	624	40	45	361	364
Arizona	221	210	5.0%	0	0	221	210	0	0	0	0
Colorado	166	169	-1.7%	0	0	166	169	0	0	0	0
Idaho	466	490	-4.9%	13	14	81	103	29	31	342	343
Montana	30	32	-7.6%	11	12	0	0	0	0	19	21
Nevada	52	50	3.3%	0	0	52	50	0	0	0	0
New Mexico	26	26	0.7%	0	0	26	26	0	0	0	0
Utah	75	81	-7.5%	0	0	64	66	11	14	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	7,790	7,932	-1.8%	395	452	4,429	4,435	730	756	2,237	2,289
California	5,352	5,416	-1.2%	12	70	3,943	3,948	678	706	719	692
Oregon	1,043	1,005	3.8%	58	60	402	393	39	39	544	513
Washington	1,396	1,511	-7.6%	325	322	84	94	13	11	974	1,084
Pacific Noncontiguous	316	321	-1.4%	15	24	95	96	205	200	0	0
Alaska	41	38	7.3%	0	0	0	0	41	38	0	0
Hawaii	275	283	-2.5%	15	24	95	96	165	162	0	0
U.S. Total	53,458	54,252	-1.5%	4,363	3,993	22,317	22,738	2,228	2,309	24,551	25,213

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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, December 2022 and 2021 (Thousand Megawatthours)**

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
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	469	453	3.6%	21	21	390	375	58	57	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	NM	9	NM	0	0	NM	9	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	412	396	3.9%	0	0	354	339	58	57	0	0
New Mexico	5	5	1.7%	0	0	5	5	0	0	0	0
Utah	44	42	4.3%	21	21	23	21	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,064	1,015	4.9%	55	67	1,009	948	0	0	0	0
California	1,043	998	4.5%	55	67	988	931	0	0	0	0
Oregon	21	16	27.9%	0	0	21	16	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	30	17	79.4%	0	0	30	17	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	30	17	79.4%	0	0	30	17	0	0	0	0
U.S. Total	1,564	1,484	5.3%	77	88	1,429	1,340	58	57	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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 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	4,692	4,481	4.7%	231	211	3,918	3,768	542	502	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	85	93	-9.0%	0	0	85	93	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	4,108	3,917	4.9%	0	0	3,565	3,416	542	502	0	0
New Mexico	47	51	-7.6%	0	0	47	51	0	0	0	0
Utah	452	420	7.8%	231	211	221	208	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	12,009	11,310	6.2%	764	796	11,245	10,514	0	0	0	0
California	11,810	11,128	6.1%	764	796	11,046	10,331	0	0	0	0
Oregon	199	183	8.9%	0	0	199	183	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	302	183	64.5%	0	0	302	183	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	302	183	64.5%	0	0	302	183	0	0	0	0
U.S. Total	17,002	15,975	6.4%	995	1,007	15,465	14,466	542	502	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.

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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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors						Electric Power Sector				Commercial Sector				Industrial Sector				Residential Sector							
	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 Small Scale Generation								
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021							
New England	424	307	38.0%	170	95	254	212	6	5	163	90	NM	132	NM	0	148	131	NM	8	NM	0	9	8	97	72	
Connecticut	69	58	18.4%	20	13	49	45	0	0	19	13	NM	19	NM	0	19	19	NM	3	NM	0	3	3	27	24	
Maine	48	17	175.2%	24	8	24	9	0	0	24	8	19	5	0	0	19	5	0	0	0	0	0	0	5	4	
Massachusetts	228	173	31.5%	98	61	129	112	4	3	93	58	NM	80	NM	0	80	80	NM	5	NM	0	5	5	45	27	
New Hampshire	NM	11	NM	NM	0	13	11	0	0	NM	0	5	4	0	0	5	4	1	1	0	0	1	1	7	6	
Rhode Island	49	34	41.7%	20	9	29	26	0	0	20	9	22	20	0	0	22	20	0	0	0	0	0	0	7	6	
Vermont	17	13	34.6%	8	4	9	9	1	1	7	3	4	3	0	0	4	3	0	0	0	0	0	0	6	5	
Middle Atlantic	584	476	22.8%	200	145	384	330	6	6	184	130	206	173	8	8	197	165	NM	17	NM	1	18	16	169	149	
New Jersey	248	226	10.0%	78	77	170	149	6	6	64	63	94	80	8	7	86	72	NM	12	NM	0	12	12	72	65	
New York	280	202	38.3%	108	58	172	144	0	0	107	57	NM	81	NM	0	99	81	NM	1	NM	0	1	1	72	63	
Pennsylvania	56	48	17.2%	14	11	42	37	0	0	13	10	NM	12	NM	0	12	12	NM	4	NM	0	5	4	25	21	
East North Central	313	266	17.6%	208	165	105	102	51	24	157	140	NM	NM	NM	NM	55	49	4	3	0	0	4	3	46	50	
Illinois	121	112	7.5%	67	52	54	60	NM	0	67	52	NM	31	NM	0	32	31	0	0	0	0	0	0	0	21	29
Indiana	59	63	-5.8%	45	52	14	11	23	14	22	38	NM	5	NM	0	8	5	0	0	0	0	0	0	0	6	5
Michigan	43	27	58.3%	32	19	11	9	3	3	29	16	NM	3	NM	0	4	3	0	0	0	0	0	0	0	7	5
Ohio	45	41	11.4%	30	28	15	13	NM	0	29	28	NM	NM	NM	NM	6	5	2	1	0	0	2	1	7	6	
Wisconsin	45	24	92.0%	34	14	12	9	25	7	9	7	NM	4	NM	0	5	4	1	1	0	0	1	1	6	4	
West North Central	186	128	45.8%	118	74	68	54	14	3	104	71	25	22	0	0	25	22	3	2	0	0	3	2	41	30	
Iowa	33	22	47.7%	17	10	16	13	10	0	7	9	8	7	0	0	8	7	1	0	0	0	1	0	7	5	
Kansas	9	7	32.6%	3	3	6	4	NM	0	3	2	1	0	0	0	2	1	0	0	0	0	0	0	0	4	3
Minnesota	99	61	63.1%	87	52	12	9	NM	1	85	51	3	3	0	0	3	3	1	1	0	0	1	1	8	6	
Missouri	38	33	14.6%	7	7	31	26	NM	1	6	6	10	10	0	0	10	10	1	1	0	0	1	1	20	16	
Nebraska	6	4	58.1%	4	2	2	2	NM	0	3	2	1	0	0	0	1	0	0	0	0	0	0	0	0	2	1
North Dakota	0	0	25.7%	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	NM	0	0	0
South Atlantic	2,397	2,151	11.4%	1,973	1,839	424	312	818	748	1,148	1,083	77	69	7	7	70	62	NM	23	NM	0	24	23	331	228	
Delaware	13	11	15.2%	4	3	9	8	NM	0	4	2	NM	2	NM	0	2	2	1	1	0	0	1	1	6	6	
District of Columbia	NM	11	NM	NM	1	11	10	0	0	NM	1	4	4	0	0	4	4	0	0	0	0	0	0	0	7	6
Florida	920	795	15.6%	707	658	213	137	654	599	52	59	NM	15	NM	0	17	15	NM	1	NM	0	1	1	194	121	
Georgia	328	NM	NM	361	303	NM	25	36	34	324	269	NM	4	NM	0	5	4	NM	16	0	0	NM	16	NM	5	
Maryland	106	81	30.4%	45	32	61	49	NM	0	44	31	NM	17	NM	1	19	16	2	2	0	0	2	2	40	31	
North Carolina	577	576	0.2%	534	544	43	32	37	39	492	498	16	15	5	6	11	9	1	1	0	0	1	1	31	22	
South Carolina	137	141	-2.8%	106	114	32	28	NM	0	105	113	7	6	0	0	7	6	NM	3	NM	0	3	3	22	19	
Virginia	239	207	15.8%	214	184	25	23	89	74	126	110	NM	5	NM	0	5	5	0	0	0	0	0	0	19	17	
West Virginia	2	1	48.6%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	1
East South Central	106	85	24.7%	92	73	14	12	3	3	88	69	NM	7	NM	0	7	7	0	0	0	0	0	0	0	7	5
Alabama	NM	37	NM	33	36	NM	1	NM	1	32	35	NM	1	0	0	NM	1	0	0	0	0	0	0	0	NM	0
Kentucky	12	7	76.7%	6	2	6	4	2	2	3	0	2	2	0	0	2	2	0	0	0	0	0	0	0	4	3
Mississippi	25	22	12.3%	23	21	2	1	0	0	23	21	1	1	0	0	1	1	0	0	0	0	0	0	0	1	1
Tennessee	35	19	84.1%	30	14	5	5	NM	0	30	14	NM	3	NM	0	3	3	NM	NM	0	0	NM	NM	2	2	
West South Central	1,431	1,276	12.1%	1,152	1,075	280	201	7	7	1,143	1,067	40	32	1	1	39	31	NM	2	NM	0	2	2	239	169	
Arkansas	44	32	37.6%	27	21	17	11	NM	0	26	20	6	5	1	1	5	4	NM	2	NM	0	2	2	10	5	
Louisiana	28	23	22.3%	11	7	17	16	2	2	9	5	1	1	0	0	1	1	0	0	0	0	0	0	0	16	15
Oklahoma	11	8	29.7%	4	4	7	4	3	4	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	0	6	4
Texas	1,347	1,212	11.1%	1,110	1,043	238	170	NM	1	1,108	1,042	NM	25	NM	0	31	25	NM	0	NM	0	NM	0	207	145	
Mountain	1,662	1,492	11.4%	1,147	1,024	515	468	64	62	1,077	957	88	115	4	4	83	111	NM	8	NM	1	9	7	423	350	
Arizona	550	535	2.8%	313	299	237	236	31	34	280	264	NM	67	NM	1	36	66	NM	1	NM	0	1	1	200	169	
Colorado	229	198	15.8%	142	120	87	78	NM	1	140	119	NM	21	NM	1	21	21	2	1	0	0	2	1	64	56	
Idaho	29	19	48.5%	21	14	8	6	5	0	16	13	0	0	0	0	0	0	NM	1	NM	0	1	1	6	4	
Montana	3	3	23.0%	1	1	3	2	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	2	1
Nevada	500	419	19.4%	412	348	89	70	8	8	400	338	10	10	3	2	8	8	NM	3	NM	1	5	3	77	60	
New Mexico	143	125	14.2%	100	89	44	36	20	20	80	69	10	9	0	0	10	9	0	0	0	0	0	0	34	27	
Utah	201	186	7.8%	154	147	46	39	0	0	154	147	7	6	0	0	7	6	1	1	0	0	1	1	38	32	
Wyoming	7	7	-1.4%	6	6	1	1	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pacific Contiguous	3,209	2,670	20.2%	1,839	1,478	1,369	1,192	21	19	1,799	1,447	320	292	10	8	310	284	171	162	9	5	162	157	898	751	
California	3,106	2,612	18.9%	1,764	1,442	1,342	1,171	21	18	1,725	1,411	314	287	10	8	304	279	170	161	9	5	161	156	877	736	
Oregon	78	46	68.0%	63	35	14	11	NM	0	63</																

Table 1.17.B. Net Generation from Solar Photovoltaic by State, by Sector, Year-to-Date through December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors						Electric Power Sector						Commercial Sector						Industrial Sector						Residential Sector	
	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 Small Scale Generation	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	
New England	8,518	6,769	25.8%	3,638	2,471	4,880	4,298	156	144	3,464	2,312	2,737	2,411	12	10	2,725	2,401	166	160	6	5	160	155	1,995	1,742	
Connecticut	1,398	1,129	23.8%	439	265	959	863	1	2	433	259	367	342	4	3	363	339	50	46	NM	0	0	49	46	548	479
Maine	843	293	187.5%	507	158	336	136	0	0	507	158	253	68	0	0	253	68	0	0	0	0	0	0	0	83	67
Massachusetts	4,679	4,120	13.6%	2,050	1,587	2,628	2,533	94	86	1,944	1,490	1,552	1,572	8	7	1,544	1,565	100	100	5	5	95	95	989	873	
New Hampshire	239	197	21.4%	4	4	235	193	0	0	4	4	95	73	0	0	95	73	11	11	0	0	11	11	129	110	
Rhode Island	945	671	40.8%	426	284	518	387	0	0	426	284	393	286	0	0	393	286	3	1	0	0	3	1	123	99	
Vermont	415	360	15.4%	212	173	203	186	62	56	151	118	78	70	0	0	78	70	2	2	0	0	2	2	123	114	
Middle Atlantic	11,112	8,786	26.5%	4,001	2,760	7,112	6,025	122	115	3,669	2,483	3,755	3,052	185	142	3,570	2,910	328	310	24	21	304	289	3,239	2,826	
New Jersey	4,627	4,043	14.5%	1,638	1,378	2,989	2,665	122	115	1,345	1,128	1,583	1,373	165	128	1,418	1,245	214	209	6	7	208	202	1,363	1,218	
New York	5,470	3,861	41.7%	2,109	1,159	3,361	2,702	0	0	2,088	1,143	1,933	1,465	11	10	1,922	1,455	28	24	11	6	18	17	1,421	1,230	
Pennsylvania	1,015	882	15.1%	253	224	761	658	0	0	236	212	238	214	9	4	229	210	86	77	8	7	77	69	455	379	
East North Central	7,719	4,344	77.7%	5,446	2,549	2,273	1,795	1,126	720	4,301	1,816	1,253	979	17	12	1,236	967	81	73	1	2	80	71	958	757	
Illinois	2,823	1,438	96.3%	1,622	513	1,201	925	2	2	1,615	511	749	573	4	0	745	573	4	2	0	0	4	2	452	350	
Indiana	1,442	791	82.3%	1,162	573	281	218	505	372	655	199	166	108	2	2	163	106	7	8	0	0	7	8	110	104	
Michigan	1,139	616	84.9%	894	424	246	192	88	85	805	338	94	79	NM	0	93	79	5	4	0	0	5	4	148	109	
Ohio	1,262	950	32.8%	938	673	324	278	8	8	922	658	145	133	6	6	139	127	39	35	1	2	37	33	148	118	
Wisconsin	1,053	549	91.8%	831	367	222	182	523	253	303	110	99	85	4	4	95	81	27	24	0	0	27	24	100	76	
West North Central	3,972	3,310	20.0%	2,765	2,358	1,206	952	256	71	2,509	2,287	464	402	0	0	464	402	52	44	0	0	52	44	690	507	
Iowa	702	472	48.8%	394	225	308	247	165	9	229	216	172	146	0	0	172	146	12	9	0	0	12	9	123	91	
Kansas	154	122	26.4%	67	61	87	61	2	3	65	58	27	22	0	0	27	22	1	0	0	0	1	0	59	38	
Minnesota	2,298	2,077	10.7%	2,055	1,893	243	183	45	33	2,010	1,861	71	52	0	0	71	52	23	21	0	0	23	21	149	110	
Missouri	690	549	25.6%	161	116	528	433	36	18	125	98	184	172	0	0	183	172	12	10	0	0	12	10	333	251	
Nebraska	122	86	42.4%	86	61	36	25	8	8	78	53	9	8	0	0	9	8	3	3	0	0	3	3	24	15	
North Dakota	2	1	27.2%	0	0	2	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1	
South Dakota	4	4	10.8%	2	2	2	2	0	0	2	2	1	1	0	0	1	1	0	0	0	0	0	0	2	1	
South Atlantic	43,705	34,880	25.3%	37,629	30,266	6,075	4,614	13,906	10,807	23,565	19,311	1,219	1,103	151	141	1,069	962	385	378	8	7	377	371	4,630	3,282	
Delaware	214	196	9.5%	67	57	147	139	6	6	58	50	35	31	3	2	31	30	12	12	0	0	12	12	104	97	
District of Columbia	203	166	22.3%	30	18	174	148	0	0	30	18	67	61	0	0	67	61	0	0	0	0	0	0	107	87	
Florida	14,030	10,725	30.8%	11,336	9,020	2,694	1,705	10,406	8,076	918	934	247	212	8	7	238	205	20	19	4	3	16	16	2,439	1,484	
Georgia	7,372	5,241	40.7%	6,922	4,868	450	372	687	589	6,233	4,277	74	63	3	2	71	61	256	254	0	0	256	254	122	57	
Maryland	1,863	1,657	12.4%	762	632	1,101	1,025	8	8	735	608	324	308	19	17	305	292	28	28	0	0	28	28	768	705	
North Carolina	12,078	10,578	14.2%	11,477	10,123	600	455	818	762	10,543	9,249	282	254	116	112	166	141	16	15	0	0	16	15	418	299	
South Carolina	2,832	2,707	4.6%	2,346	2,280	487	428	9	8	2,333	2,267	97	84	0	0	97	84	46	47	4	4	42	43	348	301	
Virginia	5,079	3,588	41.6%	4,689	3,267	390	320	1,971	1,358	2,716	1,908	86	83	2	2	84	81	5	3	0	0	5	3	301	236	
West Virginia	33	22	50.7%	0	0	33	22	0	0	0	0	9	6	0	0	9	6	1	0	0	0	1	0	24	15	
East South Central	2,381	1,497	59.1%	2,138	1,303	243	193	76	72	2,051	1,222	131	114	5	4	126	110	10	9	6	6	3	3	114	80	
Alabama	918	513	79.1%	894	494	25	19	26	24	867	470	18	13	0	0	18	13	1	1	0	0	1	1	5	4	
Kentucky	157	115	36.1%	51	46	106	69	47	45	5	1	37	28	0	0	37	28	2	2	0	0	2	2	67	40	
Mississippi	530	441	20.2%	507	425	23	16	0	0	507	425	11	7	0	0	11	7	1	1	0	0	1	1	11	8	
Tennessee	775	427	81.5%	686	339	90	89	3	3	672	326	65	65	5	4	60	61	6	6	6	6	0	0	30	28	
West South Central	26,950	18,372	46.7%	23,237	15,606	3,713	2,765	148	129	23,052	15,453	559	508	23	21	535	486	48	34	14	3	34	31	3,144	2,248	
Arkansas	954	631	51.2%	725	462	229	169	17	6	685	434	92	81	19	19	73	62	36	30	3	3	33	27	124	80	
Louisiana	466	407	14.4%	193	146	273	261	38	35	155	111	20	18	0	0	20	18	0	0	0	0	0	0	253	242	
Oklahoma	167	128	30.5%	82	77	86	52	77	73	4	4	12	8	0	0	12	8	1	1	0	0	1	1	73	43	
Texas	25,363	17,205	47.4%	22,238	14,921	3,125	2,284	16	15	22,207	14,903	435	400	4	2	431	397	11	3	11	0	0	3	2,694	1,884	
Mountain	32,064	26,964	18.9%	24,200	20,168	7,864	6,797	1,312	1,321	22,767	18,761	1,623	1,681	91	80	1,532	1,601	157	107	29	6	128	100	6,204	5,096	
Arizona	10,019	9,387	6.7%	6,382	6,016	3,638	3,371	709	732	5,634	5,265	807	953	22	19	784	934	30	14	16	0	14	14	2,840	2,423	
Colorado	3,780	2,786	35.7%	2,446	1,730	1,334	1,056	13	13	2,419	1,707	349	297	14	10	335	287	23	19	0	0	23	19	976	750	
Idaho	715	684	4.5%	536	565	179	119	5	0	529	562	12	10	0	0	12	10	31	15	3	3	28	12	139	97	
Montana	85	76	11.4%	32	33	53	43	0	0	32	33	14	12	0	0	14	12	0	0	0	0	0	0	39	30	
Nevada	10,095	7,485	34.9%	8,803	6,415	1,292	1,071	191	185																	

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	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	
	December 2022	December 2021	Percentage Change	December 2022	December 2021						
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	1	-100.0%	0	1	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	1	-100.0%	0	1	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	30	29	6.8%	0	0	30	29	0	0	0	0
Arizona	22	22	-1.7%	0	0	22	22	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	9	7	33.4%	0	0	9	7	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	0	--	0	0	NM	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	68	63	9.1%	0	0	68	63	0	0	0	0
California	68	63	9.1%	0	0	68	63	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	99	92	7.7%	0	1	99	91	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 2022 are preliminary. Values for 2021 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 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	28	29	-1.9%	28	29	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	28	29	-1.9%	28	29	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	891	865	3.0%	0	0	891	865	0	0	0	0
Arizona	696	695	0.2%	0	0	696	695	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	192	170	12.9%	0	0	192	170	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	3	0	--	0	0	3	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,083	2,030	2.6%	0	0	2,083	2,030	0	0	0	0
California	2,083	2,030	2.6%	0	0	2,083	2,030	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,003	2,924	2.7%	28	29	2,975	2,895	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 2022 are preliminary. Values for 2021 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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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	537,620	399,545	135,838	76	2,161
2020	435,351	325,352	108,125	72	1,802
2021	500,298	372,694	125,851	87	1,666
2022	468,779	348,344	118,644	84	1,706
Year 2020					
January	36,810	27,330	9,285	7	189
February	32,074	23,698	8,192	9	175
March	29,028	21,713	7,145	7	163
April	23,654	17,026	6,481	4	143
May	26,801	19,829	6,829	4	139
June	36,589	27,777	8,677	5	129
July	49,751	38,259	11,347	5	141
August	50,406	38,919	11,340	4	142
Sept	38,685	29,643	8,884	7	151
October	33,823	24,914	8,758	6	145
November	34,271	24,622	9,506	6	137
December	43,459	31,623	11,680	8	149
Year 2021					
January	45,095	33,198	11,750	8	139
February	47,821	36,196	11,485	11	128
March	34,416	25,651	8,631	7	127
April	29,995	22,448	7,420	6	121
May	35,613	26,977	8,492	4	140
June	47,913	36,142	11,622	6	144
July	56,262	42,104	14,007	7	145
August	56,131	42,391	13,587	7	145
Sept	44,291	33,553	10,578	8	153
October	35,574	25,681	9,746	9	138
November	32,719	23,460	9,102	8	149
December	34,469	24,894	9,431	7	138
Year 2022					
January	48,491	35,513	12,822	8	148
February	39,703	28,501	11,055	6	141
March	34,129	24,089	9,881	5	154
April	30,634	21,953	8,551	3	127
May	34,866	26,339	8,367	7	152
June	41,533	31,859	9,517	8	149
July	49,235	37,818	11,260	8	150
August	48,108	36,224	11,723	9	152
Sept	37,106	28,080	8,883	9	134
October	31,313	23,269	7,908	7	128
November	32,169	23,234	8,800	7	128
December	41,491	31,465	9,877	7	142
Year to Date					
2020	435,351	325,352	108,125	72	1,802
2021	500,298	372,694	125,851	87	1,666
2022	468,779	348,344	118,644	84	1,706
Rolling 12 Months Ending in December					
2021	500,298	372,694	125,851	87	1,666
2022	468,779	348,344	118,644	84	1,706

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	10,402	1,635	715	401	7,651
2021	11,301	2,153	667	447	8,034
2022	11,805	2,229	720	424	8,432
Year 2020					
January	1,057	167	69	43	778
February	974	146	64	44	719
March	864	111	56	38	660
April	763	93	58	26	586
May	758	112	49	26	571
June	743	122	48	27	546
July	850	162	52	27	609
August	837	158	57	30	592
Sept	813	131	55	33	594
October	904	148	67	29	661
November	846	124	65	33	624
December	993	162	74	45	712
Year 2021					
January	1,027	183	64	45	735
February	994	185	72	55	683
March	949	166	67	43	674
April	858	143	45	33	637
May	835	130	51	27	627
June	896	187	52	28	630
July	993	211	54	29	700
August	955	220	57	32	646
Sept	962	200	59	36	667
October	889	152	37	37	663
November	976	168	50	42	716
December	967	209	60	42	656
Year 2022					
January	1,082	215	79	39	750
February	934	182	65	38	648
March	1,019	173	80	27	739
April	936	155	72	20	690
May	956	146	67	22	721
June	969	175	57	37	700
July	1,003	223	48	42	691
August	991	207	57	41	686
Sept	921	190	43	40	649
October	970	172	48	37	713
November	970	175	55	39	700
December	1,052	217	48	42	745
Year to Date					
2020	10,402	1,635	715	401	7,651
2021	11,301	2,153	667	447	8,034
2022	11,805	2,229	720	424	8,432
Rolling 12 Months Ending in December					
2021	11,301	2,153	667	447	8,034
2022	11,805	2,229	720	424	8,432

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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	550,017	401,607	136,998	519	10,892
2020	445,753	326,987	108,840	473	9,453
2021	511,600	374,848	126,518	534	9,700
2022	480,584	350,574	119,364	508	10,138
Year 2020					
January	37,867	27,497	9,354	50	967
February	33,048	23,845	8,256	54	894
March	29,892	21,823	7,201	45	823
April	24,417	17,118	6,539	30	729
May	27,559	19,941	6,878	30	709
June	37,331	27,899	8,725	32	676
July	50,601	38,421	11,400	31	749
August	51,243	39,078	11,397	34	734
Sept	39,498	29,774	8,939	40	745
October	34,727	25,061	8,825	34	806
November	35,117	24,746	9,572	39	761
December	44,452	31,784	11,754	53	861
Year 2021					
January	46,122	33,381	11,814	52	874
February	48,815	36,381	11,557	65	811
March	35,365	25,817	8,698	50	801
April	30,852	22,591	7,465	39	758
May	36,448	27,108	8,543	31	767
June	48,810	36,328	11,674	34	774
July	57,256	42,314	14,060	35	845
August	57,086	42,612	13,644	40	791
Sept	45,253	33,753	10,637	43	820
October	36,462	25,833	9,783	46	800
November	33,695	23,627	9,152	50	865
December	35,436	25,103	9,490	49	795
Year 2022					
January	49,573	35,728	12,901	46	898
February	40,637	28,683	11,120	44	790
March	35,148	24,262	9,962	32	893
April	31,570	22,108	8,622	23	817
May	35,822	26,485	8,435	29	873
June	42,502	32,034	9,573	46	849
July	50,239	38,041	11,308	49	841
August	49,099	36,431	11,780	50	838
Sept	38,028	28,269	8,927	48	783
October	32,284	23,441	7,956	45	842
November	33,139	23,408	8,855	47	828
December	42,544	31,682	9,926	49	887
Year to Date					
2020	445,753	326,987	108,840	473	9,453
2021	511,600	374,848	126,518	534	9,700
2022	480,584	350,574	119,364	508	10,138
Rolling 12 Months Ending in December					
2021	511,600	374,848	126,518	534	9,700
2022	480,584	350,574	119,364	508	10,138

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	18,008	13,913	3,447	238	410
2021	21,634	16,850	4,102	250	432
2022	29,207	19,909	8,541	225	532
Year 2020					
January	1,741	1,438	244	23	37
February	1,446	1,146	243	13	45
March	1,292	962	280	17	33
April	1,169	878	235	13	44
May	1,323	1,015	254	22	31
June	1,536	1,189	293	20	34
July	1,700	1,296	345	25	33
August	1,648	1,285	314	24	25
Sept	1,405	1,106	250	23	26
October	1,580	1,257	272	17	34
November	1,461	1,116	290	21	34
December	1,708	1,225	427	21	35
Year 2021					
January	1,720	1,376	287	22	35
February	2,986	2,295	605	20	67
March	1,489	1,179	250	23	38
April	1,501	1,190	255	24	32
May	1,526	1,204	268	20	34
June	1,727	1,290	386	20	30
July	1,633	1,243	337	23	30
August	2,196	1,752	387	20	36
Sept	1,741	1,396	300	16	29
October	1,655	1,317	280	23	34
November	1,649	1,260	340	17	32
December	1,811	1,349	407	21	34
Year 2022					
January	5,018	2,418	2,526	31	43
February	1,810	1,283	477	14	37
March	1,705	1,326	329	13	37
April	1,383	1,110	228	15	30
May	1,575	1,297	218	26	34
June	1,676	1,320	303	19	34
July	1,877	1,411	411	20	36
August	1,866	1,386	429	19	33
Sept	1,788	1,438	298	12	40
October	1,826	1,460	321	12	33
November	1,703	1,391	271	11	30
December	6,978	4,069	2,731	33	144
Year to Date					
2020	18,008	13,913	3,447	238	410
2021	21,634	16,850	4,102	250	432
2022	29,207	19,909	8,541	225	532
Rolling 12 Months Ending in December					
2021	21,634	16,850	4,102	250	432
2022	29,207	19,909	8,541	225	532

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	1,730	59	179	269	1,223
2021	2,072	80	278	331	1,384
2022	2,545	123	368	459	1,595
Year 2020					
January	145	7	9	26	103
February	168	6	10	17	135
March	124	3	12	20	89
April	219	6	14	12	188
May	114	4	13	29	68
June	124	5	12	17	89
July	124	5	15	25	79
August	125	5	15	32	74
Sept	121	3	16	23	80
October	134	5	19	17	92
November	154	5	19	25	106
December	178	6	26	27	119
Year 2021					
January	231	4	25	34	168
February	317	26	59	51	182
March	189	5	22	33	129
April	151	5	20	28	97
May	137	3	16	28	90
June	120	4	13	19	83
July	135	3	18	25	89
August	150	5	19	21	105
Sept	135	6	15	17	96
October	174	7	19	25	124
November	161	5	27	20	108
December	173	6	24	30	112
Year 2022					
January	365	29	61	91	183
February	208	14	15	29	149
March	187	7	26	33	121
April	150	5	19	26	100
May	153	6	20	27	99
June	150	5	21	19	105
July	200	7	26	39	129
August	147	6	27	30	84
Sept	157	7	28	11	111
October	169	8	32	14	116
November	166	6	33	14	113
December	493	23	58	125	287
Year to Date					
2020	1,730	59	179	269	1,223
2021	2,072	80	278	331	1,384
2022	2,545	123	368	459	1,595
Rolling 12 Months Ending in December					
2021	2,072	80	278	331	1,384
2022	2,545	123	368	459	1,595

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	19,738	13,972	3,626	507	1,633
2021	23,706	16,929	4,380	580	1,816
2022	31,751	20,032	8,909	684	2,127
Year 2020					
January	1,886	1,445	253	49	140
February	1,614	1,151	252	30	180
March	1,416	965	292	37	122
April	1,388	883	249	24	232
May	1,437	1,019	267	52	99
June	1,660	1,194	306	37	123
July	1,824	1,301	360	50	113
August	1,773	1,290	329	55	99
Sept	1,526	1,109	266	46	106
October	1,714	1,263	291	34	126
November	1,616	1,121	309	46	140
December	1,886	1,231	453	48	154
Year 2021					
January	1,952	1,380	312	56	203
February	3,303	2,320	663	71	249
March	1,678	1,183	272	56	167
April	1,652	1,195	276	52	129
May	1,663	1,207	284	48	124
June	1,846	1,295	399	39	114
July	1,768	1,246	356	47	119
August	2,346	1,757	406	41	142
Sept	1,877	1,402	316	34	125
October	1,828	1,323	299	48	158
November	1,809	1,266	367	37	140
December	1,984	1,355	431	51	147
Year 2022					
January	5,383	2,448	2,587	123	226
February	2,018	1,297	492	43	185
March	1,892	1,333	355	46	158
April	1,534	1,115	247	41	130
May	1,728	1,304	238	53	133
June	1,826	1,326	324	38	138
July	2,077	1,417	436	59	164
August	2,014	1,391	456	49	117
Sept	1,945	1,446	326	22	151
October	1,996	1,467	353	27	149
November	1,869	1,397	303	26	143
December	7,470	4,091	2,790	158	431
Year to Date					
2020	19,738	13,972	3,626	507	1,633
2021	23,706	16,929	4,380	580	1,816
2022	31,751	20,032	8,909	684	2,127
Rolling 12 Months Ending in December					
2021	23,706	16,929	4,380	580	1,816
2022	31,751	20,032	8,909	684	2,127

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	3,077	2,260	658	1	158
2021	3,070	2,323	618	1	127
2022	2,887	2,271	490	3	123
Year 2020					
January	257	204	38	0	15
February	217	147	58	0	12
March	285	210	63	0	13
April	245	179	57	0	9
May	256	183	59	0	14
June	323	258	52	0	13
July	332	261	58	0	13
August	308	236	57	0	14
Sept	175	116	46	0	13
October	155	82	59	0	14
November	226	157	55	0	14
December	297	227	56	0	14
Year 2021					
January	282	211	59	0	12
February	274	223	41	0	9
March	260	203	44	0	12
April	173	107	56	0	10
May	220	148	59	0	12
June	195	148	37	0	11
July	278	219	48	0	10
August	299	238	52	0	9
Sept	255	190	56	0	9
October	262	202	49	0	10
November	325	256	57	0	11
December	247	178	58	0	10
Year 2022					
January	220	166	44	0	10
February	238	180	47	0	12
March	193	143	41	0	9
April	205	156	40	0	9
May	271	212	47	0	12
June	268	224	34	0	9
July	209	177	NM	0	10
August	231	178	42	0	11
Sept	262	210	42	0	10
October	240	192	38	0	10
November	242	178	52	0	12
December	307	254	43	0	9
Year to Date					
2020	3,077	2,260	658	1	158
2021	3,070	2,323	618	1	127
2022	2,887	2,271	490	3	123
Rolling 12 Months Ending in December					
2021	3,070	2,323	618	1	127
2022	2,887	2,271	NM	3	123

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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
2020	780	16	124		3	637
2021	760	21	113		6	621
2022	734	23	121		13	577
Year 2020						
January	74	1	11		2	60
February	56	1	12		1	41
March	46	1	11		0	34
April	39	3	9		0	26
May	62	3	10		0	49
June	73	1	9		0	64
July	73	1	10		0	63
August	75	1	11		0	63
Sept	72	1	12		0	60
October	67	0	9		0	57
November	67	2	9		0	56
December	76	1	11		0	65
Year 2021						
January	74	1	15		0	58
February	65	1	10		1	52
March	67	0	11		0	55
April	62	0	10		0	52
May	68	0	9		0	59
June	59	1	9		0	49
July	63	1	10		0	52
August	61	7	9		0	45
Sept	62	1	9		0	52
October	58	1	5		1	51
November	57	2	8		2	46
December	65	4	9		2	50
Year 2022						
January	55	2	10		2	42
February	63	8	8		2	45
March	73	1	23		2	47
April	58	0	11		1	45
May	70	1	10		2	56
June	55	1	9		2	43
July	50	1	NM		1	46
August	72	1	11		0	60
Sept	49	1	8		0	40
October	64	1	12		0	51
November	70	6	8		1	56
December	56	0	9		1	46
Year to Date						
2020	780	16	124		3	637
2021	760	21	113		6	621
2022	734	23	121		13	577
Rolling 12 Months Ending in December						
2021	760	21	113		6	621
2022	734	23	NM		13	577

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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
2020	3,856	2,276	782		4	795
2021	3,830	2,344	731		7	748
2022	3,620	2,294	610		16	699
Year 2020						
January	331	205	49		2	75
February	273	148	70		1	53
March	331	211	74		0	46
April	284	182	67		0	35
May	318	187	69		0	63
June	396	258	61		0	78
July	405	261	68		0	76
August	384	237	69		0	77
Sept	247	117	58		0	73
October	222	83	68		0	70
November	293	159	64		0	70
December	373	228	67		0	78
Year 2021						
January	356	212	74		0	69
February	339	224	51		1	62
March	326	204	55		0	67
April	235	107	66		0	63
May	288	148	68		0	71
June	254	149	46		0	59
July	341	220	58		0	62
August	360	245	61		0	54
Sept	317	190	65		0	62
October	321	204	54		1	62
November	382	258	65		2	57
December	311	183	67		2	60
Year 2022						
January	275	168	54		2	52
February	301	188	54		2	57
March	266	144	64		2	56
April	263	156	51		2	54
May	341	214	57		2	68
June	322	225	43		2	52
July	259	178	NM		1	57
August	303	179	53		0	71
Sept	311	211	50		0	50
October	304	193	50		0	61
November	313	184	60		1	68
December	362	255	51		2	55
Year to Date						
2020	3,856	2,276	782		4	795
2021	3,830	2,344	731		7	748
2022	3,620	2,294	610		16	699
Rolling 12 Months Ending in December						
2021	3,830	2,344	731		7	748
2022	3,620	2,294	NM		16	699

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

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Values for 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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	10,842,129	5,560,267	4,663,935	52,650	565,276
2019	11,612,858	5,980,679	4,958,798	55,575	617,805
2020	11,928,104	6,196,152	5,061,569	51,827	618,556
2021	11,503,839	5,876,442	4,996,517	45,536	585,344
2022	12,384,883	6,342,093	5,411,303	44,868	586,618
Year 2020					
January	976,483	504,731	411,105	4,616	56,032
February	917,866	478,737	383,490	4,211	51,428
March	915,706	486,128	373,112	3,944	52,521
April	799,298	428,329	320,603	3,491	46,874
May	858,837	465,031	342,427	3,664	47,715
June	1,065,962	559,710	450,418	4,366	51,468
July	1,372,851	704,273	607,755	5,434	55,389
August	1,302,728	665,889	576,428	5,247	55,165
Sept	1,038,152	525,453	459,392	4,433	48,874
October	971,619	502,114	416,665	4,222	48,618
November	796,405	407,055	336,578	3,818	48,953
December	912,197	468,702	383,595	4,381	55,518
Year 2021					
January	889,328	451,377	380,904	3,963	53,084
February	801,334	404,132	351,952	3,475	41,775
March	760,939	396,874	315,896	3,483	44,686
April	779,169	408,210	324,185	2,985	43,789
May	834,557	433,323	352,342	3,101	45,791
June	1,111,189	575,818	481,523	3,987	49,861
July	1,267,045	654,378	553,520	4,490	54,657
August	1,288,925	657,226	573,094	4,712	53,891
Sept	1,011,076	508,790	450,940	4,075	47,271
October	962,806	474,461	436,157	3,768	48,420
November	892,515	451,592	387,287	3,668	49,969
December	904,955	460,260	388,717	3,828	52,149
Year 2022					
January	984,417	502,319	425,211	3,966	52,921
February	835,266	417,171	367,916	3,541	46,637
March	802,623	404,905	344,167	3,668	49,883
April	770,444	391,392	330,734	3,415	44,903
May	946,936	485,519	410,994	3,450	46,973
June	1,165,982	616,026	499,061	3,575	47,320
July	1,420,388	743,295	621,241	4,222	51,629
August	1,398,719	718,694	623,480	4,330	52,215
Sept	1,143,581	575,956	516,443	3,877	47,305
October	972,617	491,142	430,353	3,341	47,781
November	927,594	476,124	398,628	3,507	49,335
December	1,016,315	519,550	443,074	3,976	49,716
Year to Date					
2020	11,928,104	6,196,152	5,061,569	51,827	618,556
2021	11,503,839	5,876,442	4,996,517	45,536	585,344
2022	12,384,883	6,342,093	5,411,303	44,868	586,618
Rolling 12 Months Ending in December					
2021	11,503,839	5,876,442	4,996,517	45,536	585,344
2022	12,384,883	6,342,093	5,411,303	44,868	586,618

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.

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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, 2012-December 2022 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	1,292,624	47,025	326,976	78,844	839,778
2021	1,222,267	49,103	308,223	71,093	793,848
2022	1,206,012	51,514	313,065	68,143	773,290
Year 2020					
January	129,482	4,242	28,854	7,419	88,968
February	118,342	3,980	26,837	6,952	80,572
March	118,437	4,270	27,273	6,437	80,457
April	110,653	3,892	24,979	5,617	76,165
May	96,238	3,816	25,835	5,410	61,178
June	98,513	3,863	27,110	6,221	61,318
July	107,695	4,465	29,304	7,589	66,337
August	106,062	4,198	29,533	7,184	65,147
Sept	97,666	3,544	27,518	6,366	60,238
October	102,031	3,214	26,299	6,455	66,063
November	97,482	3,022	25,404	6,268	62,788
December	110,021	4,518	28,032	6,926	70,546
Year 2021					
January	111,467	4,510	27,691	6,922	72,344
February	94,906	4,137	24,326	6,195	60,249
March	99,171	3,987	24,875	5,970	64,339
April	97,170	3,686	25,289	4,965	63,229
May	97,010	3,481	24,595	4,875	64,059
June	101,830	4,490	25,251	5,711	66,378
July	106,945	4,447	26,238	6,334	69,926
August	106,859	4,617	27,372	6,749	68,121
Sept	97,826	3,921	24,871	5,631	63,403
October	99,445	3,156	25,485	5,702	65,102
November	102,482	4,273	25,885	5,798	66,526
December	107,155	4,397	26,346	6,241	70,171
Year 2022					
January	113,177	4,751	28,988	6,969	72,469
February	99,788	3,963	25,617	6,118	64,091
March	104,859	3,792	26,380	6,122	68,564
April	94,357	3,140	23,069	5,540	62,608
May	95,573	3,993	24,966	5,205	61,409
June	96,359	4,439	26,375	5,109	60,436
July	103,216	5,488	29,989	5,571	62,167
August	102,978	5,338	27,741	5,735	64,163
Sept	95,359	4,259	25,034	5,120	60,946
October	96,194	3,746	24,428	5,082	62,937
November	98,967	4,089	24,270	5,365	65,242
December	105,185	4,515	26,207	6,207	68,256
Year to Date					
2020	1,292,624	47,025	326,976	78,844	839,778
2021	1,222,267	49,103	308,223	71,093	793,848
2022	1,206,012	51,514	313,065	68,143	773,290
Rolling 12 Months Ending in December					
2021	1,222,267	49,103	308,223	71,093	793,848
2022	1,206,012	51,514	313,065	68,143	773,290

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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	12,048,091	5,603,423	4,995,888	134,507	1,314,273
2019	12,808,883	6,023,324	5,276,029	135,310	1,374,220
2020	13,220,728	6,243,178	5,388,546	130,671	1,458,334
2021	12,726,106	5,925,545	5,304,740	116,628	1,379,192
2022	13,590,895	6,393,607	5,724,368	113,012	1,359,908
Year 2020					
January	1,105,965	508,973	439,958	12,034	145,000
February	1,036,208	482,717	410,328	11,163	132,001
March	1,034,143	490,399	400,385	10,381	132,978
April	909,952	432,222	345,582	9,108	123,040
May	955,075	468,847	368,261	9,074	108,893
June	1,164,475	563,573	477,528	10,587	112,787
July	1,480,547	708,738	637,059	13,023	121,727
August	1,408,790	670,087	605,961	12,431	120,311
Sept	1,135,818	528,997	486,910	10,799	109,112
October	1,073,650	505,328	442,965	10,677	114,681
November	893,886	410,077	361,982	10,086	111,741
December	1,022,219	473,220	411,627	11,308	126,064
Year 2021					
January	1,000,795	455,887	408,595	10,885	125,428
February	896,240	408,270	376,278	9,669	102,023
March	860,111	400,861	340,771	9,453	109,025
April	876,339	411,897	349,474	7,950	107,019
May	931,567	436,804	376,936	7,976	109,851
June	1,213,019	580,307	506,774	9,698	116,240
July	1,373,990	658,825	579,758	10,824	124,583
August	1,395,784	661,843	600,467	11,461	122,013
Sept	1,108,902	512,711	475,811	9,706	110,674
October	1,062,252	477,617	461,642	9,471	113,522
November	994,997	455,865	413,171	9,466	116,495
December	1,012,109	464,658	415,062	10,069	122,320
Year 2022					
January	1,097,594	507,070	454,199	10,934	125,390
February	935,055	421,134	393,533	9,660	110,728
March	907,482	408,697	370,548	9,790	118,447
April	864,800	394,532	353,802	8,956	107,510
May	1,042,509	489,511	435,960	8,655	108,382
June	1,262,342	620,465	525,437	8,684	107,756
July	1,523,604	748,783	651,230	9,793	113,797
August	1,501,697	724,032	651,222	10,065	116,378
Sept	1,238,941	580,215	541,477	8,996	108,252
October	1,068,810	494,888	454,781	8,423	110,718
November	1,026,561	480,213	422,898	8,872	114,577
December	1,121,500	524,065	469,280	10,182	117,972
Year to Date					
2020	13,220,728	6,243,178	5,388,546	130,671	1,458,334
2021	12,726,106	5,925,545	5,304,740	116,628	1,379,192
2022	13,590,895	6,393,607	5,724,368	113,012	1,359,908
Rolling 12 Months Ending in December					
2021	12,726,106	5,925,545	5,304,740	116,628	1,379,192
2022	13,590,895	6,393,607	5,724,368	113,012	1,359,908

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

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

Values for 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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
2020	252,501	23,571	208,196		18,136	2,597
2021	231,876	22,831	190,031		16,472	2,542
2022	212,574	20,879	173,813		15,753	2,130
Year 2020						
January	22,731	1,990	18,938		1,537	267
February	21,038	1,879	17,436		1,476	247
March	22,584	2,089	18,650		1,595	250
April	21,604	2,037	17,837		1,504	226
May	21,856	2,046	18,033		1,575	203
June	20,106	1,892	16,567		1,449	198
July	20,832	1,966	17,074		1,582	210
August	21,086	1,959	17,368		1,563	196
Sept	20,174	1,864	16,589		1,535	185
October	20,164	1,979	16,617		1,385	182
November	19,682	1,892	16,114		1,474	203
December	20,645	1,981	16,973		1,461	231
Year 2021						
January	21,051	2,121	17,209		1,469	252
February	18,681	1,812	15,289		1,324	254
March	20,782	1,976	17,070		1,446	291
April	19,174	1,885	15,713		1,319	258
May	19,935	1,982	16,398		1,327	229
June	19,143	1,893	15,658		1,381	210
July	19,628	1,946	16,084		1,396	203
August	19,148	1,917	15,679		1,374	178
Sept	18,571	1,841	15,217		1,365	148
October	18,409	1,732	15,133		1,383	161
November	17,677	1,746	14,414		1,352	165
December	19,678	1,981	16,167		1,337	193
Year 2022						
January	18,767	1,810	15,353		1,430	174
February	17,388	1,688	14,238		1,303	160
March	19,222	1,911	15,663		1,471	177
April	16,872	1,672	14,046		1,010	144
May	18,611	1,874	15,291		1,264	181
June	18,288	1,828	15,015		1,259	186
July	18,197	1,802	14,863		1,352	181
August	17,542	1,722	14,348		1,285	187
Sept	16,956	1,619	13,920		1,245	172
October	17,852	1,722	14,577		1,367	187
November	16,905	1,676	13,717		1,335	177
December	15,974	1,555	12,781		1,432	205
Year to Date						
2020	252,501	23,571	208,196		18,136	2,597
2021	231,876	22,831	190,031		16,472	2,542
2022	212,574	20,879	173,813		15,753	2,130
Rolling 12 Months Ending in December						
2021	231,876	22,831	190,031		16,472	2,542
2022	212,574	20,879	173,813		15,753	2,130

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

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

Values for 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	4,011	3	2,187	820	1,000
2021	4,030	6	2,155	741	1,129
2022	4,621	5	2,547	817	1,253
Year 2020					
January	343	0	211	36	95
February	352	0	196	65	91
March	331	0	167	73	91
April	270	0	111	70	89
May	324	0	188	54	83
June	322	0	177	65	80
July	352	0	197	76	79
August	347	0	196	74	76
Sept	345	0	197	74	74
October	372	0	195	106	72
November	309	0	167	61	81
December	343	0	186	67	90
Year 2021					
January	376	1	192	73	111
February	332	0	168	55	109
March	388	1	196	72	120
April	355	0	186	48	120
May	292	0	121	59	111
June	339	1	192	47	99
July	283	0	139	65	78
August	340	0	209	57	73
Sept	332	0	197	70	63
October	312	0	190	56	65
November	279	0	137	66	76
December	403	0	227	73	102
Year 2022					
January	462	0	267	81	114
February	435	0	257	69	109
March	540	1	320	78	141
April	355	0	202	70	82
May	278	0	135	51	92
June	338	0	184	65	88
July	353	0	190	66	97
August	337	0	172	74	91
Sept	339	0	171	76	92
October	368	0	196	69	103
November	389	0	206	64	119
December	427	0	247	55	125
Year to Date					
2020	4,011	3	2,187	820	1,000
2021	4,030	6	2,155	741	1,129
2022	4,621	5	2,547	817	1,253
Rolling 12 Months Ending in December					
2021	4,030	6	2,155	741	1,129
2022	4,621	5	2,547	817	1,253

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	256,512	23,575	210,383	18,956	3,598
2021	235,906	22,836	192,186	17,212	3,671
2022	217,195	20,883	176,360	16,570	3,383
Year 2020					
January	23,074	1,990	19,149	1,573	362
February	21,390	1,879	17,632	1,541	338
March	22,915	2,089	18,817	1,667	342
April	21,874	2,037	17,948	1,574	315
May	22,181	2,046	18,221	1,628	286
June	20,428	1,892	16,743	1,515	278
July	21,184	1,966	17,271	1,659	289
August	21,433	1,959	17,564	1,637	272
Sept	20,519	1,864	16,786	1,609	259
October	20,536	1,979	16,812	1,491	254
November	19,991	1,892	16,281	1,534	284
December	20,988	1,981	17,159	1,528	320
Year 2021					
January	21,427	2,121	17,401	1,541	363
February	19,013	1,813	15,457	1,379	363
March	21,170	1,976	17,266	1,518	411
April	19,529	1,885	15,899	1,367	377
May	20,227	1,982	16,518	1,386	340
June	19,482	1,894	15,851	1,427	310
July	19,911	1,946	16,223	1,461	281
August	19,488	1,917	15,888	1,431	251
Sept	18,903	1,842	15,414	1,435	212
October	18,720	1,732	15,323	1,439	226
November	17,956	1,746	14,551	1,418	241
December	20,082	1,981	16,395	1,410	296
Year 2022					
January	19,228	1,810	15,620	1,511	288
February	17,823	1,688	14,495	1,371	269
March	19,762	1,912	15,983	1,549	318
April	17,227	1,672	14,248	1,081	226
May	18,889	1,874	15,426	1,315	273
June	18,626	1,828	15,199	1,324	274
July	18,550	1,803	15,053	1,417	277
August	17,879	1,722	14,520	1,359	278
Sept	17,295	1,620	14,091	1,321	264
October	18,220	1,722	14,773	1,435	290
November	17,294	1,677	13,924	1,398	296
December	16,401	1,555	13,029	1,487	330
Year to Date					
2020	256,512	23,575	210,383	18,956	3,598
2021	235,906	22,836	192,186	17,212	3,671
2022	217,195	20,883	176,360	16,570	3,383
Rolling 12 Months Ending in December					
2021	235,906	22,836	192,186	17,212	3,671
2022	217,195	20,883	176,360	16,570	3,383

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

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Values for 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	15,516	280	12,975	2,251	10
2021	15,223	252	12,442	2,521	7
2022	14,497	274	11,865	2,357	1
Year 2020					
January	1,323	19	1,107	196	1
February	1,204	14	1,014	175	1
March	1,331	26	1,109	195	1
April	1,266	25	1,061	179	1
May	1,312	24	1,094	192	1
June	1,222	25	1,010	187	1
July	1,355	26	1,130	199	1
August	1,380	26	1,160	194	1
Sept	1,274	23	1,072	179	1
October	1,259	24	1,052	183	1
November	1,255	24	1,046	184	1
December	1,334	22	1,121	190	1
Year 2021					
January	1,270	20	1,035	214	1
February	1,122	10	937	176	0
March	1,274	17	1,055	202	0
April	1,238	23	1,004	211	0
May	1,245	24	1,018	203	1
June	1,300	26	1,063	211	1
July	1,361	9	1,121	230	1
August	1,350	27	1,093	230	1
Sept	1,303	23	1,060	219	1
October	1,248	23	1,029	196	1
November	1,216	27	977	212	1
December	1,295	24	1,051	219	0
Year 2022					
January	1,204	22	994	188	0
February	1,109	20	915	173	0
March	1,205	17	987	201	0
April	1,197	23	967	206	0
May	1,218	28	992	197	0
June	1,242	25	1,004	212	0
July	1,265	25	1,039	201	0
August	1,239	28	1,016	196	0
Sept	1,191	18	982	191	0
October	1,204	24	980	200	0
November	1,206	23	978	204	0
December	1,218	21	1,009	187	0
Year to Date					
2020	15,516	280	12,975	2,251	10
2021	15,223	252	12,442	2,521	7
2022	14,497	274	11,865	2,357	1
Rolling 12 Months Ending in December					
2021	15,223	252	12,442	2,521	7
2022	14,497	274	11,865	2,357	1

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

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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.

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Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	1,650	0	757	705	188
2021	1,712	0	873	666	173
2022	1,551	0	824	587	140
Year 2020					
January	146	0	73	59	13
February	139	0	69	53	16
March	138	0	62	61	15
April	139	0	61	61	16
May	148	0	67	65	16
June	131	0	67	51	13
July	135	0	59	62	15
August	149	0	64	64	21
Sept	122	0	51	55	15
October	132	0	60	57	14
November	129	0	57	57	16
December	141	0	67	58	16
Year 2021					
January	155	0	75	63	17
February	121	0	70	45	6
March	142	0	71	57	14
April	130	0	57	56	18
May	139	0	71	54	13
June	139	0	71	51	16
July	154	0	75	63	16
August	154	0	76	62	17
Sept	146	0	71	60	15
October	139	0	71	54	15
November	137	0	80	44	13
December	154	0	85	57	13
Year 2022					
January	140	0	74	56	10
February	123	0	66	51	6
March	121	0	63	51	7
April	118	0	66	42	9
May	134	0	74	49	11
June	132	0	71	48	14
July	140	0	75	51	15
August	142	0	71	56	15
Sept	128	0	68	51	10
October	119	0	59	46	14
November	132	0	68	49	14
December	121	0	71	37	14
Year to Date					
2020	1,650	0	757	705	188
2021	1,712	0	873	666	173
2022	1,551	0	824	587	140
Rolling 12 Months Ending in December					
2021	1,712	0	873	666	173
2022	1,551	0	824	587	140

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

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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, 2012-December 2022 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	17,166	280	13,732	2,956	198
2021	16,934	252	13,315	3,187	180
2022	16,048	274	12,690	2,944	141
Year 2020					
January	1,469	19	1,180	256	14
February	1,342	14	1,083	228	17
March	1,469	26	1,171	256	16
April	1,405	25	1,122	241	17
May	1,459	24	1,161	257	17
June	1,353	25	1,077	238	14
July	1,491	26	1,188	261	16
August	1,530	26	1,224	258	22
Sept	1,397	23	1,123	234	16
October	1,391	24	1,112	240	15
November	1,384	24	1,102	241	16
December	1,475	22	1,188	248	17
Year 2021					
January	1,425	20	1,110	277	17
February	1,243	10	1,007	221	6
March	1,415	17	1,126	259	14
April	1,369	23	1,061	267	18
May	1,384	24	1,089	257	14
June	1,439	26	1,134	262	17
July	1,515	9	1,196	294	16
August	1,504	27	1,168	292	18
Sept	1,449	23	1,130	279	16
October	1,388	23	1,099	249	16
November	1,353	27	1,056	256	14
December	1,449	24	1,136	276	13
Year 2022					
January	1,344	22	1,068	244	10
February	1,232	20	981	224	6
March	1,327	17	1,051	252	7
April	1,314	23	1,034	248	9
May	1,351	28	1,066	246	11
June	1,374	25	1,075	260	14
July	1,405	25	1,113	252	15
August	1,381	28	1,086	252	15
Sept	1,319	18	1,049	242	10
October	1,324	24	1,039	246	14
November	1,337	23	1,046	253	14
December	1,339	21	1,080	224	14
Year to Date					
2020	17,166	280	13,732	2,956	198
2021	16,934	252	13,315	3,187	180
2022	16,048	274	12,690	2,944	141
Rolling 12 Months Ending in December					
2021	16,934	252	13,315	3,187	180
2022	16,048	274	12,690	2,944	141

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	318,381	31,606	125,695	608	160,472
2021	328,253	41,868	129,554	998	155,833
2022	322,124	45,492	126,076	1,154	149,403
Year 2020					
January	29,263	3,341	11,363	49	14,510
February	27,502	3,095	10,658	41	13,708
March	27,511	2,644	10,423	32	14,412
April	23,851	1,872	8,674	8	13,298
May	25,105	1,918	9,789	30	13,367
June	24,647	2,209	9,540	54	12,844
July	27,217	3,084	10,984	89	13,060
August	28,930	3,838	11,730	90	13,272
Sept	25,307	2,138	10,529	45	12,595
October	24,776	2,099	9,962	58	12,656
November	26,008	2,737	10,309	49	12,913
December	28,265	2,629	11,734	64	13,838
Year 2021					
January	29,254	3,269	12,084	64	13,836
February	26,391	3,483	11,297	95	11,516
March	27,443	3,036	11,103	55	13,247
April	24,196	2,702	8,785	56	12,654
May	26,614	3,087	10,162	44	13,321
June	27,589	3,594	10,874	96	13,026
July	30,352	5,009	11,638	118	13,587
August	29,979	4,653	11,800	108	13,418
Sept	27,359	3,659	10,765	97	12,838
October	25,444	2,696	9,910	79	12,760
November	25,753	2,681	10,495	75	12,501
December	27,880	4,000	10,641	110	13,129
Year 2022					
January	27,078	3,652	10,262	105	13,059
February	27,785	4,156	11,626	97	11,906
March	26,589	3,299	10,808	74	12,409
April	22,971	2,362	8,363	77	12,169
May	26,452	3,738	9,780	110	12,823
June	28,728	4,128	11,287	129	13,184
July	31,073	5,111	12,150	119	13,692
August	30,081	5,040	11,590	171	13,281
Sept	25,576	3,849	10,353	81	11,293
October	23,175	3,066	9,366	42	10,701
November	25,467	2,936	9,994	72	12,465
December	27,149	4,155	10,497	77	12,420
Year to Date					
2020	318,381	31,606	125,695	608	160,472
2021	328,253	41,868	129,554	998	155,833
2022	322,124	45,492	126,076	1,154	149,403
Rolling 12 Months Ending in December					
2021	328,253	41,868	129,555	998	155,833
2022	322,124	45,492	126,076	1,154	149,403

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	860,062	3,051	25,022	3,595	828,394
2021	870,986	3,520	21,804	2,958	842,704
2022	793,273	3,437	25,048	3,158	761,630
Year 2020					
January	77,620	368	2,309	483	74,460
February	73,345	368	2,284	453	70,240
March	75,205	368	2,277	353	72,207
April	70,552	262	1,929	238	68,122
May	72,051	123	2,109	321	69,497
June	67,936	155	2,099	394	65,288
July	68,586	179	2,086	250	66,072
August	69,298	167	1,994	244	66,893
Sept	67,269	208	1,902	166	64,993
October	70,984	362	1,726	191	68,704
November	71,706	328	2,103	233	69,042
December	75,513	165	2,205	269	72,875
Year 2021					
January	75,180	377	2,146	229	72,427
February	66,581	341	1,876	315	64,049
March	72,900	336	1,945	227	70,391
April	72,574	312	1,696	153	70,412
May	73,777	208	1,349	125	72,095
June	71,452	268	1,956	276	68,952
July	75,597	390	1,840	300	73,068
August	74,458	304	1,955	316	71,882
Sept	71,697	17	1,817	308	69,555
October	71,228	177	1,507	213	69,330
November	69,883	378	1,922	207	67,376
December	75,661	411	1,794	290	73,166
Year 2022					
January	70,001	238	2,376	282	67,105
February	63,947	298	1,922	281	61,446
March	64,595	339	2,006	228	62,022
April	64,979	244	1,886	171	62,678
May	68,773	264	2,026	274	66,209
June	67,604	281	2,059	367	64,898
July	69,472	331	2,013	327	66,801
August	68,887	327	2,104	375	66,081
Sept	60,849	289	2,259	199	58,102
October	62,755	242	2,080	149	60,284
November	65,062	292	2,104	250	62,416
December	66,350	293	2,211	256	63,590
Year to Date					
2020	860,062	3,051	25,022	3,595	828,394
2021	870,986	3,520	21,804	2,958	842,704
2022	793,273	3,437	25,048	3,158	761,630
Rolling 12 Months Ending in December					
2021	870,986	3,520	21,804	2,958	842,704
2022	793,273	3,437	25,048	3,158	761,630

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 2021 and prior years are final. Values for 2022 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, 2012-December 2022 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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
2020	1,178,443	34,657	150,717	4,203	988,866
2021	1,199,240	45,387	151,359	3,957	998,537
2022	1,115,397	48,929	151,124	4,312	911,033
Year 2020					
January	106,883	3,709	13,672	532	88,970
February	100,847	3,462	12,942	495	83,948
March	102,716	3,012	12,700	385	86,619
April	94,403	2,134	10,603	246	81,420
May	97,155	2,041	11,899	351	82,864
June	92,583	2,364	11,640	448	78,132
July	95,803	3,263	13,069	339	79,132
August	98,227	4,005	13,723	334	80,165
Sept	92,575	2,346	12,430	210	77,589
October	95,760	2,462	11,688	249	81,361
November	97,713	3,064	12,412	282	81,955
December	103,779	2,794	13,939	333	86,713
Year 2021					
January	104,434	3,646	14,231	294	86,264
February	92,972	3,824	13,173	410	75,565
March	100,342	3,373	13,049	282	83,639
April	96,770	3,014	10,481	210	83,066
May	100,391	3,295	11,512	169	85,416
June	99,041	3,862	12,830	372	81,978
July	105,948	5,398	13,478	418	86,655
August	104,437	4,958	13,755	424	85,300
Sept	99,055	3,676	12,582	404	82,393
October	96,672	2,873	11,417	292	82,090
November	95,636	3,059	12,417	282	79,878
December	103,541	4,411	12,434	400	86,295
Year 2022					
January	97,079	3,890	12,638	387	80,164
February	91,732	4,454	13,548	378	73,352
March	91,184	3,637	12,815	302	74,430
April	87,950	2,606	10,249	248	74,847
May	95,225	4,002	11,806	384	79,032
June	96,332	4,409	13,345	495	78,082
July	100,545	5,442	14,163	446	80,494
August	98,968	5,367	13,695	545	79,362
Sept	86,425	4,138	12,612	280	69,395
October	85,930	3,308	11,446	191	70,985
November	90,529	3,229	12,098	322	74,881
December	93,499	4,447	12,709	334	76,009
Year to Date					
2020	1,178,443	34,657	150,717	4,203	988,866
2021	1,199,240	45,387	151,359	3,957	998,537
2022	1,115,397	48,929	151,124	4,312	911,033
Rolling 12 Months Ending in December					
2021	1,199,240	45,387	151,359	3,957	998,537
2022	1,115,397	48,929	151,124	4,312	911,033

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 2021 and prior years are final. Values for 2022 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,
December 2022 and December 2021 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	16	9	89.0%	0	0	16	9	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	-14.0%	0	0	1	1	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	15	7	109.0%	0	0	15	7	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	1,206	1,084	11.0%	0	0	1,205	1,083	0	0	2	1
New Jersey	0	36	-100.0%	0	0	0	36	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	1,206	1,048	15.0%	0	0	1,205	1,047	0	0	2	1
East North Central	9,103	7,450	22.0%	5,704	4,397	3,364	3,017	1	0	35	36
Illinois	2,156	1,853	16.0%	102	97	2,024	1,728	0	0	29	27
Indiana	2,902	1,802	61.0%	2,710	1,627	192	174	0	0	0	0
Michigan	1,543	1,691	-8.8%	1,529	1,676	14	15	0	0	0	0
Ohio	1,397	1,212	15.0%	263	113	1,134	1,099	0	0	0	0
Wisconsin	1,104	891	24.0%	1,099	883	0	0	0	0	5	9
West North Central	8,644	7,647	13.0%	8,570	7,575	0	0	2	2	73	71
Iowa	1,116	652	71.0%	1,075	610	0	0	2	1	39	41
Kansas	1,137	1,027	11.0%	1,137	1,027	0	0	0	0	0	0
Minnesota	998	795	26.0%	994	792	0	0	0	0	4	3
Missouri	2,510	2,428	3.4%	2,510	2,428	0	0	0	0	0	0
Nebraska	1,014	962	5.5%	988	939	0	0	0	0	26	23
North Dakota	1,869	1,693	10.0%	1,866	1,689	0	0	0	0	3	4
South Dakota	0	89	-100.0%	0	89	0	0	0	0	0	0
South Atlantic	5,468	3,340	64.0%	4,844	2,662	612	667	1	0	11	11
Delaware	1	4	-67.0%	0	0	1	4	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	683	290	136.0%	682	289	0	0	0	0	NM	1
Georgia	896	287	212.0%	892	284	0	0	0	0	NM	3
Maryland	152	94	62.0%	0	0	152	94	0	0	0	0
North Carolina	853	207	312.0%	849	204	0	0	1	0	3	3
South Carolina	652	304	114.0%	647	300	4	4	0	0	1	0
Virginia	230	46	402.0%	226	42	0	0	0	0	4	4
West Virginia	2,001	2,108	-5.1%	1,547	1,543	455	566	0	0	0	0
East South Central	4,246	3,396	25.0%	3,937	3,139	303	251	0	0	6	6
Alabama	1,269	1,102	15.0%	1,268	1,102	0	0	0	0	NM	0
Kentucky	2,050	1,474	39.0%	2,050	1,474	0	0	0	0	0	0
Mississippi	428	381	12.0%	125	131	303	251	0	0	0	0
Tennessee	499	439	14.0%	494	433	0	0	0	0	5	6
West South Central	6,605	5,501	20.0%	3,250	2,011	3,353	3,489	0	0	1	1
Arkansas	933	454	106.0%	767	288	165	165	0	0	0	1
Louisiana	351	135	160.0%	250	35	101	100	0	0	0	0
Oklahoma	499	416	20.0%	499	416	0	0	0	0	1	0
Texas	4,822	4,497	7.2%	1,735	1,273	3,087	3,224	0	0	0	0
Mountain	5,910	5,846	1.1%	5,118	5,063	783	774	0	0	9	8
Arizona	806	652	24.0%	806	652	0	0	0	0	0	0
Colorado	1,172	1,121	4.6%	1,172	1,121	0	0	0	0	0	0
Idaho	NM	0	NM	0	0	0	0	0	0	NM	0
Montana	647	641	0.8%	0	0	646	641	0	0	1	1
Nevada	119	137	-13.0%	61	65	58	72	0	0	0	0
New Mexico	527	741	-29.0%	527	741	0	0	0	0	0	0
Utah	999	948	5.4%	964	909	35	39	0	0	0	0
Wyoming	1,640	1,605	2.1%	1,587	1,576	44	22	0	0	8	7
Pacific Contiguous	233	88	164.0%	0	0	227	83	0	0	5	5
California	5	4	0.9%	0	0	0	0	0	0	5	4
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	228	84	172.0%	0	0	227	83	0	0	1	1
Pacific Noncontiguous	60	109	-45.0%	NM	46	NM	59	4	4	0	0
Alaska	60	61	-1.8%	NM	46	NM	11	4	4	0	0
Hawaii	0	48	-100.0%	0	0	0	48	0	0	0	0
U.S. Total	41,491	34,469	20.0%	31,465	24,894	9,877	9,431	7	7	142	138

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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 December 2022 and December 2021 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	159	294	-46.0%	0	0	159	294	0	0	0	0
Connecticut	0	158	-100.0%	0	0	0	158	0	0	0	0
Maine	12	12	-0.9%	0	0	12	12	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	147	123	19.0%	0	0	147	123	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	13,215	16,642	-21.0%	0	0	13,196	16,625	0	0	19	17
New Jersey	204	444	-54.0%	0	0	204	444	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	13,012	16,198	-20.0%	0	0	12,992	16,181	0	0	19	17
East North Central	101,763	108,864	-6.5%	59,954	64,620	41,354	43,793	15	11	441	440
Illinois	24,711	26,011	-5.0%	1,076	1,060	23,276	24,601	3	3	357	347
Indiana	26,783	27,631	-3.1%	24,634	25,399	2,137	2,226	12	7	0	0
Michigan	19,637	20,693	-5.1%	19,470	20,539	164	154	0	0	3	1
Ohio	18,098	19,030	-4.9%	2,320	2,218	15,777	16,812	0	0	0	0
Wisconsin	12,534	15,498	-19.0%	12,454	15,406	0	0	0	0	80	93
West North Central	97,383	101,042	-3.6%	96,528	100,228	0	0	25	18	830	796
Iowa	10,348	12,673	-18.0%	9,841	12,195	0	0	16	12	491	465
Kansas	13,053	12,595	3.6%	13,053	12,595	0	0	0	0	0	0
Minnesota	9,357	9,222	1.5%	9,307	9,176	0	0	6	4	44	42
Missouri	30,999	33,737	-8.1%	30,996	33,734	0	0	3	3	0	0
Nebraska	12,041	11,882	1.3%	11,780	11,626	0	0	0	0	261	256
North Dakota	20,414	19,911	2.5%	20,379	19,878	0	0	0	0	35	33
South Dakota	1,171	1,024	14.0%	1,171	1,024	0	0	0	0	0	0
South Atlantic	52,824	61,394	-14.0%	45,215	53,117	7,464	8,129	5	7	140	141
Delaware	70	172	-59.0%	0	0	70	172	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,162	8,313	-14.0%	7,154	8,304	0	0	0	0	8	9
Georgia	8,900	9,968	-11.0%	8,858	9,930	0	0	0	0	42	38
Maryland	1,991	2,264	-12.0%	0	0	1,991	2,264	0	0	0	0
North Carolina	6,063	8,479	-29.0%	6,029	8,438	0	7	5	7	29	28
South Carolina	5,912	6,404	-7.7%	5,862	6,365	46	33	0	0	4	5
Virginia	1,710	1,544	11.0%	1,652	1,441	0	41	0	0	58	62
West Virginia	21,017	24,250	-13.0%	15,660	18,639	5,358	5,611	0	0	0	0
East South Central	50,345	51,951	-3.1%	47,051	48,812	3,209	3,050	0	0	85	90
Alabama	14,642	14,588	0.4%	14,635	14,588	0	0	0	0	NM	0
Kentucky	22,339	23,584	-5.3%	22,339	23,584	0	0	0	0	0	0
Mississippi	4,915	4,774	3.0%	1,706	1,724	3,209	3,050	0	0	0	0
Tennessee	8,450	9,005	-6.2%	8,371	8,915	0	0	0	0	78	90
West South Central	82,170	87,034	-5.6%	40,736	44,249	41,400	42,760	0	0	34	25
Arkansas	11,933	12,284	-2.9%	9,508	9,965	2,418	2,313	0	0	7	6
Louisiana	5,288	5,535	-4.5%	3,125	3,741	2,163	1,794	0	0	0	0
Oklahoma	5,881	7,453	-21.0%	5,854	7,435	0	0	0	0	27	19
Texas	59,068	61,762	-4.4%	22,248	23,108	36,819	38,654	0	0	0	0
Mountain	67,509	69,672	-3.1%	58,466	61,277	8,942	8,304	0	0	101	91
Arizona	8,152	8,419	-3.2%	8,152	8,419	0	0	0	0	0	0
Colorado	12,275	13,400	-8.4%	12,275	13,400	0	0	0	0	0	0
Idaho	3	3	-7.3%	0	0	0	0	0	0	3	3
Montana	7,269	6,913	5.1%	0	64	7,264	6,844	0	0	4	5
Nevada	1,577	1,490	5.8%	835	825	742	665	0	0	0	0
New Mexico	7,370	7,075	4.2%	7,370	7,075	0	0	0	0	0	0
Utah	10,571	12,274	-14.0%	10,155	11,871	416	403	0	0	0	0
Wyoming	20,291	20,096	1.0%	19,678	19,622	520	392	0	0	93	82
Pacific Contiguous	2,460	2,185	13.0%	0	0	2,405	2,120	0	0	55	65
California	50	58	-15.0%	0	0	0	0	0	0	50	58
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,410	2,126	13.0%	0	0	2,405	2,120	0	0	6	7
Pacific Noncontiguous	950	1,220	-22.0%	394	392	516	777	40	51	0	0
Alaska	580	591	-1.8%	394	392	145	147	40	51	0	0
Hawaii	370	630	-41.0%	0	0	370	630	0	0	0	0
U.S. Total	468,779	500,298	-6.3%	348,344	372,694	118,644	125,851	84	87	1,706	1,666

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Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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, December 2022 and December 2021 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	785	99	697.0%	79	4	697	90	NM	4	NM	1
Connecticut	172	5	NM	NM	0	169	4	NM	0	NM	0
Maine	140	16	788.0%	0	0	138	14	0	1	NM	0
Massachusetts	274	36	659.0%	71	3	200	33	NM	1	0	0
New Hampshire	166	38	343.0%	0	0	165	36	2	1	0	0
Rhode Island	NM	3	NM	0	0	NM	3	1	NM	NM	0
Vermont	NM	1	NM	NM	1	0	0	0	0	0	0
Middle Atlantic	1,571	80	NM	590	20	973	56	NM	1	NM	3
New Jersey	121	7	NM	0	0	120	6	NM	0	0	0
New York	1,167	37	NM	590	20	572	15	NM	1	3	1
Pennsylvania	283	37	670.0%	0	0	281	34	1	0	NM	2
East North Central	335	127	165.0%	223	99	111	26	1	0	1	0
Illinois	NM	8	NM	NM	3	NM	6	NM	0	0	0
Indiana	27	28	-6.3%	25	28	2	0	0	0	0	0
Michigan	31	29	6.1%	30	29	0	0	0	0	0	0
Ohio	173	25	583.0%	99	4	73	21	0	0	0	0
Wisconsin	NM	36	NM	NM	35	0	0	0	0	NM	0
West North Central	721	135	434.0%	708	132	NM	3	0	0	0	0
Iowa	NM	19	NM	NM	19	NM	1	0	0	NM	0
Kansas	NM	33	NM	NM	33	0	0	0	0	0	0
Minnesota	NM	12	NM	NM	10	NM	2	0	0	0	0
Missouri	415	37	NM	415	37	0	0	0	0	0	0
Nebraska	NM	14	NM	NM	14	0	0	0	0	0	0
North Dakota	NM	13	NM	NM	13	0	0	0	0	0	0
South Dakota	NM	6	NM	NM	6	0	0	NM	0	0	0
South Atlantic	1,588	172	822.0%	1,033	125	520	26	20	13	15	8
Delaware	109	5	NM	13	1	96	5	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	269	36	656.0%	236	33	32	1	0	0	NM	1
Georgia	201	26	686.0%	123	14	74	7	0	0	3	3
Maryland	121	7	NM	7	1	114	6	NM	0	0	0
North Carolina	280	11	NM	251	10	NM	1	NM	0	NM	1
South Carolina	79	8	861.0%	NM	6	5	0	NM	0	2	2
Virginia	461	29	NM	290	11	147	5	19	13	6	1
West Virginia	68	50	37.0%	41	50	27	0	0	0	0	0
East South Central	251	55	360.0%	219	52	30	1	0	0	2	1
Alabama	58	5	NM	27	3	30	1	0	0	NM	1
Kentucky	55	19	187.0%	55	19	0	0	0	0	0	0
Mississippi	3	0	NM	2	0	0	0	0	0	1	0
Tennessee	136	30	348.0%	135	30	0	0	0	0	1	0
West South Central	NM	22	NM	NM	12	NM	10	NM	0	NM	0
Arkansas	NM	4	NM	NM	2	6	3	0	0	NM	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	NM	4	NM	NM	4	0	0	0	0	1	0
Texas	NM	12	NM	NM	4	NM	7	NM	0	0	0
Mountain	59	35	65.0%	50	33	9	2	0	0	0	0
Arizona	4	7	-43.0%	4	7	0	0	NM	0	0	0
Colorado	NM	5	NM	NM	5	6	0	0	0	0	0
Idaho	0	0	-69.0%	0	0	0	0	0	0	0	0
Montana	9	2	401.0%	7	0	2	2	0	0	0	0
Nevada	1	1	99.0%	1	0	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	7	5	49.0%	7	5	0	0	0	0	0	0
Wyoming	14	14	1.4%	14	14	0	0	0	0	0	0
Pacific Contiguous	128	10	NM	24	5	6	2	NM	0	97	3
California	103	6	NM	NM	5	2	0	NM	0	95	0
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	25	5	463.0%	19	0	4	2	0	0	2	2
Pacific Noncontiguous	1,234	1,076	15.0%	1,016	867	196	190	2	2	20	18
Alaska	152	158	-3.8%	146	151	0	0	0	1	6	6
Hawaii	1,083	919	18.0%	871	716	196	190	2	1	14	12
U.S. Total	6,978	1,811	285.0%	4,069	1,349	2,731	407	33	21	144	34

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Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through December 2022 and December 2021 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	2,682	496	440.0%	134	45	2,503	414	28	29	17	9
Connecticut	325	155	110.0%	NM	9	310	142	NM	2	2	2
Maine	452	58	682.0%	0	0	437	43	3	NM	12	5
Massachusetts	1,167	150	678.0%	106	25	1,052	118	NM	6	2	1
New Hampshire	655	104	527.0%	0	0	644	94	11	11	0	0
Rhode Island	NM	19	NM	1	0	NM	16	3	2	NM	1
Vermont	NM	10	NM	NM	10	0	0	0	0	0	0
Middle Atlantic	3,748	1,633	130.0%	1,514	1,013	2,179	573	NM	16	36	30
New Jersey	170	62	175.0%	0	1	168	60	NM	1	1	0
New York	3,005	1,289	133.0%	1,513	1,012	1,474	263	NM	7	10	8
Pennsylvania	573	282	103.0%	2	1	537	251	8	8	26	23
East North Central	1,540	1,440	6.9%	1,138	1,098	390	329	4	5	8	8
Illinois	140	113	23.0%	43	37	96	76	1	0	0	0
Indiana	233	257	-9.4%	206	249	25	7	0	1	1	1
Michigan	276	285	-3.2%	274	281	0	0	1	2	2	2
Ohio	423	319	33.0%	154	72	266	245	1	0	2	1
Wisconsin	467	466	0.4%	462	458	1	2	1	2	3	4
West North Central	2,097	1,695	24.0%	2,059	1,671	NM	18	3	3	2	2
Iowa	266	240	11.0%	261	234	5	5	0	0	NM	0
Kansas	502	363	38.0%	502	363	0	0	0	0	0	0
Minnesota	237	215	10.0%	206	198	NM	13	2	3	2	2
Missouri	807	589	37.0%	806	588	0	0	1	0	0	0
Nebraska	137	136	0.9%	137	136	0	0	0	0	0	0
North Dakota	63	67	-6.9%	63	67	0	0	0	0	0	0
South Dakota	85	84	0.2%	84	84	0	0	NM	0	0	0
South Atlantic	3,999	2,594	54.0%	2,829	1,870	925	456	147	182	98	87
Delaware	156	42	275.0%	21	4	135	38	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	969	622	56.0%	902	559	52	45	0	0	16	18
Georgia	397	186	113.0%	270	115	86	32	6	3	34	35
Maryland	325	194	68.0%	22	6	302	186	NM	1	NM	0
North Carolina	517	376	38.0%	463	346	NM	12	NM	1	17	17
South Carolina	236	158	49.0%	214	143	10	7	NM	0	12	9
Virginia	1,112	714	56.0%	676	403	278	127	139	176	19	7
West Virginia	288	303	-4.9%	261	294	27	9	0	0	0	0
East South Central	645	468	38.0%	597	431	36	28	0	0	12	9
Alabama	82	43	92.0%	38	9	36	27	0	0	7	6
Kentucky	186	156	19.0%	186	156	0	0	0	0	0	0
Mississippi	14	13	6.8%	12	12	0	0	0	0	2	2
Tennessee	363	256	42.0%	361	254	0	1	0	0	2	2
West South Central	805	595	35.0%	439	380	360	210	NM	1	5	5
Arkansas	NM	95	NM	NM	75	30	20	0	0	NM	0
Louisiana	NM	26	NM	NM	26	0	0	0	0	0	0
Oklahoma	58	67	-15.0%	55	66	0	0	0	0	2	1
Texas	604	406	49.0%	NM	213	330	189	NM	1	2	3
Mountain	392	436	-10.0%	368	411	24	24	NM	0	0	1
Arizona	62	86	-27.0%	62	85	0	0	NM	0	0	0
Colorado	74	66	12.0%	68	66	6	0	0	0	0	0
Idaho	0	0	-44.0%	0	0	0	0	0	0	0	0
Montana	20	17	17.0%	8	1	12	16	0	0	0	0
Nevada	19	16	20.0%	15	12	4	4	0	0	0	0
New Mexico	50	67	-25.0%	50	67	0	0	0	0	0	0
Utah	62	68	-9.0%	60	65	2	3	0	0	0	0
Wyoming	105	117	-9.7%	105	116	0	0	0	0	0	1
Pacific Contiguous	336	178	89.0%	90	71	111	45	3	2	132	60
California	272	137	99.0%	69	66	90	29	3	1	111	42
Oregon	NM	1	NM	NM	0	0	0	NM	0	0	0
Washington	63	41	55.0%	21	5	21	16	NM	0	21	19
Pacific Noncontiguous	12,963	12,099	7.1%	10,740	9,860	1,981	2,006	20	11	221	221
Alaska	1,594	1,594	0.0%	1,515	1,526	0	0	8	1	71	66
Hawaii	11,370	10,505	8.2%	9,226	8,334	1,981	2,006	12	10	150	155
U.S. Total	29,207	21,634	35.0%	19,909	16,850	8,541	4,102	225	250	532	432

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**Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector,
December 2022 and December 2021 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
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	92	93	-0.8%	60	44	27	44	0	0	5	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	64	41	55.0%	59	36	0	0	0	0	5	5
Ohio	27	44	-38.0%	0	0	27	44	0	0	0	0
Wisconsin	1	8	-84.0%	1	8	0	0	0	0	0	0
West North Central	0	0	-19.0%	0	0	0	0	0	0	0	0
Iowa	0	0	-19.0%	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	46	22	111.0%	44	20	0	0	0	0	NM	1
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	44	20	114.0%	44	20	0	0	0	0	0	0
Georgia	NM	1	NM	0	0	0	0	0	0	NM	1
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	153	117	30.0%	150	114	0	0	0	0	2	3
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	150	114	32.0%	150	114	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2	3	-24.0%	0	0	0	0	0	0	2	3
Mountain	16	15	7.5%	0	0	16	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	16	15	7.5%	0	0	16	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	307	247	24.0%	254	178	43	58	0	0	9	10

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

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

Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through December 2022 and December 2021 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 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	1,131	1,027	10.0%	748	516	322	450	0	0	61	60
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	749	512	46.0%	689	452	0	0	0	0	61	60
Ohio	322	450	-28.0%	0	0	322	450	0	0	0	0
Wisconsin	59	64	-7.2%	59	64	0	0	0	0	0	0
West North Central	3	5	-34.0%	0	0	0	0	3	1	0	4
Iowa	3	5	-34.0%	0	0	0	0	3	1	0	4
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	345	338	2.3%	324	315	0	0	0	0	22	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	324	315	2.8%	324	315	0	0	0	0	0	0
Georgia	22	23	-4.8%	0	0	0	0	0	0	22	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	7	0	--	7	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	7	0	--	7	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	1,232	1,533	-20.0%	1,192	1,493	0	0	0	0	40	40
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,192	1,493	-20.0%	1,192	1,493	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	40	40	0.8%	0	0	0	0	0	0	40	40
Mountain	167	168	-0.4%	0	0	167	168	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	167	168	-0.4%	0	0	167	168	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	2,887	3,070	-6.0%	2,271	2,323	490	618	3	1	123	127

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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, December 2022 and December 2021 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	29,975	28,842	3.9%	NM	84	28,701	27,589	450	428	756	740
Connecticut	11,771	14,182	-17.0%	30	48	11,254	13,644	144	157	343	332
Maine	1,905	1,279	49.0%	0	0	1,669	1,063	15	13	221	204
Massachusetts	10,712	7,147	50.0%	NM	36	10,376	6,802	249	234	50	75
New Hampshire	1,484	1,466	1.2%	0	0	1,465	1,447	6	4	14	15
Rhode Island	4,102	4,764	-14.0%	0	0	3,936	4,632	37	19	128	113
Vermont	1	2	-28.0%	1	1	0	0	0	1	0	0
Middle Atlantic	124,488	125,780	-1.0%	7,061	8,677	114,293	114,395	643	554	2,492	2,154
New Jersey	15,585	12,980	20.0%	NM	49	15,157	12,688	146	97	202	147
New York	33,567	34,346	-2.3%	6,953	8,626	25,875	24,989	402	397	336	334
Pennsylvania	75,337	78,454	-4.0%	28	2	73,260	76,718	95	61	1,954	1,673
East North Central	117,704	96,778	22.0%	42,243	32,153	72,225	60,858	725	660	2,511	3,107
Illinois	16,475	11,869	39.0%	1,433	1,816	14,439	9,381	213	210	389	462
Indiana	21,673	18,969	14.0%	10,010	7,850	10,544	9,437	95	82	1,024	1,601
Michigan	26,183	17,272	52.0%	11,318	6,495	14,245	10,208	288	262	332	307
Ohio	39,380	36,874	6.8%	6,557	5,496	32,600	31,152	86	61	136	165
Wisconsin	13,993	11,793	19.0%	12,925	10,496	396	680	44	45	629	572
West North Central	21,199	21,007	0.9%	16,629	16,618	3,905	3,687	154	131	511	571
Iowa	4,507	4,371	3.1%	4,224	4,088	0	0	51	31	233	252
Kansas	1,852	1,836	0.9%	1,709	1,742	0	0	0	0	142	94
Minnesota	6,939	8,967	-23.0%	4,074	5,868	2,751	2,910	42	47	72	142
Missouri	4,709	2,782	69.0%	3,479	1,936	1,153	777	61	52	15	17
Nebraska	884	758	17.0%	883	757	0	0	1	1	0	0
North Dakota	1,373	1,346	2.0%	1,355	1,325	0	0	0	0	18	21
South Dakota	935	947	-1.2%	904	901	0	0	0	0	31	45
South Atlantic	227,001	231,259	-1.8%	188,771	194,302	35,389	33,601	559	579	2,282	2,777
Delaware	2,033	3,241	-37.0%	19	11	1,579	2,816	0	0	435	415
District of Columbia	81	104	-22.0%	0	0	0	0	81	104	0	0
Florida	100,155	97,430	2.8%	94,030	92,771	5,562	3,858	NM	27	532	775
Georgia	32,906	36,227	-9.2%	25,900	29,604	6,559	6,233	0	0	447	391
Maryland	6,514	7,633	-15.0%	1,706	2,018	4,497	5,308	290	287	21	20
North Carolina	40,871	35,945	14.0%	35,855	30,215	4,788	5,498	141	162	87	71
South Carolina	10,413	17,243	-40.0%	9,205	16,773	1,136	364	0	0	72	107
Virginia	32,259	32,114	0.5%	21,637	22,691	10,120	8,669	16	0	486	754
West Virginia	1,770	1,321	34.0%	419	219	1,148	856	0	0	203	246
East South Central	92,486	76,793	20.0%	71,009	55,424	19,489	19,500	85	78	1,902	1,791
Alabama	34,821	32,934	5.7%	15,445	12,741	18,527	19,377	0	0	849	815
Kentucky	13,064	9,907	32.0%	12,010	9,712	952	103	0	0	102	92
Mississippi	32,637	27,205	20.0%	32,368	26,930	11	12	0	0	258	264
Tennessee	11,964	6,748	77.0%	11,186	6,042	0	8	85	78	692	620
West South Central	228,156	177,528	29.0%	92,017	67,805	102,418	74,857	305	345	33,416	34,521
Arkansas	16,316	15,490	5.3%	15,556	14,709	625	631	NM	53	95	96
Louisiana	39,028	35,680	9.4%	23,516	21,221	2,251	1,703	59	67	13,202	12,689
Oklahoma	23,558	14,452	63.0%	15,117	8,599	8,077	5,467	0	0	364	387
Texas	149,254	111,907	33.0%	37,828	23,276	91,465	67,056	206	225	19,755	21,349
Mountain	78,496	63,558	24.0%	62,885	49,699	14,357	12,679	180	153	1,074	1,027
Arizona	26,204	24,459	7.1%	18,421	17,533	7,753	6,876	30	50	0	0
Colorado	12,468	8,125	53.0%	10,418	6,864	1,952	1,171	1	2	98	88
Idaho	3,799	3,006	26.0%	2,513	1,896	1,214	1,032	16	14	57	65
Montana	1,379	511	170.0%	1,077	388	295	117	0	0	7	6
Nevada	15,457	14,199	8.9%	14,450	12,664	670	1,325	20	21	316	190
New Mexico	9,706	5,158	88.0%	7,219	3,069	2,391	2,037	NM	48	46	4
Utah	7,782	7,345	5.9%	7,438	6,932	NM	116	63	19	200	278
Wyoming	1,699	755	125.0%	1,348	354	0	4	0	0	351	397
Pacific Contiguous	94,324	80,975	16.0%	36,406	33,084	52,298	41,550	874	899	4,746	5,442
California	67,242	57,753	16.0%	21,051	19,971	41,235	31,947	685	870	4,272	4,966
Oregon	15,161	13,449	13.0%	7,635	7,020	7,451	6,365	19	20	56	44
Washington	11,921	9,773	22.0%	7,721	6,093	3,613	3,238	170	9	418	433
Pacific Noncontiguous	2,488	2,435	2.2%	2,461	2,414	0	0	0	0	27	20
Alaska	2,488	2,435	2.2%	2,461	2,414	0	0	0	0	27	20
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,016,315	904,955	12.0%	519,550	460,260	443,074	388,717	3,976	3,828	49,716	52,149

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Table 2.11.B. Consumption of Natural Gas for Electricity Generation by State, by Sector, Year-to-Date through December 2022 and December 2021 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	402,683	396,619	1.5%	1,545	1,329	387,949	380,835	4,822	5,413	8,366	9,042
Connecticut	167,979	168,273	-0.2%	324	536	162,562	162,176	1,615	1,806	3,478	3,755
Maine	26,665	22,079	21.0%	0	0	24,042	19,309	155	153	2,468	2,616
Massachusetts	116,542	110,245	5.7%	1,213	785	111,727	105,328	2,771	3,168	831	964
New Hampshire	32,197	32,336	-0.4%	0	0	31,983	32,104	37	49	177	183
Rhode Island	59,288	63,671	-6.9%	0	0	57,636	61,918	240	230	1,412	1,523
Vermont	12	15	-17.0%	8	8	0	0	4	7	0	0
Middle Atlantic	1,583,813	1,496,683	5.8%	97,621	112,679	1,451,770	1,361,173	6,809	6,772	27,613	16,059
New Jersey	234,399	205,766	14.0%	1,310	985	229,627	201,617	1,459	1,345	2,004	1,818
New York	455,765	435,241	4.7%	95,973	111,570	351,559	315,156	4,488	4,792	3,744	3,723
Pennsylvania	893,650	855,677	4.4%	339	123	870,584	844,400	862	636	21,865	10,518
East North Central	1,360,481	1,161,269	17.0%	483,195	409,304	838,904	711,994	8,292	8,185	30,090	31,785
Illinois	203,568	175,880	16.0%	24,677	18,681	170,907	148,896	2,623	2,577	5,360	5,725
Indiana	238,041	211,215	13.0%	109,879	87,551	113,947	108,304	905	900	13,311	14,460
Michigan	292,982	234,659	25.0%	130,813	101,110	155,786	127,125	3,094	2,990	3,289	3,434
Ohio	466,701	388,926	20.0%	71,740	64,058	391,980	321,994	1,158	1,184	1,823	1,689
Wisconsin	159,189	150,588	5.7%	146,086	137,904	6,285	5,674	511	534	6,307	6,476
West North Central	259,845	248,752	4.5%	210,345	197,732	42,941	43,863	1,774	1,705	4,785	5,451
Iowa	51,192	45,271	13.0%	47,849	42,024	NM	0	514	443	2,829	2,803
Kansas	30,426	23,997	27.0%	29,566	22,668	0	0	0	0	860	1,329
Minnesota	81,187	92,297	-12.0%	51,097	60,624	29,083	30,558	510	499	497	616
Missouri	61,866	49,711	24.0%	47,099	35,519	13,857	13,305	745	735	164	152
Nebraska	11,177	11,304	-1.1%	11,171	11,276	0	0	6	28	0	0
North Dakota	14,222	14,641	-2.9%	14,071	14,441	0	0	0	0	151	199
South Dakota	9,775	11,532	-15.0%	9,492	11,180	0	0	0	0	284	352
South Atlantic	2,993,012	2,806,650	6.6%	2,489,465	2,344,711	471,007	424,985	5,807	6,022	26,733	30,932
Delaware	35,020	27,687	26.0%	553	232	29,982	23,545	0	0	4,485	3,910
District of Columbia	1,029	1,465	-30.0%	0	0	0	0	1,029	1,465	0	0
Florida	1,398,212	1,324,799	5.5%	1,306,388	1,251,996	83,008	63,098	343	332	8,473	9,373
Georgia	431,405	407,901	5.8%	332,841	334,250	94,031	68,968	0	0	4,532	4,683
Maryland	101,227	100,485	0.7%	26,645	23,472	71,516	74,192	2,831	2,596	234	224
North Carolina	461,138	363,318	27.0%	395,177	301,722	63,559	59,082	1,521	1,628	881	886
South Carolina	185,380	174,408	6.3%	169,918	166,884	14,666	6,495	0	1	796	1,029
Virginia	360,043	384,287	-6.3%	253,237	262,268	101,272	113,949	84	0	5,451	8,071
West Virginia	19,558	22,300	-12.0%	4,705	3,887	12,972	15,656	0	0	1,881	2,756
East South Central	1,092,338	952,120	15.0%	809,788	712,653	260,430	216,615	936	908	21,184	21,945
Alabama	445,964	381,952	17.0%	184,287	162,547	252,115	209,502	0	0	9,562	9,902
Kentucky	138,486	109,022	27.0%	129,245	101,115	8,169	6,862	0	0	1,071	1,046
Mississippi	376,832	353,612	6.6%	373,936	350,577	95	87	0	0	2,801	2,948
Tennessee	131,056	107,534	22.0%	122,320	98,414	51	164	936	908	7,749	8,049
West South Central	2,858,225	2,563,876	11.0%	1,170,017	1,003,404	1,292,906	1,171,052	4,654	4,505	390,648	384,915
Arkansas	183,746	146,707	25.0%	175,158	139,489	6,981	5,497	450	479	1,157	1,242
Louisiana	513,382	451,466	14.0%	334,788	289,353	26,803	22,709	650	813	151,142	138,591
Oklahoma	294,268	268,342	9.7%	202,507	182,126	87,896	82,396	0	0	3,866	3,820
Texas	1,866,828	1,697,362	10.0%	457,564	392,436	1,171,227	1,060,451	3,554	3,213	234,483	241,262
Mountain	883,391	889,043	-0.6%	694,904	695,835	174,405	178,686	2,177	2,225	11,905	12,297
Arizona	339,591	358,191	-5.2%	239,265	254,535	99,749	103,080	577	576	0	0
Colorado	128,239	117,513	9.1%	106,972	96,637	20,043	19,646	19	15	1,204	1,214
Idaho	34,832	38,025	-8.4%	21,666	24,976	12,446	12,310	166	166	555	573
Montana	7,150	5,744	24.0%	5,803	4,586	1,303	1,107	0	0	44	51
Nevada	186,919	194,865	-4.1%	169,920	176,499	13,821	15,290	256	256	2,922	2,819
New Mexico	89,081	83,186	7.1%	62,313	55,940	25,935	26,036	611	644	221	567
Utah	82,973	79,440	4.4%	78,562	74,754	1,103	1,202	546	567	2,762	2,916
Wyoming	14,605	12,078	21.0%	10,403	7,909	5	13	0	0	4,198	4,156
Pacific Contiguous	924,314	963,043	-4.0%	358,736	373,284	490,990	507,313	9,595	9,801	64,993	72,645
California	689,228	700,138	-1.6%	221,261	221,343	398,966	401,692	8,876	9,535	60,126	67,568
Oregon	132,068	147,409	-10.0%	69,747	74,478	61,649	72,225	199	213	473	493
Washington	103,018	115,496	-11.0%	67,728	77,463	30,375	33,396	521	53	4,395	4,585
Pacific Noncontiguous	26,781	25,782	3.9%	26,476	25,510	0	0	2	0	302	272
Alaska	26,781	25,782	3.9%	26,476	25,510	0	0	2	0	302	272
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	12,384,883	11,503,839	7.7%	6,342,093	5,876,442	5,411,303	4,996,517	44,868	45,536	586,618	585,344

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Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, December 2022 and December 2021 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	868	1,120	-22.0%	85	110	765	988	18	22	0	0
Connecticut	NM	12	NM	0	0	NM	12	0	0	0	0
Maine	NM	43	NM	0	0	NM	43	0	0	0	0
Massachusetts	214	298	-28.0%	0	0	214	298	0	0	0	0
New Hampshire	111	199	-44.0%	0	0	93	177	18	22	0	0
Rhode Island	410	438	-6.2%	0	0	410	438	0	0	0	0
Vermont	95	130	-27.0%	85	110	NM	20	0	0	0	0
Middle Atlantic	2,449	2,863	-14.0%	0	0	2,328	2,776	NM	40	72	48
New Jersey	302	385	-22.0%	0	0	290	376	NM	9	0	0
New York	1,146	1,292	-11.0%	0	0	1,146	1,292	0	0	0	0
Pennsylvania	1,001	1,186	-16.0%	0	0	892	1,108	NM	30	72	48
East North Central	3,607	4,809	-25.0%	808	899	2,756	3,867	22	28	21	15
Illinois	688	884	-22.0%	273	370	415	514	0	0	0	0
Indiana	622	655	-4.9%	535	529	87	125	0	0	0	0
Michigan	1,235	1,647	-25.0%	0	0	1,235	1,647	0	0	0	0
Ohio	357	862	-59.0%	0	0	357	862	0	0	0	0
Wisconsin	705	762	-7.5%	0	0	662	719	22	28	21	15
West North Central	537	650	-17.0%	185	276	349	372	0	0	NM	2
Iowa	171	177	-3.7%	0	0	171	177	0	0	0	0
Kansas	106	107	-0.7%	0	0	106	107	0	0	0	0
Minnesota	NM	95	NM	NM	62	NM	33	0	0	0	0
Missouri	NM	133	NM	NM	78	NM	55	0	0	0	0
Nebraska	118	135	-12.0%	118	135	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	NM	2	NM	0	0	0	0	0	0	NM	2
South Atlantic	3,089	4,084	-24.0%	162	306	2,789	3,652	NM	24	110	102
Delaware	109	139	-22.0%	0	0	99	130	0	0	NM	9
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	591	928	-36.0%	NM	144	549	784	0	0	0	0
Georgia	440	566	-22.0%	0	0	427	560	0	0	13	6
Maryland	NM	112	NM	0	0	NM	110	NM	2	0	0
North Carolina	679	798	-15.0%	0	0	679	798	0	0	0	0
South Carolina	226	275	-18.0%	120	162	NM	26	0	0	88	87
Virginia	963	1,253	-23.0%	0	0	940	1,231	NM	22	0	0
West Virginia	0	11	-100.0%	0	0	0	11	0	0	0	0
East South Central	412	488	-16.0%	166	211	246	278	0	0	0	0
Alabama	87	95	-8.5%	0	0	87	95	0	0	0	0
Kentucky	190	241	-21.0%	166	211	NM	30	0	0	0	0
Mississippi	NM	17	NM	0	0	NM	17	0	0	0	0
Tennessee	119	134	-12.0%	0	0	119	134	0	0	0	0
West South Central	440	758	-42.0%	0	0	440	758	0	0	0	0
Arkansas	112	130	-14.0%	0	0	112	130	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	50	NM	0	0	NM	50	0	0	0	0
Texas	287	578	-50.0%	0	0	287	578	0	0	0	0
Mountain	447	606	-26.0%	NM	49	342	481	67	76	0	0
Arizona	NM	37	NM	0	0	NM	37	0	0	0	0
Colorado	NM	102	NM	0	0	NM	102	0	0	0	0
Idaho	101	123	-18.0%	NM	29	NM	47	NM	46	0	0
Montana	NM	20	NM	NM	20	0	0	0	0	0	0
Nevada	NM	132	NM	0	0	NM	132	0	0	0	0
New Mexico	NM	39	NM	0	0	NM	39	0	0	0	0
Utah	110	154	-29.0%	0	0	91	124	18	30	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,069	4,239	-4.0%	110	130	2,765	2,995	1,193	1,087	0	26
California	3,623	3,685	-1.7%	NM	8	2,473	2,608	1,144	1,043	0	26
Oregon	398	484	-18.0%	104	122	245	319	NM	44	0	0
Washington	NM	69	NM	0	0	NM	69	0	0	0	0
Pacific Noncontiguous	57	61	-7.1%	0	0	0	0	57	61	0	0
Alaska	57	61	-7.1%	0	0	0	0	57	61	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	15,974	19,678	-19.0%	1,555	1,981	12,781	16,167	1,432	1,337	205	193

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Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through December 2022 and December 2021 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	10,486	11,536	-9.1%	1,099	1,201	9,138	10,109	249	226	0	0
Connecticut	129	142	-9.1%	0	0	129	142	0	0	0	0
Maine	386	474	-19.0%	0	0	386	474	0	0	0	0
Massachusetts	3,015	3,284	-8.2%	0	0	3,015	3,284	0	0	0	0
New Hampshire	1,431	2,159	-34.0%	0	0	1,182	1,933	249	226	0	0
Rhode Island	4,281	4,058	5.5%	0	0	4,281	4,058	0	0	0	0
Vermont	1,244	1,419	-12.0%	1,099	1,201	145	217	0	0	0	0
Middle Atlantic	32,708	36,218	-9.7%	0	0	31,414	34,801	534	479	760	937
New Jersey	4,101	4,423	-7.3%	0	0	3,963	4,315	138	108	0	0
New York	14,840	15,348	-3.3%	0	0	14,840	15,348	0	0	0	0
Pennsylvania	13,766	16,447	-16.0%	0	0	12,611	15,139	396	371	760	937
East North Central	51,141	57,258	-11.0%	10,158	10,387	40,500	46,502	275	236	208	133
Illinois	9,141	10,201	-10.0%	3,763	4,179	5,378	6,022	0	0	0	0
Indiana	7,605	7,667	-0.8%	6,395	6,207	1,210	1,460	0	0	0	0
Michigan	17,799	20,454	-13.0%	0	0	17,799	20,454	0	0	0	0
Ohio	8,057	10,040	-20.0%	0	0	8,057	10,040	0	0	0	0
Wisconsin	8,538	8,895	-4.0%	0	0	8,055	8,526	275	236	208	133
West North Central	7,390	7,908	-6.5%	2,951	3,369	4,414	4,512	0	0	26	27
Iowa	2,042	2,191	-6.8%	0	0	2,042	2,191	0	0	0	0
Kansas	1,349	1,281	5.3%	0	0	1,349	1,281	0	0	0	0
Minnesota	999	1,127	-11.0%	615	739	384	387	0	0	0	0
Missouri	1,419	1,593	-11.0%	781	940	638	653	0	0	0	0
Nebraska	1,555	1,689	-7.9%	1,555	1,689	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	26	27	-4.5%	0	0	0	0	0	0	26	27
South Atlantic	41,232	46,375	-11.0%	2,550	3,302	37,239	40,950	307	1,007	1,136	1,116
Delaware	1,408	1,512	-6.9%	0	0	1,298	1,411	0	0	110	101
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	8,203	10,478	-22.0%	890	1,545	7,312	8,933	0	0	0	0
Georgia	5,898	6,154	-4.2%	0	0	5,848	6,080	0	0	51	74
Maryland	1,181	1,486	-20.0%	0	0	1,115	1,467	NM	19	0	0
North Carolina	8,896	9,856	-9.7%	0	0	8,896	9,115	0	740	0	0
South Carolina	2,912	2,985	-2.4%	1,660	1,757	277	286	0	0	975	941
Virginia	12,680	13,785	-8.0%	0	0	12,440	13,537	240	247	0	0
West Virginia	NM	120	NM	0	0	NM	120	0	0	0	0
East South Central	5,378	5,582	-3.6%	2,203	2,412	3,176	3,170	0	0	0	0
Alabama	1,078	1,090	-1.1%	0	0	1,078	1,090	0	0	0	0
Kentucky	2,514	2,756	-8.8%	2,203	2,412	311	344	0	0	0	0
Mississippi	217	200	8.4%	0	0	217	200	0	0	0	0
Tennessee	1,570	1,536	2.2%	0	0	1,570	1,536	0	0	0	0
West South Central	7,398	8,121	-8.9%	0	0	7,398	8,121	0	0	0	0
Arkansas	1,396	1,327	5.2%	0	0	1,396	1,327	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	512	513	-0.4%	0	0	512	513	0	0	0	0
Texas	5,490	6,280	-13.0%	0	0	5,490	6,280	0	0	0	0
Mountain	5,875	6,942	-15.0%	513	561	4,618	5,502	744	879	0	0
Arizona	422	429	-1.5%	0	0	422	429	0	0	0	0
Colorado	908	1,165	-22.0%	0	0	908	1,165	0	0	0	0
Idaho	1,204	1,402	-14.0%	290	337	407	537	506	529	0	0
Montana	223	224	-0.6%	223	224	0	0	0	0	0	0
Nevada	1,281	1,506	-15.0%	0	0	1,281	1,506	0	0	0	0
New Mexico	407	448	-9.0%	0	0	407	448	0	0	0	0
Utah	1,430	1,769	-19.0%	0	0	1,192	1,418	238	350	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	50,179	51,162	-1.9%	1,405	1,599	35,917	36,364	12,857	12,870	0	328
California	44,076	44,335	-0.6%	78	105	31,650	31,573	12,349	12,329	0	328
Oregon	5,371	5,980	-10.0%	1,326	1,495	3,536	3,945	508	541	0	0
Washington	731	846	-14.0%	0	0	731	846	0	0	0	0
Pacific Noncontiguous	787	775	1.6%	0	0	0	0	787	775	0	0
Alaska	787	775	1.6%	0	0	0	0	787	775	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	212,574	231,876	-8.3%	20,879	22,831	173,813	190,031	15,753	16,472	2,130	2,542

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Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, December 2022 and December 2021 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	253	288	-12.0%	0	0	245	279	9	8	0	0
Connecticut	73	96	-24.0%	0	0	73	96	0	0	0	0
Maine	18	18	-2.3%	0	0	9	10	9	8	0	0
Massachusetts	155	164	-5.5%	0	0	155	164	0	0	0	0
New Hampshire	8	10	-17.0%	0	0	8	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	413	412	0.2%	0	0	322	313	91	99	0	0
New Jersey	103	100	2.5%	0	0	74	71	28	29	0	0
New York	150	148	1.3%	0	0	111	101	40	47	0	0
Pennsylvania	160	164	-2.2%	0	0	138	141	23	23	0	0
East North Central	13	15	-11.0%	3	3	0	0	10	12	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	2	-48.0%	0	0	0	0	1	2	0	0
Michigan	10	11	-11.0%	0	0	0	0	10	11	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	6.1%	3	3	0	0	0	0	0	0
West North Central	39	44	-9.5%	18	21	21	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	39	44	-9.5%	18	21	21	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	415	446	-6.8%	0	0	365	383	50	63	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	288	307	-6.4%	0	0	259	277	29	31	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	43	54	-19.0%	0	0	43	54	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	84	85	-0.2%	0	0	63	52	21	33	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	-100.0%	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	-100.0%	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	56	55	3.2%	0	0	56	55	0	0	0	0
California	38	31	22.0%	0	0	38	31	0	0	0	0
Oregon	8	9	-11.0%	0	0	8	9	0	0	0	0
Washington	11	15	-27.0%	0	0	11	15	0	0	0	0
Pacific Noncontiguous	27	35	-24.0%	0	0	0	0	27	35	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	27	35	-24.0%	0	0	0	0	27	35	0	0
U.S. Total	1,218	1,295	-6.0%	21	24	1,009	1,051	187	219	0	0

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Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through December 2022 and December 2021 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	3,055	3,344	-8.7%	0	0	2,945	3,244	109	100	0	0
Connecticut	972	1,148	-15.0%	0	0	972	1,148	0	0	0	0
Maine	166	212	-21.0%	0	0	57	111	109	100	0	0
Massachusetts	1,812	1,869	-3.0%	0	0	1,812	1,869	0	0	0	0
New Hampshire	104	115	-9.6%	0	0	104	115	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	4,736	4,955	-4.4%	0	0	3,695	3,810	1,041	1,145	0	0
New Jersey	1,207	1,271	-5.0%	0	0	875	933	332	338	0	0
New York	1,731	1,790	-3.3%	0	0	1,262	1,233	470	557	0	0
Pennsylvania	1,797	1,894	-5.1%	0	0	1,558	1,644	239	250	0	0
East North Central	166	166	0.4%	38	36	0	0	129	130	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	17	18	-1.9%	0	0	0	0	17	18	0	0
Michigan	112	112	-0.4%	0	0	0	0	112	112	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	38	36	4.2%	38	36	0	0	0	0	0	0
West North Central	451	451	0.1%	237	216	214	223	0	12	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	451	451	0.1%	237	216	214	223	0	12	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	5,055	5,249	-3.7%	0	0	4,391	4,525	664	724	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,460	3,539	-2.2%	0	0	3,139	3,202	321	337	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	503	607	-17.0%	0	0	503	607	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	1,092	1,102	-1.0%	0	0	749	716	343	387	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	7	-90.0%	0	0	0	0	0	0	1	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	7	-90.0%	0	0	0	0	0	0	1	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	620	641	-3.3%	0	0	620	641	0	0	0	0
California	379	377	0.6%	0	0	379	377	0	0	0	0
Oregon	97	109	-11.0%	0	0	97	109	0	0	0	0
Washington	143	154	-7.0%	0	0	143	154	0	0	0	0
Pacific Noncontiguous	414	410	0.8%	0	0	0	0	414	410	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	414	410	0.8%	0	0	0	0	414	410	0	0
U.S. Total	14,497	15,223	-4.8%	274	252	11,865	12,442	2,357	2,521	1	7

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Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, December 2022 and December 2021 (Billion Btus)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	3,461	3,466	-0.1%	515	447	2,640	2,705	1	0	306	314
Connecticut	284	315	-10.0%	0	0	284	315	0	0	0	0
Maine	1,391	1,387	0.3%	0	0	1,086	1,074	0	0	306	314
Massachusetts	117	153	-24.0%	0	0	117	153	0	0	0	0
New Hampshire	968	966	0.3%	0	0	968	966	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	702	645	8.7%	515	447	186	198	1	0	0	0
Middle Atlantic	783	704	11.0%	0	0	532	417	0	0	251	287
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	604	514	17.0%	0	0	532	416	0	0	72	99
Pennsylvania	179	190	-5.4%	0	0	0	1	0	0	179	188
East North Central	2,094	1,752	20.0%	543	486	1,070	748	0	0	482	517
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,358	1,038	31.0%	0	0	1,065	742	0	0	293	296
Ohio	84	85	-1.8%	0	0	5	7	0	0	79	79
Wisconsin	653	629	3.7%	543	486	0	0	0	0	110	143
West North Central	480	488	-1.6%	NM	36	90	114	69	97	294	240
Iowa	6	1	488.0%	0	0	0	0	6	1	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	438	446	-1.6%	NM	36	90	114	47	75	274	220
Missouri	17	21	-21.0%	0	0	0	0	17	21	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	NM	20	NM	0	0	0	0	0	0	NM	20
South Atlantic	10,098	11,336	-11.0%	2,203	2,565	3,085	3,442	8	12	4,803	5,316
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	1,381	1,481	-6.7%	710	784	0	0	0	0	671	697
Georgia	3,780	4,432	-15.0%	0	0	1,763	2,203	0	0	2,017	2,229
Maryland	8	12	-38.0%	0	0	0	0	8	12	0	0
North Carolina	906	813	12.0%	0	0	393	252	0	0	514	561
South Carolina	1,346	1,341	0.4%	0	0	616	573	0	0	731	768
Virginia	2,676	3,257	-18.0%	1,492	1,781	314	414	0	0	870	1,062
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,700	2,812	-4.0%	0	0	0	0	0	0	2,700	2,812
Alabama	1,832	1,771	3.5%	0	0	0	0	0	0	1,832	1,771
Kentucky	106	139	-24.0%	0	0	0	0	0	0	106	139
Mississippi	498	625	-20.0%	0	0	0	0	0	0	498	625
Tennessee	263	277	-5.0%	0	0	0	0	0	0	263	277
West South Central	2,258	1,949	16.0%	497	0	0	0	0	0	1,761	1,949
Arkansas	279	360	-23.0%	0	0	0	0	0	0	279	360
Louisiana	1,011	1,056	-4.2%	0	0	0	0	0	0	1,011	1,056
Oklahoma	129	155	-17.0%	0	0	0	0	0	0	129	155
Texas	838	378	122.0%	497	0	0	0	0	0	342	378
Mountain	466	574	-19.0%	0	0	301	420	0	0	165	154
Arizona	225	275	-18.0%	0	0	225	275	0	0	0	0
Colorado	69	124	-44.0%	0	0	69	124	0	0	0	0
Idaho	151	156	-3.4%	0	0	6	21	0	0	144	135
Montana	21	19	8.2%	0	0	0	0	0	0	21	19
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,809	4,799	0.2%	370	466	2,780	2,794	0	0	1,659	1,539
California	3,243	3,281	-1.2%	0	0	2,492	2,583	0	0	750	698
Oregon	638	562	14.0%	0	0	288	211	0	0	350	351
Washington	929	956	-2.9%	370	466	0	0	0	0	559	491
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	27,149	27,880	-2.6%	4,155	4,000	10,497	10,641	77	110	12,420	13,129

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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 December 2022 and December 2021 (Billion Btus)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	37,898	39,454	-3.9%	3,347	4,079	31,429	31,982	25	8	3,098	3,385
Connecticut	3,333	3,368	-1.0%	0	0	3,333	3,368	0	0	0	0
Maine	16,287	17,081	-4.7%	0	0	13,189	13,696	0	0	3,098	3,385
Massachusetts	1,388	1,411	-1.6%	0	0	1,371	1,411	NM	0	0	0
New Hampshire	11,326	11,094	2.1%	0	0	11,326	11,094	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	5,564	6,499	-14.0%	3,347	4,079	2,210	2,413	8	8	0	0
Middle Atlantic	7,985	8,463	-5.6%	0	0	4,954	5,430	0	0	3,031	3,033
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	5,831	6,306	-7.5%	0	0	4,950	5,427	0	0	881	879
Pennsylvania	2,153	2,157	-0.2%	0	0	4	NM	0	0	2,150	2,154
East North Central	24,572	22,956	7.0%	6,134	4,804	12,703	12,303	0	0	5,736	5,849
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	16,029	15,614	2.7%	0	0	12,616	12,200	0	0	3,413	3,414
Ohio	1,059	1,126	-6.0%	0	0	87	103	0	0	971	1,023
Wisconsin	7,485	6,216	20.0%	6,134	4,804	0	0	0	0	1,351	1,412
West North Central	5,343	5,743	-7.0%	222	405	1,120	1,157	1,031	877	2,969	3,305
Iowa	35	2	NM	0	0	0	0	35	2	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	4,826	5,259	-8.2%	222	405	1,120	1,157	745	639	2,738	3,058
Missouri	251	236	6.3%	0	0	0	0	251	236	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	231	247	-6.3%	0	0	0	0	0	0	231	247
South Atlantic	121,675	125,966	-3.4%	25,203	25,427	37,062	38,613	98	114	59,311	61,812
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15,980	16,462	-2.9%	7,909	8,052	0	0	0	0	8,071	8,410
Georgia	47,487	48,640	-2.4%	0	0	22,865	23,281	0	0	24,622	25,359
Maryland	98	114	-14.0%	0	0	0	0	98	114	0	0
North Carolina	9,323	10,488	-11.0%	0	0	3,261	4,215	0	0	6,061	6,273
South Carolina	16,220	16,542	-1.9%	0	0	7,254	7,462	0	0	8,966	9,080
Virginia	32,567	33,720	-3.4%	17,294	17,375	3,681	3,655	0	0	11,592	12,690
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	31,378	33,347	-5.9%	0	0	0	0	0	0	31,378	33,347
Alabama	20,852	22,391	-6.9%	0	0	0	0	0	0	20,852	22,391
Kentucky	1,371	1,402	-2.2%	0	0	0	0	0	0	1,371	1,402
Mississippi	6,011	6,445	-6.7%	0	0	0	0	0	0	6,011	6,445
Tennessee	3,143	3,110	1.1%	0	0	0	0	0	0	3,143	3,110
West South Central	27,815	24,771	12.0%	6,224	2,602	0	0	0	0	21,591	22,169
Arkansas	4,024	4,078	-1.3%	0	0	0	0	0	0	4,024	4,078
Louisiana	11,896	12,253	-2.9%	0	0	0	0	0	0	11,896	12,253
Oklahoma	1,651	1,614	2.3%	0	0	0	0	0	0	1,651	1,614
Texas	10,244	6,826	50.0%	6,224	2,602	0	0	0	0	4,020	4,224
Mountain	5,866	6,276	-6.5%	0	0	4,070	4,458	0	0	1,796	1,817
Arizona	2,671	2,885	-7.4%	0	0	2,671	2,885	0	0	0	0
Colorado	1,219	1,282	-5.0%	0	0	1,219	1,282	0	0	0	0
Idaho	1,753	1,865	-6.0%	0	0	181	291	0	0	1,572	1,574
Montana	223	243	-8.1%	0	0	0	0	0	0	223	243
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	59,593	61,278	-2.7%	4,362	4,551	34,738	35,612	0	0	20,493	21,115
California	41,029	41,868	-2.0%	0	0	31,341	32,083	0	0	9,688	9,785
Oregon	7,689	7,845	-2.0%	0	0	3,397	3,529	0	0	4,292	4,316
Washington	10,876	11,565	-6.0%	4,362	4,551	0	0	0	0	6,513	7,014
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	322,124	328,253	-1.9%	45,492	41,868	126,076	129,554	1,154	998	149,403	155,833

Displayed values of zero may 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 2022 are preliminary. Values for 2021 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, 2012 - December 2022

Period	Electric Power Sector			Electric Utilities			Independent Power Producers		
	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
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	128,102	25,960	471	104,265	16,435	428	23,837	9,525	43
2020	131,431	26,063	298	107,965	15,941	273	23,466	10,123	25
2021	91,884	26,003	302	75,231	15,636	290	16,653	10,368	12
2022	89,963	21,650	304	75,937	13,123	298	14,026	8,528	6
Year 2020, End of Month Stocks									
January	134,134	25,154	562	108,361	16,011	503	25,773	9,144	59
February	139,112	25,101	650	112,119	16,018	584	26,992	9,084	66
March	145,034	25,609	566	116,444	16,448	527	28,590	9,162	39
April	151,534	25,732	549	122,120	16,491	524	29,413	9,240	25
May	153,716	25,937	529	123,725	16,552	518	29,991	9,385	11
June	149,935	26,095	479	120,396	16,530	471	29,539	9,565	9
July	137,149	26,870	455	110,533	16,670	437	26,616	10,200	19
August	128,330	25,881	408	103,893	16,437	402	24,436	9,444	6
Sept	127,902	26,404	416	103,165	16,229	402	24,736	10,175	15
October	132,058	26,484	457	106,722	16,355	435	25,336	10,129	21
November	134,522	26,224	472	109,153	16,178	452	25,369	10,045	21
December	131,431	26,063	298	107,965	15,941	273	23,466	10,123	25
Year 2021, End of Month Stocks									
January	123,705	25,914	253	101,601	16,111	250	22,104	9,803	3
February	107,698	25,307	207	88,851	15,687	189	18,847	9,620	18
March	109,613	25,251	230	89,317	15,692	211	20,296	9,559	19
April	115,505	24,879	353	94,159	15,268	340	21,345	9,611	14
May	117,932	24,841	397	95,618	15,176	382	22,314	9,666	16
June	108,678	24,584	454	88,047	15,029	429	20,631	9,555	25
July	94,974	24,050	453	78,110	14,808	434	16,864	9,242	19
August	81,762	23,589	360	68,020	14,401	347	13,741	9,188	13
Sept	77,476	24,101	375	63,541	14,864	359	13,935	9,237	17
October	81,879	24,380	339	68,087	14,890	326	13,792	9,489	13
November	89,268	24,881	340	73,722	14,923	328	15,545	9,958	12
December	91,884	26,003	302	75,231	15,636	290	16,653	10,368	12
Year 2022, End of Month Stocks									
January	84,522	24,083	336	70,461	14,637	324	14,061	9,446	12
February	81,089	24,241	299	68,873	14,767	287	12,216	9,474	12
March	86,304	23,780	350	73,458	14,769	340	12,846	9,011	10
April	91,041	23,837	424	77,216	14,940	416	13,825	8,897	8
May	93,077	24,184	432	79,231	14,741	426	13,846	9,442	6
June	87,319	24,240	414	73,571	15,013	408	13,748	9,227	6
July	79,741	26,039	468	67,011	15,142	459	12,729	10,898	9
August	76,214	23,159	488	64,919	14,646	479	11,295	8,513	9
Sept	80,089	22,839	405	68,173	14,483	397	11,916	8,356	8
October	88,100	23,068	351	74,040	14,556	344	14,061	8,512	7
November	94,007	24,042	401	79,406	14,727	393	14,601	9,315	8
December	89,963	21,650	304	75,937	13,123	298	14,026	8,528	6

Notes: See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 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, December 2022 and 2021**

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	December 2022	December 2021	Percentage Change	December 2022	December 2021	Percentage Change	December 2022	December 2021	Percentage Change
New England	W	W	W	1,845	3,301	-44.1%	0	0	--
Connecticut	0	0	--	714	1,323	-46.0%	0	0	--
Maine	0	0	--	181	256	-29.3%	0	0	--
Massachusetts	0	0	--	627	1,143	-45.1%	0	0	--
New Hampshire	W	W	W	189	387	-51.1%	0	0	--
Rhode Island	0	0	--	NM	166	NM	0	0	--
Vermont	0	0	--	NM	28	NM	0	0	--
Middle Atlantic	2,582	2,949	-12.4%	3,913	5,563	-29.7%	0	0	--
New Jersey	0	W	W	462	744	-37.9%	0	0	--
New York	0	0	--	2,286	3,335	-31.4%	0	0	--
Pennsylvania	2,582	W	W	1,165	1,484	-21.5%	0	0	--
East North Central	17,490	18,182	-3.8%	1,435	1,669	-14.0%	W	W	W
Illinois	2,995	4,208	-28.8%	NM	94	NM	0	0	--
Indiana	6,703	5,506	21.7%	183	107	70.7%	0	0	--
Michigan	3,416	2,371	44.1%	180	225	-19.9%	W	W	W
Ohio	1,724	3,450	-50.0%	NM	462	NM	0	0	--
Wisconsin	2,652	2,647	0.2%	708	781	-9.3%	W	W	W
West North Central	17,862	19,903	-10.3%	1,414	1,082	30.7%	0	0	--
Iowa	3,581	3,680	-2.7%	NM	127	NM	0	0	--
Kansas	3,254	3,242	0.4%	116	196	-40.8%	0	0	--
Minnesota	2,375	1,925	23.4%	759	125	507.0%	0	0	--
Missouri	4,406	6,179	-28.7%	NM	425	NM	0	0	--
Nebraska	2,623	3,067	-14.5%	NM	116	NM	0	0	--
North Dakota	W	W	W	36	33	9.7%	0	0	--
South Dakota	W	W	W	NM	61	NM	0	0	--
South Atlantic	14,698	13,623	7.9%	7,969	9,547	-16.5%	W	W	W
Delaware	W	W	W	NM	561	NM	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	1,385	1,660	-16.6%	3,282	3,582	-8.4%	W	W	W
Georgia	W	2,939	W	915	1,105	-17.2%	0	0	--
Maryland	567	849	-33.2%	538	737	-27.0%	0	0	--
North Carolina	3,591	3,402	5.6%	804	1,097	-26.7%	0	0	--
South Carolina	1,524	967	57.6%	575	655	-12.2%	0	0	--
Virginia	W	551	W	1,308	1,653	-20.9%	0	0	--
West Virginia	4,289	W	W	123	157	-21.7%	W	W	W
East South Central	9,197	7,696	19.5%	917	1,048	-12.5%	0	0	--
Alabama	W	W	W	219	211	3.6%	0	0	--
Kentucky	5,070	3,441	47.3%	223	265	-15.9%	0	0	--
Mississippi	W	W	W	5	6	-18.5%	0	0	--
Tennessee	2,124	2,207	-3.7%	470	566	-16.9%	0	0	--
West South Central	15,756	14,740	6.9%	2,350	1,907	23.2%	W	W	W
Arkansas	3,564	2,946	20.9%	140	172	-18.7%	0	0	--
Louisiana	1,835	2,166	-15.3%	189	201	-5.7%	W	W	W
Oklahoma	2,446	2,025	20.8%	38	20	90.0%	0	0	--
Texas	7,912	7,603	4.1%	1,982	1,514	31.0%	0	0	--
Mountain	W	W	W	286	334	-14.3%	W	W	W
Arizona	2,387	2,150	11.1%	113	105	8.3%	0	0	--
Colorado	1,903	2,985	-36.2%	85	129	-34.2%	0	0	--
Idaho	0	0	--	0	0	53.1%	0	0	--
Montana	W	W	W	NM	17	NM	W	W	W
Nevada	W	W	W	3	2	42.8%	0	0	--
New Mexico	0	W	W	NM	16	NM	0	0	--
Utah	2,512	2,884	-12.9%	37	36	2.5%	0	0	--
Wyoming	3,595	4,300	-16.4%	30	29	4.1%	0	0	--
Pacific Contiguous	W	W	W	314	356	-11.7%	0	0	--
California	0	0	--	166	186	-11.0%	0	0	--
Oregon	0	0	--	NM	74	NM	0	0	--
Washington	W	W	W	NM	95	NM	0	0	--
Pacific Noncontiguous	0	208	-100.0%	1,207	1,197	0.9%	0	0	--
Alaska	0	W	W	NM	204	NM	0	0	--
Hawaii	0	W	W	1,197	993	20.6%	0	0	--
U.S. Total	89,963	91,884	-2.1%	21,650	26,003	-16.7%	304	302	0.5%

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

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

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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 Division, December 2022 and 2021**

Census Division	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021
Coal (Thousand Tons)							
New England	W	W	W	0	0	W	W
Middle Atlantic	2,582	2,949	-12.4%	W	W	W	W
East North Central	17,490	18,182	-3.8%	W	11,625	W	6,557
West North Central	17,862	19,903	-10.3%	17,862	19,903	0	0
South Atlantic	14,698	13,623	7.9%	13,452	12,137	1,246	1,486
East South Central	9,197	7,696	19.5%	9,197	7,696	0	0
West South Central	15,756	14,740	6.9%	W	10,657	W	4,083
Mountain	W	W	W	W	W	W	W
Pacific Contiguous	W	W	W	0	0	W	W
Pacific Noncontiguous	0	208	-100.0%	0	W	0	W
U.S. Total	89,963	91,884	-2.1%	75,937	75,231	14,026	16,653
Petroleum Liquids (Thousand Barrels)							
New England	1,845	3,301	-44.1%	178	247	1,667	3,054
Middle Atlantic	3,913	5,563	-29.7%	1,569	2,103	2,345	3,461
East North Central	1,435	1,669	-14.0%	1,073	1,299	NM	369
West North Central	1,414	1,082	30.7%	736	1,050	678	31
South Atlantic	7,969	9,547	-16.5%	6,275	7,273	1,694	2,274
East South Central	917	1,048	-12.5%	820	948	97	100
West South Central	2,350	1,907	23.2%	801	984	1,549	923
Mountain	286	334	-14.3%	263	305	23	29
Pacific Contiguous	314	356	-11.7%	NM	267	82	88
Pacific Noncontiguous	1,207	1,197	0.9%	1,176	1,159	31	38
U.S. Total	21,650	26,003	-16.7%	13,123	15,636	8,528	10,368
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	W	W	W	W	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	304	302	0.5%	298	290	6	12

W = Withheld to avoid disclosure of individual company data.

Notes: See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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, 2012 - December 2022
(Thousand Tons)**

Period	Electric Power Sector			Total
	Bituminous Coal	Subbituminous Coal	Lignite Coal	
End of Year Stocks				
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	54,769	69,942	3,124	128,102
2020	50,649	77,033	3,556	131,431
2021	34,560	54,726	2,598	91,884
2022	35,159	51,843	2,956	89,963
Year 2020, End of Month Stocks				
January	56,091	74,481	3,307	134,134
February	57,076	78,570	3,235	139,112
March	59,686	81,468	3,624	145,034
April	61,656	85,644	3,947	151,534
May	61,180	88,062	4,117	153,716
June	58,888	86,582	4,140	149,935
July	52,910	79,680	4,245	137,149
August	49,667	74,075	4,338	128,330
Sept	49,058	74,579	4,070	127,902
October	52,037	76,055	3,772	132,058
November	53,051	77,576	3,702	134,522
December	50,649	77,033	3,556	131,431
Year 2021, End of Month Stocks				
January	47,703	73,083	2,778	123,705
February	41,919	62,968	2,701	107,698
March	41,984	64,597	2,885	109,613
April	44,213	68,094	3,028	115,505
May	44,529	69,949	3,230	117,932
June	40,652	64,802	2,999	108,678
July	35,174	56,830	2,782	94,974
August	30,154	48,768	2,684	81,762
Sept	28,442	46,257	2,776	77,476
October	31,560	47,363	2,956	81,879
November	34,389	51,600	3,279	89,268
December	34,560	54,726	2,598	91,884
Year 2022, End of Month Stocks				
January	30,693	51,142	2,686	84,522
February	29,275	49,097	2,717	81,089
March	31,672	51,480	3,152	86,304
April	33,842	53,930	3,269	91,041
May	33,169	56,707	3,191	93,077
June	30,360	53,820	3,129	87,319
July	28,742	47,953	3,040	79,741
August	28,706	44,674	2,826	76,214
Sept	30,741	46,562	2,776	80,089
October	34,029	51,157	2,905	88,100
November	35,962	55,170	2,867	94,007
December	35,159	51,843	2,956	89,963

Notes: See Glossary for definitions.

Values for 2021 and prior years are final. Values for 2022 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), 2012 - December 2022

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
	(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												
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
2020	8,329,180	439,636	1.92	36.36	1.28	98.6	77,184	12,864	9.76	58.55	0.49	65.2
2021	8,750,410	461,277	1.98	37.48	1.30	90.2	97,425	16,295	14.71	87.98	0.50	68.7
2022	8,789,763	463,950	2.37	44.95	1.29	96.5	103,963	17,206	23.77	143.77	0.48	54.2
Year 2020												
January	824,546	43,600	1.94	36.61	1.24	115.1	5,667	951	13.94	83.09	0.53	50.4
February	697,756	37,081	1.90	35.84	1.27	112.2	6,854	1,137	13.10	78.94	0.49	70.5
March	664,804	35,069	1.93	36.61	1.32	117.3	6,989	1,159	10.51	63.35	0.51	81.9
April	567,451	30,302	1.92	36.02	1.24	124.1	4,472	756	8.52	50.37	0.52	54.5
May	540,788	29,157	1.89	35.11	1.15	105.8	6,846	1,155	6.64	39.34	0.50	80.4
June	627,221	33,181	1.90	36.02	1.29	88.9	7,084	1,179	7.39	44.42	0.48	71.0
July	717,893	37,878	1.91	36.18	1.30	74.9	7,372	1,223	8.70	52.42	0.48	67.1
August	782,641	41,033	1.94	36.97	1.28	80.1	5,242	874	10.09	60.51	0.49	49.3
Sept	727,047	38,209	1.94	36.92	1.27	96.7	4,956	826	9.66	57.95	0.51	54.1
October	715,434	37,289	1.91	36.69	1.37	107.4	7,388	1,224	9.24	55.77	0.48	71.5
November	712,614	37,275	1.91	36.50	1.34	106.1	5,895	979	9.53	57.41	0.45	60.6
December	750,986	39,562	1.92	36.39	1.28	89.0	8,420	1,400	10.16	61.14	0.50	74.2
Year 2021												
January	721,824	37,923	1.90	36.18	1.33	82.2	8,299	1,372	11.16	67.55	0.51	70.3
February	598,210	31,277	1.93	36.86	1.39	64.1	9,440	1,586	12.35	73.54	0.53	48.0
March	690,138	36,221	1.89	36.09	1.34	102.4	7,379	1,225	13.34	80.40	0.52	73.0
April	676,996	35,262	1.90	36.39	1.36	114.3	6,428	1,071	13.82	82.93	0.53	64.8
May	725,296	38,035	1.89	36.11	1.32	104.4	7,201	1,209	14.32	85.31	0.50	72.7
June	769,554	40,228	1.95	37.35	1.34	82.4	8,066	1,349	14.89	89.04	0.48	73.1
July	794,457	42,304	2.01	37.71	1.24	73.9	7,048	1,185	15.06	89.63	0.56	67.0
August	806,711	42,609	2.06	38.94	1.30	74.6	7,314	1,224	15.21	90.89	0.50	52.2
Sept	753,613	39,987	2.01	37.87	1.24	88.4	10,043	1,655	14.67	89.03	0.48	88.2
October	730,391	38,598	2.03	38.39	1.29	105.9	8,129	1,363	16.43	97.98	0.44	74.6
November	741,983	39,505	2.04	38.27	1.27	117.2	8,494	1,437	17.71	104.67	0.48	79.4
December	741,239	39,329	2.07	39.06	1.25	111.0	9,585	1,621	17.19	101.69	0.49	81.7
Year 2022												
January	740,091	39,488	2.20	41.33	1.21	79.7	12,990	2,172	17.61	105.58	0.46	40.4
February	674,480	35,693	2.18	41.16	1.19	87.8	9,544	1,579	18.33	110.96	0.48	78.2
March	735,281	38,531	2.16	41.20	1.30	109.6	6,814	1,133	22.36	134.50	0.50	59.9
April	666,617	34,846	2.19	41.86	1.36	110.4	6,878	1,137	26.45	160.03	0.50	74.1
May	728,701	38,400	2.24	42.51	1.33	107.2	5,497	913	28.06	168.93	0.49	52.8
June	712,535	37,692	2.32	43.91	1.31	88.7	8,079	1,332	28.69	173.95	0.49	73.0
July	752,383	39,826	2.48	46.81	1.32	79.3	8,080	1,332	29.24	177.41	0.50	64.1
August	819,457	43,262	2.51	47.65	1.29	88.1	7,516	1,238	26.24	159.27	0.50	61.5
Sept	778,764	41,101	2.52	47.71	1.29	108.1	7,570	1,241	24.34	148.48	0.48	63.8
October	768,210	40,629	2.47	46.75	1.28	125.9	8,274	1,353	23.24	142.10	0.47	67.8
November	710,141	37,562	2.49	47.05	1.22	113.4	8,909	1,479	26.03	157.15	0.46	79.1
December	703,103	36,921	2.65	50.56	1.33	86.8	13,812	2,297	21.37	128.86	0.44	30.8
Year to Date												
2020	8,329,180	439,636	1.92	36.36	1.28	98.6	77,184	12,864	9.76	58.55	0.49	65.2
2021	8,750,410	461,277	1.98	37.48	1.30	90.2	97,425	16,295	14.71	87.98	0.50	68.7
2022	8,789,763	463,950	2.37	44.95	1.29	96.5	103,963	17,206	23.77	143.77	0.48	54.2

Displayed values of zero may represent small values that round to zero.

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.

PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2021 and prior years are final. Values for 2022 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), 2012 - December 2022 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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	11,253,502	10,894,849	3.55	3.67	90.4	2.83
2019	56,294	1,969	1.91	54.59	5.51	55.3	12,104,890	11,704,743	2.88	2.98	91.4	2.50
2020	67,842	2,396	1.70	48.03	5.41	62.1	12,380,902	11,981,552	2.40	2.48	90.6	2.22
2021	64,891	2,296	3.16	89.27	5.24	60.0	11,955,117	11,566,909	5.20	5.38	90.9	3.82
2022	64,689	2,286	4.35	122.99	5.52	63.2	11,867,162	11,497,833	7.22	7.45	84.6	5.13
Year 2020												
January	8,421	295	1.53	43.68	5.34	89.2	1,007,938	973,168	2.62	2.71	88.0	2.33
February	6,913	244	1.47	41.75	4.99	89.4	956,947	924,790	2.40	2.48	89.3	2.22
March	4,942	174	1.36	38.61	5.46	52.5	953,776	921,358	2.14	2.22	89.1	2.09
April	5,150	180	1.38	39.50	5.35	63.3	840,214	809,941	2.10	2.18	89.0	2.04
May	5,495	195	1.61	45.35	5.30	61.1	898,762	870,918	2.17	2.24	91.2	2.08
June	5,648	199	1.46	41.45	6.01	50.2	1,103,986	1,071,122	2.03	2.09	92.0	2.00
July	7,307	259	1.54	43.52	5.88	63.9	1,407,446	1,364,985	2.06	2.12	92.2	2.03
August	6,903	244	1.87	52.98	5.65	63.7	1,335,670	1,294,267	2.41	2.49	91.9	2.24
Sept	3,876	140	1.93	53.45	5.21	56.8	1,075,131	1,040,916	2.42	2.50	91.6	2.24
October	3,746	134	2.08	58.22	4.96	60.3	1,007,752	976,177	2.50	2.58	90.9	2.27
November	4,711	167	2.25	63.61	4.99	56.9	838,754	812,074	2.99	3.09	90.9	2.50
December	4,729	167	2.33	66.30	5.44	44.7	954,525	921,837	3.17	3.28	90.2	2.63
Year 2021												
January	5,427	190	2.59	73.95	5.38	53.5	934,967	903,829	3.20	3.31	90.3	2.65
February	4,645	164	2.33	66.18	5.37	48.4	829,795	801,332	17.13	17.74	89.4	10.44
March	6,956	247	2.56	72.10	5.28	75.6	797,202	770,616	3.29	3.40	89.6	2.67
April	5,749	206	2.88	80.22	5.16	87.7	816,006	790,283	3.06	3.16	90.2	2.56
May	5,309	185	2.73	78.46	5.43	64.2	875,145	847,654	3.27	3.37	91.0	2.67
June	5,260	184	3.34	95.30	5.13	72.5	1,153,921	1,117,121	3.53	3.65	92.1	2.91
July	6,204	219	3.35	94.94	5.15	64.3	1,292,721	1,249,987	4.08	4.22	91.0	3.28
August	4,179	147	3.21	91.15	5.43	40.8	1,320,595	1,277,930	4.42	4.57	91.6	3.51
Sept	5,608	203	3.62	100.04	4.77	63.9	1,043,196	1,009,698	5.04	5.21	91.1	3.76
October	4,814	170	3.03	85.94	5.27	53.0	1,003,312	971,395	5.70	5.88	91.5	4.13
November	6,105	218	4.34	121.62	5.04	57.1	930,009	900,082	5.77	5.96	90.5	4.11
December	4,634	163	3.89	110.86	5.60	52.3	958,247	926,980	5.64	5.83	91.6	4.09
Year 2022												
January	5,343	189	4.32	122.16	5.11	68.6	958,170	927,473	6.57	6.79	84.5	4.68
February	4,050	141	4.24	121.53	5.80	46.9	810,918	785,241	6.03	6.23	84.0	4.29
March	5,791	205	4.84	136.40	5.31	77.3	793,324	769,234	5.11	5.28	84.8	3.72
April	6,637	235	4.80	135.31	5.57	89.5	753,421	730,925	6.23	6.43	84.5	4.35
May	5,992	212	4.97	140.62	5.48	62.0	917,737	890,339	7.56	7.80	85.4	5.16
June	4,887	173	4.50	126.93	5.51	53.8	1,101,034	1,068,703	8.01	8.25	84.7	5.74
July	5,781	205	4.65	131.34	5.54	79.2	1,315,747	1,276,647	7.49	7.72	83.8	5.64
August	6,465	228	5.02	142.06	5.62	75.5	1,304,597	1,263,879	9.02	9.31	84.2	6.41
Sept	3,818	134	2.32	66.08	5.74	43.1	1,091,877	1,056,358	8.20	8.47	85.3	5.74
October	4,142	147	3.37	94.92	5.75	48.3	939,118	909,390	5.84	6.03	85.1	4.34
November	6,485	229	3.84	108.96	5.53	73.1	893,095	865,196	5.72	5.91	84.3	4.34
December	5,298	187	4.19	118.73	5.50	51.6	988,124	954,447	8.98	9.30	85.1	6.31
Year to Date												
2020	67,842	2,396	1.70	48.03	5.41	62.1	12,380,902	11,981,552	2.40	2.48	90.6	2.22
2021	64,891	2,296	3.16	89.27	5.24	60.0	11,955,117	11,566,909	5.20	5.38	90.9	3.82
2022	64,689	2,286	4.35	122.99	5.52	63.2	11,867,162	11,497,833	7.22	7.45	84.6	5.13

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 2021 and prior years are final. Values for 2022 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, 2012 - December 2022

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
	(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												
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
2020	6,256,811	327,488	1.96	37.49	1.15	100.2	56,530	9,371	9.84	59.37	0.47	67.1
2021	6,448,846	338,205	2.03	38.68	1.14	90.2	69,111	11,468	14.53	87.56	0.47	67.7
2022	6,551,848	343,535	2.42	46.12	1.15	98.0	69,169	11,402	24.41	148.07	0.48	56.9
Year 2020												
January	607,032	31,970	1.97	37.43	1.11	116.3	4,738	793	13.76	82.24	0.48	54.9
February	514,565	27,219	1.94	36.69	1.11	114.2	5,900	976	12.90	77.97	0.46	84.8
March	493,867	25,974	1.96	37.29	1.13	119.0	5,397	890	10.39	62.96	0.47	92.2
April	434,599	22,675	1.97	37.73	1.18	132.5	2,763	465	8.47	50.32	0.47	52.7
May	403,390	21,343	1.92	36.34	1.08	107.0	4,283	718	6.79	40.50	0.48	70.4
June	467,961	24,558	1.95	37.21	1.13	88.0	4,390	726	6.78	41.00	0.47	60.8
July	551,833	28,915	1.95	37.25	1.15	75.3	5,830	960	8.50	51.60	0.47	73.8
August	603,152	31,307	1.99	38.37	1.16	80.1	3,924	651	10.21	61.56	0.47	50.4
Sept	554,014	28,885	2.00	38.29	1.12	97.0	3,475	573	9.75	59.06	0.46	51.7
October	535,411	27,744	1.96	37.82	1.23	110.7	5,944	979	9.32	56.60	0.46	77.5
November	527,752	27,451	1.96	37.63	1.21	110.9	4,108	680	9.44	57.04	0.48	60.7
December	563,234	29,446	1.96	37.41	1.16	92.6	5,778	959	10.23	61.60	0.48	77.9
Year 2021												
January	524,855	27,416	1.97	37.77	1.16	82.1	6,079	994	10.94	66.90	0.47	72.1
February	432,895	22,506	1.97	37.91	1.23	61.9	7,142	1,193	12.72	76.15	0.47	51.4
March	502,746	26,282	1.95	37.28	1.17	101.8	5,440	894	13.23	80.48	0.48	75.6
April	506,346	26,292	1.94	37.28	1.20	116.4	4,447	734	13.61	82.52	0.47	61.4
May	539,795	28,011	1.95	37.57	1.17	103.3	4,906	816	13.99	84.17	0.47	67.6
June	571,750	29,803	2.01	38.49	1.18	82.0	5,792	961	14.57	87.79	0.47	74.3
July	597,304	31,627	2.07	39.08	1.08	74.7	5,254	879	15.06	90.05	0.53	70.5
August	603,863	31,668	2.12	40.51	1.16	74.3	5,319	886	15.30	91.91	0.44	50.4
Sept	556,784	29,410	2.07	39.21	1.08	87.1	8,318	1,359	14.50	88.77	0.46	96.9
October	533,631	28,034	2.08	39.62	1.13	108.5	5,386	893	16.27	98.09	0.44	67.5
November	535,618	28,455	2.06	38.79	1.07	120.4	5,026	845	17.72	105.34	0.48	66.8
December	543,259	28,701	2.11	39.93	1.08	114.3	6,002	1,013	17.21	101.92	0.47	74.8
Year 2022												
January	542,300	28,828	2.25	42.26	1.07	80.7	6,050	1,009	17.07	102.39	0.46	41.2
February	497,278	26,142	2.20	41.83	1.06	91.1	5,935	971	18.60	113.64	0.48	74.9
March	534,313	27,928	2.19	41.82	1.15	115.1	5,269	872	22.38	135.18	0.49	65.4
April	483,487	25,107	2.24	43.13	1.17	113.6	5,431	891	26.19	159.67	0.48	79.9
May	548,948	28,694	2.30	43.99	1.17	108.3	4,280	708	28.05	169.65	0.48	54.3
June	533,852	28,094	2.36	44.77	1.14	87.7	6,806	1,117	28.41	173.09	0.48	84.3
July	555,332	29,154	2.48	47.21	1.19	76.6	6,519	1,077	29.04	175.82	0.48	76.0
August	623,358	32,663	2.54	48.44	1.20	89.7	5,330	877	26.04	158.20	0.47	63.0
Sept	595,112	31,192	2.60	49.69	1.17	110.3	5,587	919	24.88	151.18	0.48	63.6
October	574,777	30,207	2.54	48.32	1.17	128.9	5,983	978	23.67	144.78	0.48	66.7
November	538,778	28,211	2.56	48.83	1.14	120.5	5,475	904	26.04	157.71	0.46	64.7
December	524,313	27,315	2.70	51.85	1.22	86.2	6,504	1,079	23.03	138.84	0.48	26.4
Year to Date												
2020	6,256,811	327,488	1.96	37.49	1.15	100.2	56,530	9,371	9.84	59.37	0.47	67.1
2021	6,448,846	338,205	2.03	38.68	1.14	90.2	69,111	11,468	14.53	87.56	0.47	67.7
2022	6,551,848	343,535	2.42	46.12	1.15	98.0	69,169	11,402	24.41	148.07	0.48	56.9

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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.

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2012 - December 2022 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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	5,562,903	5,388,544	3.68	3.80	96.2	2.80
2019	54,266	1,896	1.92	54.88	5.50	91.0	6,038,432	5,842,392	3.03	3.13	97.0	2.53
2020	65,684	2,317	1.70	48.07	5.39	101.8	6,207,039	6,011,244	2.63	2.72	96.3	2.32
2021	64,891	2,296	3.16	89.27	5.24	98.0	5,901,472	5,713,855	5.21	5.39	96.4	3.60
2022	64,607	2,283	4.35	122.99	5.52	99.5	5,811,067	5,636,696	7.52	7.75	88.2	4.91
Year 2020												
January	8,421	295	1.53	43.68	5.34	144.1	494,557	478,242	2.85	2.95	94.0	2.41
February	6,913	244	1.47	41.75	4.99	164.5	480,707	465,156	2.64	2.73	96.4	2.33
March	4,942	174	1.36	38.61	5.46	82.4	489,559	473,210	2.34	2.42	96.5	2.19
April	5,150	180	1.38	39.50	5.35	98.8	432,300	416,434	2.33	2.42	96.4	2.16
May	5,495	195	1.61	45.35	5.30	104.2	468,904	454,580	2.43	2.51	97.0	2.21
June	5,648	199	1.46	41.45	6.01	77.0	561,203	545,307	2.26	2.33	96.8	2.14
July	6,801	240	1.53	43.25	5.87	92.0	701,448	681,154	2.23	2.29	96.1	2.13
August	6,229	219	1.89	53.72	5.63	92.4	665,360	644,967	2.59	2.67	96.3	2.33
Sept	3,305	119	1.97	54.59	5.08	102.2	528,058	511,503	2.70	2.79	96.7	2.36
October	3,340	118	2.12	59.66	4.87	143.2	503,542	487,926	2.74	2.83	96.6	2.38
November	4,711	167	2.25	63.61	4.99	105.0	411,438	398,719	3.38	3.49	97.2	2.61
December	4,729	167	2.33	66.30	5.44	73.1	469,963	454,046	3.40	3.52	96.0	2.65
Year 2021												
January	5,427	190	2.59	73.95	5.38	89.7	457,380	442,433	3.42	3.54	97.1	2.70
February	4,645	164	2.33	66.18	5.37	73.1	404,863	391,435	14.95	15.47	95.9	8.23
March	6,956	247	2.56	72.10	5.28	121.1	400,289	387,315	3.68	3.80	96.6	2.77
April	5,749	206	2.88	80.22	5.16	192.7	412,575	399,946	3.34	3.44	97.1	2.62
May	5,309	185	2.73	78.46	5.43	124.6	442,080	428,517	3.56	3.67	98.1	2.73
June	5,260	184	3.34	95.30	5.13	123.9	575,255	556,914	3.74	3.86	96.0	2.93
July	6,204	219	3.35	94.94	5.15	99.3	655,484	633,900	4.24	4.38	96.2	3.25
August	4,179	147	3.21	91.15	5.43	60.1	656,574	635,636	4.57	4.72	96.0	3.44
Sept	5,608	203	3.62	100.04	4.77	106.5	508,326	492,286	5.17	5.33	96.0	3.63
October	4,814	170	3.03	85.94	5.27	83.5	478,144	463,507	5.96	6.14	97.1	3.96
November	6,105	218	4.34	121.62	5.04	84.6	451,553	437,703	6.12	6.31	96.0	3.98
December	4,634	163	3.89	110.86	5.60	89.1	458,949	444,263	5.57	5.76	95.6	3.77
Year 2022												
January	5,343	189	4.32	122.16	5.11	112.6	465,262	450,738	7.16	7.39	88.9	4.59
February	4,050	141	4.24	121.53	5.80	75.1	385,033	373,416	6.21	6.40	88.7	4.04
March	5,791	205	4.84	136.40	5.31	142.5	380,442	369,447	5.31	5.46	90.4	3.60
April	6,637	235	4.80	135.31	5.57	150.6	362,551	352,358	6.27	6.45	89.3	4.11
May	5,992	212	4.97	140.62	5.48	99.1	449,619	436,938	7.52	7.74	89.3	4.74
June	4,887	173	4.50	126.93	5.51	76.9	557,395	541,597	8.29	8.54	87.3	5.52
July	5,781	205	4.65	131.34	5.54	115.1	662,848	643,947	7.74	7.97	86.0	5.46
August	6,465	228	5.02	142.06	5.62	127.5	645,484	625,751	9.42	9.72	86.4	6.10
Sept	3,818	134	2.32	66.08	5.74	63.7	524,538	507,942	8.63	8.91	87.5	5.50
October	4,060	144	3.35	94.31	5.74	74.8	453,194	439,401	6.26	6.45	88.8	4.28
November	6,485	229	3.84	108.96	5.53	124.4	441,298	427,993	6.08	6.27	89.1	4.25
December	5,298	187	4.19	118.73	5.50	73.4	483,403	467,169	9.12	9.44	89.1	5.87
Year to Date												
2020	65,684	2,317	1.70	48.07	5.39	101.8	6,207,039	6,011,244	2.63	2.72	96.3	2.32
2021	64,891	2,296	3.16	89.27	5.24	98.0	5,901,472	5,713,855	5.21	5.39	96.4	3.60
2022	64,607	2,283	4.35	122.99	5.52	99.5	5,811,067	5,636,696	7.52	7.75	88.2	4.91

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Notes:

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

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

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2012 - December 2022

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
	(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												
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
2020	1,937,714	105,627	1.74	31.92	1.72	97.1	18,954	3,216	9.44	55.61	0.49	88.7
2021	2,159,810	116,280	1.79	33.35	1.79	91.9	25,933	4,441	15.38	89.82	0.47	101.4
2022	2,099,335	113,697	2.20	40.68	1.70	95.3	32,466	5,425	22.66	136.05	0.43	60.9
Year 2020												
January	204,384	10,993	1.79	33.36	1.63	117.5	767	132	15.20	88.67	0.56	52.0
February	171,467	9,284	1.76	32.52	1.73	112.5	765	130	14.78	86.92	0.57	51.5
March	157,521	8,456	1.78	33.11	1.91	117.4	1,400	238	10.94	64.41	0.52	81.4
April	122,808	7,138	1.72	29.55	1.47	109.2	1,594	273	8.43	49.32	0.52	109.6
May	127,290	7,319	1.75	30.51	1.37	106.4	2,434	416	6.31	36.86	0.50	156.1
June	149,025	8,115	1.72	31.63	1.80	93.0	2,598	437	8.36	49.77	0.48	142.9
July	155,687	8,460	1.72	31.65	1.84	74.2	1,418	243	9.48	55.19	0.48	67.7
August	169,527	9,246	1.71	31.48	1.73	81.1	1,180	201	9.72	56.97	0.50	61.2
Sept	163,030	8,829	1.72	31.78	1.80	98.8	1,315	226	9.46	55.17	0.52	84.8
October	167,811	8,964	1.71	32.08	1.84	101.6	1,303	222	8.75	51.26	0.52	76.4
November	173,645	9,286	1.72	32.19	1.73	97.0	1,703	285	9.72	58.12	0.39	92.2
December	175,520	9,538	1.74	32.07	1.65	81.1	2,476	414	9.97	59.69	0.48	91.3
Year 2021												
January	185,620	9,964	1.67	31.08	1.80	84.3	1,994	340	11.82	69.33	0.60	109.0
February	154,531	8,265	1.77	33.10	1.84	71.5	2,099	360	11.09	64.63	0.63	54.3
March	176,736	9,439	1.70	31.96	1.81	108.5	1,737	297	13.80	80.67	0.55	109.4
April	158,802	8,408	1.73	32.61	1.89	112.6	1,744	299	14.49	84.66	0.55	108.4
May	172,615	9,414	1.69	31.05	1.79	110.2	2,151	370	15.19	88.44	0.51	130.3
June	185,308	9,823	1.77	33.34	1.83	84.2	2,142	366	15.79	92.49	0.49	91.6
July	186,143	10,139	1.79	32.99	1.78	72.1	1,588	272	15.23	88.76	0.48	76.6
August	191,383	10,378	1.83	33.74	1.77	76.1	1,758	300	15.27	89.45	0.50	73.8
Sept	184,552	9,982	1.80	33.31	1.74	93.8	1,515	262	15.86	91.81	0.43	82.9
October	185,243	10,015	1.85	34.18	1.74	102.4	2,546	438	17.07	99.17	0.33	146.5
November	192,930	10,399	1.96	36.36	1.81	113.6	3,269	560	17.91	104.61	0.42	152.7
December	185,947	10,053	1.94	35.96	1.74	105.9	3,391	577	17.33	101.93	0.41	133.9
Year 2022												
January	185,869	10,079	2.07	38.23	1.63	78.1	6,792	1,139	18.23	109.23	0.45	44.1
February	166,487	9,030	2.08	38.46	1.57	81.2	3,381	570	17.99	106.85	0.41	115.9
March	188,026	9,978	2.05	38.73	1.72	100.2	1,326	225	23.39	137.70	0.45	63.5
April	172,455	9,236	2.00	37.46	1.87	107.1	1,334	228	28.11	164.76	0.49	92.0
May	167,471	9,109	2.02	37.25	1.88	108.0	1,042	177	29.62	174.42	0.48	74.3
June	167,192	9,034	2.21	40.96	1.83	94.4	1,129	192	31.32	184.34	0.48	59.1
July	184,805	10,077	2.46	45.22	1.72	89.1	1,405	230	31.28	191.41	0.47	52.7
August	185,225	10,065	2.43	44.70	1.63	85.4	2,029	336	27.23	164.71	0.48	73.6
Sept	172,152	9,348	2.17	40.09	1.73	104.7	1,780	289	23.36	143.93	0.44	88.5
October	182,236	9,879	2.19	40.51	1.67	124.2	2,068	339	22.56	137.79	0.37	96.0
November	161,184	8,863	2.21	40.23	1.49	100.1	3,214	539	26.24	157.38	0.41	177.5
December	166,232	9,000	2.48	45.94	1.66	90.7	6,967	1,162	19.65	118.52	0.36	41.7
Year to Date												
2020	1,937,714	105,627	1.74	31.92	1.72	97.1	18,954	3,216	9.44	55.61	0.49	88.7
2021	2,159,810	116,280	1.79	33.35	1.79	91.9	25,933	4,441	15.38	89.82	0.47	101.4
2022	2,099,335	113,697	2.20	40.68	1.70	95.3	32,466	5,425	22.66	136.05	0.43	60.9

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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.

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- See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2012 - December 2022 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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
2020	0	0	--	--	--	0.0	5,359,545	5,178,938	2.10	2.17	96.1	2.01
2021	0	0	--	--	--	0.0	5,243,722	5,065,664	5.30	5.49	95.5	4.16
2022	0	0	--	--	--	0.0	5,240,150	5,067,096	6.93	7.17	88.5	5.44
Year 2020												
January	0	0	--	--	--	0.0	439,277	423,067	2.36	2.45	96.2	2.17
February	0	0	--	--	--	0.0	408,600	394,000	2.10	2.18	96.0	2.00
March	0	0	--	--	--	0.0	395,838	381,693	1.87	1.94	95.3	1.87
April	0	0	--	--	--	0.0	343,630	331,126	1.80	1.87	95.8	1.80
May	0	0	--	--	--	0.0	363,766	352,083	1.81	1.88	95.6	1.82
June	0	0	--	--	--	0.0	476,065	460,955	1.72	1.78	96.5	1.75
July	0	0	--	--	--	0.0	636,749	616,411	1.86	1.93	96.8	1.85
August	0	0	--	--	--	0.0	601,965	582,838	2.18	2.25	96.2	2.07
Sept	0	0	--	--	--	0.0	483,385	467,471	2.02	2.09	96.0	1.95
October	0	0	--	--	--	0.0	439,690	425,470	2.16	2.23	96.1	2.03
November	0	0	--	--	--	0.0	360,175	348,114	2.47	2.56	96.2	2.22
December	0	0	--	--	--	0.0	410,405	395,711	2.89	3.00	96.1	2.53
Year 2021												
January	0	0	--	--	--	0.0	403,952	389,939	2.97	3.08	95.4	2.54
February	0	0	--	--	--	0.0	370,070	356,619	20.72	21.51	94.8	14.36
March	0	0	--	--	--	0.0	335,070	323,216	2.83	2.94	94.9	2.44
April	0	0	--	--	--	0.0	341,985	330,537	2.72	2.82	94.6	2.41
May	0	0	--	--	--	0.0	367,940	355,756	2.86	2.96	94.4	2.49
June	0	0	--	--	--	0.0	511,260	494,627	3.26	3.37	97.6	2.83
July	0	0	--	--	--	0.0	567,736	548,670	3.87	4.01	94.6	3.29
August	0	0	--	--	--	0.0	592,646	572,909	4.26	4.42	95.4	3.59
Sept	0	0	--	--	--	0.0	469,262	453,561	4.91	5.09	95.3	3.92
October	0	0	--	--	--	0.0	455,974	440,569	5.36	5.55	95.4	4.27
November	0	0	--	--	--	0.0	406,274	392,127	5.34	5.54	94.9	4.20
December	0	0	--	--	--	0.0	421,552	407,135	5.90	6.11	98.1	4.61
Year 2022												
January	0	0	--	--	--	0.0	418,086	404,055	6.19	6.42	89.0	4.91
February	0	0	--	--	--	0.0	360,495	348,337	5.87	6.08	88.5	4.60
March	0	0	--	--	--	0.0	342,826	331,587	4.96	5.13	89.5	3.85
April	0	0	--	--	--	0.0	325,905	315,281	6.23	6.45	89.1	4.63
May	0	0	--	--	--	0.0	403,015	389,985	7.60	7.86	89.5	5.75
June	0	0	--	--	--	0.0	476,903	462,003	7.52	7.77	87.9	5.95
July	0	0	--	--	--	0.0	582,421	563,981	7.21	7.46	86.6	5.91
August	0	0	--	--	--	0.0	587,105	567,895	8.50	8.79	87.2	6.81
Sept	0	0	--	--	--	0.0	502,332	485,119	7.58	7.85	89.6	5.98
October	0	0	--	--	--	0.0	421,811	407,766	5.29	5.48	89.7	4.29
November	0	0	--	--	--	0.0	384,067	371,346	5.34	5.53	87.8	4.40
December	0	0	--	--	--	0.0	435,184	419,740	9.32	9.67	89.4	7.26
Year to Date												
2020	0	0	--	--	--	0.0	5,359,545	5,178,938	2.10	2.17	96.1	2.01
2021	0	0	--	--	--	0.0	5,243,722	5,065,664	5.30	5.49	95.5	4.16
2022	0	0	--	--	--	0.0	5,240,150	5,067,096	6.93	7.17	88.5	5.44

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Notes:

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

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

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2012 - December 2022

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
	(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												
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
2020	132	6	2.96	67.66	2.93	1.2	0	0	--	--	--	0.0
2021	262	11	3.03	69.50	2.94	2.1	0	0	--	--	--	0.0
2022	268	12	4.17	94.87	3.08	2.3	0	0	--	--	--	0.0
Year 2020												
January	26	1	2.96	67.40	2.94	2.3	0	0	--	--	--	0.0
February	58	3	2.96	67.58	2.96	4.7	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
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	0	0	--	--	--	0.0	0	0	--	--	--	0.0
November	24	1	2.98	68.21	2.89	2.7	0	0	--	--	--	0.0
December	24	1	2.96	67.61	2.87	2.0	0	0	--	--	--	0.0
Year 2021												
January	28	1	2.96	68.67	2.86	2.3	0	0	--	--	--	0.0
February	93	4	2.96	67.61	2.82	6.2	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
Sept	21	1	3.09	71.22	3.05	2.1	0	0	--	--	--	0.0
October	60	3	3.09	71.01	3.01	5.7	0	0	--	--	--	0.0
November	28	1	3.09	71.01	3.01	2.4	0	0	--	--	--	0.0
December	33	1	3.07	70.46	3.08	2.9	0	0	--	--	--	0.0
Year 2022												
January	74	3	3.95	90.18	3.03	7.0	0	0	--	--	--	0.0
February	19	1	3.95	90.65	3.00	1.9	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
Sept	106	5	4.28	97.46	3.05	9.6	0	0	--	--	--	0.0
October	54	2	4.28	97.11	3.24	5.3	0	0	--	--	--	0.0
November	0	0	--	--	--	0.0	0	0	--	--	--	0.0
December	15	1	4.28	96.94	3.02	1.3	0	0	--	--	--	0.0
Year to Date												
2020	132	6	2.96	67.66	2.93	1.2	0	0	--	--	--	0.0
2021	262	11	3.03	69.50	2.94	2.1	0	0	--	--	--	0.0
2022	268	12	4.17	94.87	3.08	2.3	0	0	--	--	--	0.0

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COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.

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- See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2012 - December 2022 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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
2020	0	0	--	--	--	0.0	8,532	8,188	3.07	3.20	6.3	3.07
2021	0	0	--	--	--	0.0	8,869	8,528	3.42	3.56	7.3	3.41
2022	0	0	--	--	--	0.0	8,636	8,322	3.88	4.02	7.4	3.89
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	5.9	3.11
March	0	0	--	--	--	0.0	751	722	3.10	3.22	7.0	3.10
April	0	0	--	--	--	0.0	661	638	3.09	3.20	7.0	3.09
May	0	0	--	--	--	0.0	657	631	3.09	3.22	7.0	3.09
June	0	0	--	--	--	0.0	626	599	3.09	3.23	5.7	3.09
July	0	0	--	--	--	0.0	624	599	3.11	3.24	4.6	3.11
August	0	0	--	--	--	0.0	775	739	3.03	3.17	5.9	3.03
Sept	0	0	--	--	--	0.0	780	748	2.98	3.11	6.9	2.98
October	0	0	--	--	--	0.0	769	738	3.03	3.15	6.9	3.03
November	0	0	--	--	--	0.0	698	671	3.09	3.22	6.7	3.09
December	0	0	--	--	--	0.0	704	677	3.10	3.23	6.0	3.10
Year 2021												
January	0	0	--	--	--	0.0	759	729	3.12	3.24	6.7	3.11
February	0	0	--	--	--	0.0	676	650	3.13	3.26	6.7	3.11
March	0	0	--	--	--	0.0	702	676	3.12	3.24	7.2	3.12
April	0	0	--	--	--	0.0	740	716	3.12	3.23	9.0	3.12
May	0	0	--	--	--	0.0	673	647	3.13	3.26	8.1	3.13
June	0	0	--	--	--	0.0	671	645	3.17	3.30	6.7	3.17
July	0	0	--	--	--	0.0	680	653	3.39	3.53	6.0	3.39
August	0	0	--	--	--	0.0	794	760	3.53	3.69	6.6	3.53
Sept	0	0	--	--	--	0.0	775	743	3.86	4.02	7.7	3.84
October	0	0	--	--	--	0.0	753	724	3.74	3.89	7.7	3.69
November	0	0	--	--	--	0.0	782	754	3.92	4.06	8.0	3.89
December	0	0	--	--	--	0.0	864	830	3.65	3.80	8.3	3.63
Year 2022												
January	0	0	--	--	--	0.0	759	731	3.29	3.42	6.7	3.35
February	0	0	--	--	--	0.0	711	683	3.32	3.45	7.1	3.33
March	0	0	--	--	--	0.0	712	687	3.30	3.42	7.0	3.30
April	0	0	--	--	--	0.0	786	758	4.35	4.51	8.5	4.35
May	0	0	--	--	--	0.0	686	661	4.13	4.29	7.6	4.13
June	0	0	--	--	--	0.0	628	603	3.89	4.05	6.9	3.89
July	0	0	--	--	--	0.0	693	668	3.86	4.00	6.8	3.86
August	0	0	--	--	--	0.0	732	703	4.86	5.06	7.0	4.86
Sept	0	0	--	--	--	0.0	766	738	4.56	4.73	8.2	4.53
October	0	0	--	--	--	0.0	657	634	3.98	4.12	7.5	4.00
November	0	0	--	--	--	0.0	656	636	3.18	3.28	7.2	3.18
December	0	0	--	--	--	0.0	850	821	3.73	3.86	8.1	3.74
Year to Date												
2020	0	0	--	--	--	0.0	8,532	8,188	3.07	3.20	6.3	3.07
2021	0	0	--	--	--	0.0	8,869	8,528	3.42	3.56	7.3	3.41
2022	0	0	--	--	--	0.0	8,636	8,322	3.88	4.02	7.4	3.89

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 2021 and prior years are final. Values for 2022 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, 2012 - December 2022

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
	(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												
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
2020	134,523	6,515	2.49	51.38	1.27	68.9	1,700	277	10.52	64.54	1.20	17.0
2021	141,492	6,781	2.33	48.60	1.33	69.9	2,380	387	12.90	79.39	1.46	21.3
2022	138,312	6,706	2.76	56.86	1.27	66.2	2,327	380	18.70	114.66	1.20	17.8
Year 2020												
January	13,104	636	2.52	51.83	1.21	65.8	162	27	13.38	81.13	1.71	19.1
February	11,665	575	2.41	48.84	1.19	64.4	188	31	12.36	76.04	0.93	17.0
March	13,415	639	2.61	54.81	1.33	77.7	192	31	10.77	66.35	1.35	25.5
April	10,044	489	2.48	50.98	1.29	67.1	115	19	10.75	65.79	1.36	8.1
May	10,108	496	2.43	49.59	1.22	70.0	129	21	7.84	48.89	0.84	20.9
June	10,235	507	2.39	48.16	1.28	75.1	95	16	8.89	53.81	1.06	12.8
July	10,373	503	2.44	50.28	1.25	67.1	125	20	9.45	57.95	1.22	18.0
August	9,962	480	2.43	50.45	1.30	65.4	138	22	9.83	61.55	0.75	22.4
Sept	10,003	495	2.38	48.02	1.18	66.5	166	27	9.38	57.45	1.59	25.6
October	12,211	581	2.57	53.99	1.24	72.1	141	23	10.61	64.14	1.19	18.4
November	11,193	536	2.51	52.50	1.41	70.5	83	14	10.02	61.29	1.30	9.8
December	12,208	577	2.61	55.29	1.30	67.0	166	27	10.92	66.90	1.26	17.6
Year 2021												
January	11,321	541	2.37	49.49	1.14	62.0	226	37	11.25	69.01	1.27	18.1
February	10,691	502	2.41	51.26	1.42	61.9	200	32	11.85	73.29	1.39	13.0
March	10,655	500	2.41	51.35	1.32	62.4	201	33	12.48	75.76	1.50	19.8
April	11,849	562	2.45	51.58	1.20	74.2	236	39	12.63	77.32	1.51	29.9
May	12,886	609	2.23	47.12	1.39	79.5	144	24	12.41	76.01	1.39	18.9
June	12,496	601	2.24	46.46	1.32	77.7	132	22	14.13	86.63	0.82	19.0
July	11,009	539	2.26	46.15	1.26	63.7	206	33	13.90	85.70	1.61	28.1
August	11,465	563	2.28	46.46	1.21	71.2	237	38	12.75	78.57	1.50	27.2
Sept	12,255	593	2.33	48.06	1.35	72.4	210	34	12.67	78.29	1.56	27.2
October	11,456	547	2.48	51.94	1.21	68.3	197	32	12.68	78.52	1.49	20.2
November	13,407	649	2.21	45.64	1.56	75.0	198	32	14.24	87.87	1.46	23.0
December	12,001	575	2.35	49.10	1.56	72.3	192	31	14.41	89.71	1.59	21.0
Year 2022												
January	11,848	578	2.34	48.06	1.36	64.4	148	24	15.39	94.47	0.69	10.7
February	10,697	520	2.65	54.46	1.17	65.8	229	37	15.76	97.63	1.27	19.9
March	12,941	626	2.53	52.28	1.39	70.1	219	36	15.78	97.43	1.06	22.4
April	10,674	504	2.78	58.94	1.37	61.7	112	18	19.33	118.47	1.55	14.1
May	12,282	597	2.49	51.10	1.38	68.4	175	29	19.13	117.32	0.90	21.5
June	11,491	564	2.36	48.06	1.45	66.4	144	23	21.21	129.90	1.07	17.0
July	12,246	595	2.65	54.47	1.30	70.7	156	26	19.35	118.47	1.57	15.5
August	10,874	533	2.67	54.52	1.21	63.6	157	25	20.21	124.53	1.54	21.7
Sept	11,393	556	3.10	63.58	1.06	71.0	202	33	18.30	112.79	1.13	21.8
October	11,143	541	3.52	72.50	0.91	64.2	223	36	17.89	109.96	1.15	24.4
November	10,179	488	3.21	66.97	1.29	58.9	219	36	23.10	140.27	1.11	25.3
December	12,543	605	2.91	60.37	1.36	68.3	342	56	19.42	117.88	1.38	13.1
Year to Date												
2020	134,523	6,515	2.49	51.38	1.27	68.9	1,700	277	10.52	64.54	1.20	17.0
2021	141,492	6,781	2.33	48.60	1.33	69.9	2,380	387	12.90	79.39	1.46	21.3
2022	138,312	6,706	2.76	56.86	1.27	66.2	2,327	380	18.70	114.66	1.20	17.8

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

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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 2021 and prior years are final. Values for 2022 are preliminary.

- See Glossary for definitions.

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- See the Technical Notes for fuel conversion factors.

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

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2012 - December 2022 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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
2020	2,157	80	1.73	46.84	5.89	10.0	805,785	783,182	2.28	2.34	53.7	2.32
2021	0	0	--	--	--	0.0	801,054	778,861	4.65	4.79	56.5	4.33
2022	82	3	4.46	124.88	5.99	0.4	807,309	785,719	6.58	6.76	57.8	6.05
Year 2020												
January	0	0	--	--	--	0.0	73,310	71,097	2.36	2.43	49.0	2.40
February	0	0	--	--	--	0.0	66,947	64,971	2.12	2.18	49.2	2.19
March	0	0	--	--	--	0.0	67,628	65,733	1.99	2.05	49.4	2.11
April	0	0	--	--	--	0.0	63,624	61,742	1.86	1.92	50.2	1.96
May	0	0	--	--	--	0.0	65,435	63,624	1.97	2.02	58.4	2.04
June	0	0	--	--	--	0.0	66,093	64,260	1.82	1.88	57.0	1.91
July	506	19	1.72	47.01	6.06	24.4	68,624	66,821	1.84	1.89	54.9	1.93
August	674	25	1.72	46.47	5.81	32.2	67,571	65,724	2.30	2.36	54.6	2.32
Sept	571	21	1.74	47.01	5.96	29.0	62,909	61,194	2.52	2.59	56.1	2.51
October	407	15	1.75	47.00	5.69	21.5	63,751	62,043	2.51	2.57	54.1	2.53
November	0	0	--	--	--	0.0	66,442	64,570	3.01	3.10	57.8	2.95
December	0	0	--	--	--	0.0	73,453	71,402	2.96	3.05	56.6	2.93
Year 2021												
January	0	0	--	--	--	0.0	72,875	70,729	2.81	2.89	56.4	2.77
February	0	0	--	--	--	0.0	54,185	52,629	13.21	13.60	51.6	11.43
March	0	0	--	--	--	0.0	61,141	59,409	2.87	2.96	54.5	2.83
April	0	0	--	--	--	0.0	60,706	59,084	2.73	2.81	55.2	2.72
May	0	0	--	--	--	0.0	64,452	62,733	3.12	3.20	57.1	2.99
June	0	0	--	--	--	0.0	66,734	64,935	3.33	3.42	55.9	3.17
July	0	0	--	--	--	0.0	68,822	66,765	3.91	4.03	53.6	3.71
August	0	0	--	--	--	0.0	70,582	68,625	4.15	4.26	56.2	3.91
Sept	0	0	--	--	--	0.0	64,834	63,108	4.83	4.96	57.0	4.45
October	0	0	--	--	--	0.0	68,441	66,595	5.76	5.92	58.7	5.31
November	0	0	--	--	--	0.0	71,400	69,498	5.60	5.76	59.7	5.09
December	0	0	--	--	--	0.0	76,882	74,751	4.87	5.01	61.1	4.55
Year 2022												
January	0	0	--	--	--	0.0	74,062	71,950	4.70	4.84	57.4	4.39
February	0	0	--	--	--	0.0	64,680	62,805	5.79	5.97	56.7	5.38
March	0	0	--	--	--	0.0	69,344	67,513	4.73	4.86	57.0	4.41
April	0	0	--	--	--	0.0	64,179	62,528	6.03	6.19	58.2	5.59
May	0	0	--	--	--	0.0	64,417	62,754	7.74	7.95	57.9	6.93
June	0	0	--	--	--	0.0	66,108	64,500	8.40	8.61	59.9	7.53
July	0	0	--	--	--	0.0	69,785	68,051	7.01	7.18	59.8	6.38
August	0	0	--	--	--	0.0	71,276	69,531	8.79	9.01	59.8	8.01
Sept	0	0	--	--	--	0.0	64,241	62,559	8.49	8.72	57.8	7.70
October	82	3	4.46	124.88	5.99	4.8	63,456	61,589	5.90	6.08	55.6	5.58
November	0	0	--	--	--	0.0	67,075	65,221	5.18	5.33	56.9	4.98
December	0	0	--	--	--	0.0	68,687	66,717	6.33	6.52	56.6	5.86
Year to Date												
2020	2,157	80	1.73	46.84	5.89	10.0	805,785	783,182	2.28	2.34	53.7	2.32
2021	0	0	--	--	--	0.0	801,054	778,861	4.65	4.79	56.5	4.33
2022	82	3	4.46	124.88	5.99	0.4	807,309	785,719	6.58	6.76	57.8	6.05

Displayed values of zero may represent small values that round to zero.

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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 2021 and prior years are final. Values for 2022 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, December 2022 and 2021
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	94	17	465.0%	0	0	94	17	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	6	7	-16.0%	0	0	6	7	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	88	9	856.0%	0	0	88	9	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	949	1,322	-28.0%	0	1	925	1,310	0	0	23	11
New Jersey	0	74	-100.0%	0	0	0	74	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	949	1,249	-24.0%	0	1	925	1,237	0	0	23	11
East North Central	8,279	8,715	-5.0%	5,106	5,147	3,028	3,385	0	0	145	183
Illinois	2,267	2,561	-11.0%	408	367	1,714	2,012	0	0	145	181
Indiana	2,193	1,803	22.0%	2,012	1,595	181	208	0	0	0	0
Michigan	1,603	1,962	-18.0%	1,578	1,961	26	0	0	0	0	1
Ohio	1,264	1,308	-3.3%	156	143	1,108	1,165	0	0	0	0
Wisconsin	951	1,081	-12.0%	951	1,081	0	0	0	0	0	0
West North Central	7,364	8,340	-12.0%	7,077	8,109	0	0	1	1	287	229
Iowa	956	1,054	-9.4%	747	876	0	0	0	0	208	178
Kansas	836	886	-5.7%	836	886	0	0	0	0	0	0
Minnesota	568	671	-15.0%	568	671	0	0	0	0	0	0
Missouri	2,145	2,619	-18.0%	2,145	2,618	0	0	1	1	0	0
Nebraska	993	1,166	-15.0%	914	1,115	0	0	0	0	79	51
North Dakota	1,852	1,827	1.4%	1,852	1,827	0	0	0	0	0	0
South Dakota	15	117	-87.0%	15	117	0	0	0	0	0	0
South Atlantic	4,655	4,251	9.5%	4,072	3,415	527	787	0	0	56	50
Delaware	48	0	--	0	0	48	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	639	617	3.5%	639	610	0	0	0	0	0	7
Georgia	739	708	4.4%	729	702	0	0	0	0	9	6
Maryland	127	270	-53.0%	0	0	127	270	0	0	0	0
North Carolina	516	483	6.8%	495	462	0	0	0	0	22	22
South Carolina	611	410	49.0%	583	391	21	19	0	0	7	0
Virginia	202	78	159.0%	184	63	0	0	0	0	18	15
West Virginia	1,773	1,684	5.3%	1,442	1,187	331	498	0	0	0	0
East South Central	4,173	3,888	7.3%	3,835	3,605	303	251	0	0	35	32
Alabama	1,051	1,178	-11.0%	1,051	1,178	0	0	0	0	0	0
Kentucky	2,422	1,952	24.0%	2,422	1,952	0	0	0	0	0	0
Mississippi	389	403	-3.4%	86	152	303	251	0	0	0	0
Tennessee	310	355	-13.0%	275	323	0	0	0	0	35	32
West South Central	6,244	6,816	-8.4%	3,015	3,412	3,225	3,387	0	0	3	17
Arkansas	871	947	-8.1%	658	758	209	188	0	0	3	2
Louisiana	351	264	33.0%	238	202	113	62	0	0	0	0
Oklahoma	374	685	-45.0%	374	670	0	0	0	0	0	15
Texas	4,649	4,920	-5.5%	1,745	1,783	2,904	3,137	0	0	0	0
Mountain	4,869	5,709	-15.0%	4,170	4,970	699	739	0	0	0	0
Arizona	790	769	2.8%	790	769	0	0	0	0	0	0
Colorado	750	926	-19.0%	750	926	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	571	614	-7.0%	0	0	571	614	0	0	0	0
Nevada	74	111	-34.0%	24	47	49	64	0	0	0	0
New Mexico	527	702	-25.0%	527	702	0	0	0	0	0	0
Utah	803	1,022	-21.0%	768	984	35	39	0	0	0	0
Wyoming	1,354	1,565	-13.0%	1,310	1,543	44	22	0	0	0	0
Pacific Contiguous	254	170	49.0%	0	0	198	117	0	0	56	53
California	56	53	6.7%	0	0	0	0	0	0	56	53
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	198	117	69.0%	0	0	198	117	0	0	0	0
Pacific Noncontiguous	40	101	-61.0%	40	42	0	59	0	0	0	0
Alaska	40	42	-4.3%	40	42	0	0	0	0	0	0
Hawaii	0	59	-100.0%	0	0	0	59	0	0	0	0
U.S. Total	36,921	39,329	-6.1%	27,315	28,701	9,000	10,053	1	1	605	575

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 2021 are final. Values for 2022 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) December 2022 and 2021
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	241	87	176.0%	0	0	241	87	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	65	69	-5.0%	0	0	65	69	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	176	18	851.0%	0	0	176	18	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	11,305	15,006	-25.0%	0	7	11,206	14,902	0	0	99	97
New Jersey	184	551	-67.0%	0	0	184	551	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	11,121	14,455	-23.0%	0	7	11,022	14,351	0	0	99	97
East North Central	98,976	96,555	2.5%	57,790	54,740	39,490	39,889	0	0	1,696	1,927
Illinois	27,628	25,917	6.6%	3,800	2,003	22,142	21,990	0	0	1,687	1,924
Indiana	24,316	19,529	25.0%	21,829	17,381	2,488	2,148	0	0	0	0
Michigan	18,039	19,393	-7.0%	17,862	19,222	168	169	0	0	9	2
Ohio	16,609	17,458	-4.9%	1,916	1,876	14,692	15,582	0	0	0	0
Wisconsin	12,384	14,258	-13.0%	12,384	14,258	0	0	0	0	0	0
West North Central	99,244	98,142	1.1%	96,212	95,307	0	0	12	11	3,020	2,823
Iowa	12,694	11,702	8.5%	10,474	9,612	0	0	0	0	2,220	2,091
Kansas	13,126	12,456	5.4%	13,126	12,456	0	0	0	0	0	0
Minnesota	9,997	8,105	23.0%	9,997	8,105	0	0	0	0	0	0
Missouri	28,993	31,268	-7.3%	28,982	31,256	0	0	12	11	0	0
Nebraska	11,693	11,986	-2.4%	10,893	11,253	0	0	0	0	800	733
North Dakota	21,441	21,381	0.3%	21,441	21,381	0	0	0	0	0	0
South Dakota	1,299	1,244	4.4%	1,299	1,244	0	0	0	0	0	0
South Atlantic	53,470	54,193	-1.3%	45,730	45,536	7,106	7,999	0	0	633	658
Delaware	144	134	7.5%	0	0	144	134	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,698	7,503	-11.0%	6,678	7,466	0	0	0	0	20	37
Georgia	8,756	8,175	7.1%	8,609	8,028	0	0	0	0	147	147
Maryland	1,857	2,095	-11.0%	0	0	1,857	2,095	0	0	0	0
North Carolina	5,924	7,816	-24.0%	5,686	7,570	0	6	0	0	238	241
South Carolina	6,658	6,029	10.0%	6,407	5,826	221	169	0	0	30	34
Virginia	1,854	1,585	17.0%	1,655	1,385	0	0	0	0	199	200
West Virginia	21,579	20,855	3.5%	16,696	15,260	4,884	5,595	0	0	0	0
East South Central	52,092	48,182	8.1%	48,306	44,576	3,209	3,050	0	0	577	556
Alabama	14,380	13,190	9.0%	14,380	13,190	0	0	0	0	0	0
Kentucky	27,859	25,233	10.0%	27,859	25,233	0	0	0	0	0	0
Mississippi	4,842	4,742	2.1%	1,632	1,692	3,209	3,050	0	0	0	0
Tennessee	5,012	5,017	-0.1%	4,434	4,461	0	0	0	0	577	556
West South Central	81,726	80,928	1.0%	40,212	40,896	41,392	39,950	0	0	122	82
Arkansas	12,617	11,416	11.0%	10,030	9,216	2,529	2,146	0	0	59	54
Louisiana	5,145	3,706	39.0%	3,064	3,196	2,081	511	0	0	0	0
Oklahoma	6,197	6,912	-10.0%	6,134	6,883	0	0	0	0	63	29
Texas	57,766	58,895	-1.9%	20,984	21,601	36,783	37,294	0	0	0	0
Mountain	63,279	64,823	-2.4%	54,917	56,789	8,362	8,034	0	0	0	0
Arizona	8,402	7,192	17.0%	8,402	7,192	0	0	0	0	0	0
Colorado	11,077	12,316	-10.0%	11,077	12,316	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	6,708	6,654	0.8%	0	64	6,708	6,590	0	0	0	0
Nevada	1,645	1,259	31.0%	927	610	718	649	0	0	0	0
New Mexico	7,520	7,235	3.9%	7,520	7,235	0	0	0	0	0	0
Utah	10,088	10,629	-5.1%	9,671	10,226	416	403	0	0	0	0
Wyoming	17,839	19,539	-8.7%	17,320	19,147	520	392	0	0	0	0
Pacific Contiguous	2,992	2,410	24.0%	0	0	2,434	1,773	0	0	559	638
California	559	638	-12.0%	0	0	0	0	0	0	559	638
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,434	1,773	37.0%	0	0	2,434	1,773	0	0	0	0
Pacific Noncontiguous	625	950	-34.0%	368	353	256	597	0	0	0	0
Alaska	368	353	4.4%	368	353	0	0	0	0	0	0
Hawaii	256	597	-57.0%	0	0	256	597	0	0	0	0
U.S. Total	463,950	461,277	0.6%	343,535	338,205	113,697	116,280	12	11	6,706	6,781

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

W = Withheld to avoid disclosure of individual company data.

Notes:

See Glossary for definitions. Values for 2021 are final. Values for 2022 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, December 2022 and 2021
(Thousand Barrels)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	391	49	696.0%	45	1	346	48	0	0	0	0
Connecticut	53	4	NM	0	0	53	4	0	0	0	0
Maine	13	8	64.0%	0	0	13	8	0	0	0	0
Massachusetts	248	9	NM	45	1	203	7	0	0	0	0
New Hampshire	76	27	182.0%	0	0	76	27	0	0	0	0
Rhode Island	0	2	-100.0%	0	0	0	2	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	379	164	131.0%	2	23	371	135	0	0	6	6
New Jersey	1	1	16.0%	0	0	1	1	0	0	0	0
New York	301	126	138.0%	2	23	299	103	0	0	0	0
Pennsylvania	78	37	110.0%	0	0	71	31	0	0	6	6
East North Central	95	72	33.0%	47	50	43	19	0	0	5	2
Illinois	9	19	-54.0%	1	7	8	12	0	0	0	0
Indiana	21	26	-20.0%	21	26	0	0	0	0	0	0
Michigan	15	11	33.0%	13	9	0	0	0	0	2	2
Ohio	50	11	350.0%	12	3	35	7	0	0	3	1
Wisconsin	1	5	-77.0%	1	5	0	0	0	0	0	0
West North Central	82	123	-34.0%	82	122	0	1	0	0	0	0
Iowa	13	10	29.0%	13	10	0	0	0	0	0	0
Kansas	17	23	-28.0%	17	23	0	0	0	0	0	0
Minnesota	4	18	-77.0%	4	17	0	1	0	0	0	0
Missouri	33	36	-6.2%	33	36	0	0	0	0	0	0
Nebraska	1	9	-91.0%	1	9	0	0	0	0	0	0
North Dakota	7	21	-64.0%	7	21	0	0	0	0	0	0
South Dakota	6	7	-10.0%	6	7	0	0	0	0	0	0
South Atlantic	353	290	22.0%	147	241	166	28	0	0	39	21
Delaware	22	1	NM	0	0	22	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	27	108	-75.0%	6	106	20	0	0	0	1	2
Georgia	88	47	88.0%	13	33	61	0	0	0	14	13
Maryland	19	4	395.0%	0	0	19	4	0	0	0	0
North Carolina	53	7	667.0%	40	5	0	0	0	0	13	2
South Carolina	46	5	848.0%	34	4	7	0	0	0	4	1
Virginia	67	56	20.0%	26	38	34	15	0	0	7	3
West Virginia	31	62	-50.0%	28	54	3	8	0	0	0	0
East South Central	80	62	29.0%	48	49	28	12	0	0	5	1
Alabama	37	12	209.0%	10	0	28	12	0	0	0	0
Kentucky	17	40	-56.0%	17	40	0	0	0	0	0	0
Mississippi	1	1	47.0%	1	1	0	0	0	0	0	0
Tennessee	24	9	154.0%	19	8	0	0	0	0	5	1
West South Central	44	168	-73.0%	31	16	13	151	0	0	0	0
Arkansas	8	4	103.0%	3	2	5	2	0	0	0	0
Louisiana	0	1	-100.0%	0	1	0	0	0	0	0	0
Oklahoma	22	6	251.0%	22	6	0	0	0	0	0	0
Texas	15	157	-90.0%	7	7	8	149	0	0	0	0
Mountain	33	26	27.0%	29	22	4	4	0	0	0	0
Arizona	3	4	-13.0%	3	4	0	0	0	0	0	0
Colorado	3	2	46.0%	3	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	14	3	298.0%	11	0	3	3	0	0	0	0
Nevada	1	2	-29.0%	1	1	0	1	0	0	0	0
New Mexico	0	4	-100.0%	0	4	0	0	0	0	0	0
Utah	4	2	149.0%	4	2	0	0	0	0	0	0
Wyoming	7	9	-19.0%	7	9	0	0	0	0	0	0
Pacific Contiguous	22	2	836.0%	19	0	3	2	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	22	2	836.0%	19	0	3	2	0	0	0	0
Pacific Noncontiguous	818	665	23.0%	629	488	188	177	0	0	0	0
Alaska	2	2	9.8%	2	2	0	0	0	0	0	0
Hawaii	816	663	23.0%	627	486	188	177	0	0	0	0
U.S. Total	2,297	1,621	42.0%	1,079	1,013	1,162	577	0	0	56	31

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Notes:

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

Petroleum 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) December 2022 and 2021 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	1,612	337	379.0%	45	15	1,567	322	0	0	0	0
Connecticut	64	30	111.0%	0	0	64	30	0	0	0	0
Maine	348	77	353.0%	0	0	348	77	0	0	0	0
Massachusetts	673	44	NM	45	15	628	29	0	0	0	0
New Hampshire	527	174	203.0%	0	0	527	174	0	0	0	0
Rhode Island	0	12	-100.0%	0	0	0	12	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,800	1,482	21.0%	557	881	1,177	530	0	0	66	72
New Jersey	10	27	-61.0%	0	0	10	27	0	0	0	0
New York	1,482	1,143	30.0%	557	881	925	263	0	0	0	0
Pennsylvania	308	312	-1.4%	0	0	242	241	0	0	66	72
East North Central	634	876	-28.0%	391	506	210	339	0	0	33	30
Illinois	51	107	-52.0%	2	14	49	94	0	0	0	0
Indiana	197	248	-20.0%	197	244	0	4	0	0	0	0
Michigan	168	182	-7.9%	151	163	0	0	0	0	17	19
Ohio	202	281	-28.0%	26	31	161	239	0	0	16	11
Wisconsin	16	57	-72.0%	16	55	0	2	0	0	0	0
West North Central	640	1,332	-52.0%	640	1,321	0	10	0	0	0	0
Iowa	143	129	11.0%	143	129	0	0	0	0	0	0
Kansas	131	329	-60.0%	131	329	0	0	0	0	0	0
Minnesota	41	178	-77.0%	41	168	0	10	0	0	0	0
Missouri	240	509	-53.0%	240	509	0	0	0	0	0	0
Nebraska	10	87	-89.0%	10	87	0	0	0	0	0	0
North Dakota	67	69	-2.4%	67	69	0	0	0	0	0	0
South Dakota	7	31	-76.0%	7	31	0	0	0	0	0	0
South Atlantic	2,177	2,210	-1.5%	1,455	1,564	461	380	0	0	261	266
Delaware	38	33	14.0%	0	0	38	33	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	607	584	4.0%	560	536	25	10	0	0	23	38
Georgia	294	348	-16.0%	149	218	61	7	0	0	84	123
Maryland	128	206	-38.0%	0	0	128	206	0	0	0	0
North Carolina	216	155	39.0%	148	108	0	0	0	0	68	47
South Carolina	220	166	32.0%	154	127	32	6	0	0	34	33
Virginia	425	421	1.0%	200	290	173	106	0	0	52	24
West Virginia	249	296	-16.0%	245	286	4	10	0	0	0	0
East South Central	483	326	48.0%	432	271	32	36	0	0	19	19
Alabama	83	37	124.0%	51	1	32	36	0	0	0	0
Kentucky	134	170	-21.0%	134	170	0	0	0	0	0	0
Mississippi	11	10	8.8%	11	10	0	0	0	0	0	0
Tennessee	255	109	134.0%	236	90	0	0	0	0	19	19
West South Central	258	1,238	-79.0%	190	282	68	956	0	0	0	0
Arkansas	93	123	-24.0%	59	98	34	24	0	0	0	0
Louisiana	6	22	-73.0%	6	22	0	0	0	0	0	0
Oklahoma	76	56	34.0%	76	56	0	0	0	0	0	0
Texas	84	1,037	-92.0%	49	105	35	932	0	0	0	0
Mountain	273	315	-13.0%	255	289	18	26	0	0	0	0
Arizona	56	75	-25.0%	56	75	0	0	0	0	0	0
Colorado	12	17	-31.0%	12	17	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	23	20	12.0%	11	1	12	19	0	0	0	0
Nevada	20	17	15.0%	16	12	4	5	0	0	0	0
New Mexico	20	44	-55.0%	20	44	0	0	0	0	0	0
Utah	55	51	9.4%	53	49	2	2	0	0	0	0
Wyoming	87	90	-3.7%	87	90	0	0	0	0	0	0
Pacific Contiguous	39	17	128.0%	20	5	20	13	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	39	17	128.0%	20	5	20	13	0	0	0	0
Pacific Noncontiguous	9,288	8,162	14.0%	7,416	6,334	1,872	1,828	0	0	0	0
Alaska	25	21	18.0%	25	21	0	0	0	0	0	0
Hawaii	9,263	8,141	14.0%	7,392	6,313	1,872	1,828	0	0	0	0
U.S. Total	17,206	16,295	5.6%	11,402	11,468	5,425	4,441	0	0	380	387

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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, December 2022 and 2021
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
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	48	47	0.8%	48	47	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	44	40	11.0%	44	40	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	7	-57.0%	3	7	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	27	0	--	27	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	27	0	--	27	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	113	116	-2.5%	113	116	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	113	116	-2.5%	113	116	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	187	163	15.0%	187	163	0	0	0	0	0	0

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

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

**Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) December 2022 and 2021
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 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	715	477	50.0%	715	477	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	648	406	60.0%	648	406	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	67	72	-6.7%	67	72	0	0	0	0	0	0
West North Central	3	0	--	0	0	0	0	0	0	3	0
Iowa	3	0	--	0	0	0	0	0	0	3	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	335	296	13.0%	335	296	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	335	296	13.0%	335	296	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	7	0	--	7	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	7	0	--	7	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	1,225	1,523	-20.0%	1,225	1,523	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,225	1,523	-20.0%	1,225	1,523	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	2,286	2,296	-0.4%	2,283	2,296	0	0	0	0	3	0

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 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, December 2022 and 2021
(Million Cubic Feet)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	24,988	28,025	-11.0%	0	12	24,988	28,013	0	0	0	0
Connecticut	10,952	13,547	-19.0%	0	0	10,952	13,547	0	0	0	0
Maine	1,131	1,062	6.4%	0	0	1,131	1,062	0	0	0	0
Massachusetts	9,677	7,253	33.0%	0	12	9,677	7,241	0	0	0	0
New Hampshire	1,471	1,450	1.4%	0	0	1,471	1,450	0	0	0	0
Rhode Island	1,757	4,713	-63.0%	0	0	1,757	4,713	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	119,654	122,020	-1.9%	7,051	8,711	110,514	111,451	0	0	2,089	1,858
New Jersey	14,866	14,015	6.1%	0	0	14,866	14,015	0	0	0	0
New York	30,667	31,012	-1.1%	7,051	8,711	23,040	21,674	0	0	576	627
Pennsylvania	74,121	76,994	-3.7%	0	0	72,608	75,762	0	0	1,513	1,231
East North Central	102,292	94,209	8.6%	36,264	30,265	64,045	61,441	597	666	1,385	1,836
Illinois	8,347	10,874	-23.0%	767	1,593	7,573	8,915	0	0	7	365
Indiana	18,696	17,321	7.9%	7,692	7,650	11,004	9,671	0	0	0	0
Michigan	27,134	17,245	57.0%	10,100	4,871	15,906	11,107	597	666	531	601
Ohio	35,179	36,922	-4.7%	5,498	5,409	29,113	30,977	0	0	568	536
Wisconsin	12,935	11,847	9.2%	12,207	10,742	450	771	0	0	278	334
West North Central	11,032	20,232	-45.0%	9,408	16,175	1,182	3,583	224	164	219	310
Iowa	4,470	5,061	-12.0%	4,251	4,751	0	0	0	0	219	310
Kansas	1,204	1,397	-14.0%	1,204	1,397	0	0	0	0	0	0
Minnesota	1,425	8,071	-82.0%	1,379	5,247	46	2,822	1	1	0	0
Missouri	3,608	2,965	22.0%	2,249	2,041	1,136	761	223	163	0	0
Nebraska	123	752	-84.0%	123	752	0	0	0	0	0	0
North Dakota	34	1,344	-98.0%	34	1,344	0	0	0	0	0	0
South Dakota	168	642	-74.0%	168	642	0	0	0	0	0	0
South Atlantic	217,093	226,551	-4.2%	182,091	191,808	31,557	31,199	0	0	3,446	3,544
Delaware	1,220	2,536	-52.0%	0	0	1,220	2,536	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	95,015	94,772	0.3%	90,362	91,882	4,283	2,506	0	0	369	384
Georgia	30,536	36,172	-16.0%	24,020	29,299	5,615	5,947	0	0	901	926
Maryland	5,962	7,069	-16.0%	1,695	1,962	4,266	5,107	0	0	0	0
North Carolina	39,910	36,160	10.0%	35,498	30,214	4,154	5,648	0	0	257	298
South Carolina	11,169	16,221	-31.0%	10,077	16,008	963	99	0	0	129	114
Virginia	31,521	31,916	-1.2%	20,109	22,241	10,166	8,510	0	0	1,246	1,165
West Virginia	1,761	1,705	3.3%	329	202	889	846	0	0	544	658
East South Central	89,769	77,903	15.0%	67,594	55,522	19,621	19,694	0	0	2,554	2,687
Alabama	31,712	31,720	0.0%	13,060	12,149	18,652	19,570	0	0	0	0
Kentucky	12,726	10,035	27.0%	11,774	9,932	952	103	0	0	0	0
Mississippi	32,462	27,420	18.0%	32,445	27,399	17	20	0	0	0	0
Tennessee	12,869	8,728	47.0%	10,315	6,042	0	0	0	0	2,554	2,687
West South Central	243,408	226,464	7.5%	79,356	62,291	108,343	102,036	0	0	55,709	62,137
Arkansas	14,283	16,028	-11.0%	12,736	14,558	1,147	1,128	0	0	400	342
Louisiana	43,328	36,329	19.0%	22,615	15,341	2,459	2,178	0	0	18,254	18,810
Oklahoma	21,399	15,444	39.0%	12,651	9,267	8,080	5,481	0	0	667	697
Texas	164,398	158,662	3.6%	31,354	23,125	96,656	93,249	0	0	36,388	42,288
Mountain	70,989	59,584	19.0%	59,585	48,592	11,404	10,992	0	0	0	0
Arizona	25,687	24,292	5.7%	18,159	17,422	7,528	6,870	0	0	0	0
Colorado	11,465	7,763	48.0%	9,883	6,684	1,582	1,079	0	0	0	0
Idaho	1,456	2,685	-46.0%	1,456	1,653	0	1,032	0	0	0	0
Montana	955	290	229.0%	955	285	0	5	0	0	0	0
Nevada	14,383	12,688	13.0%	14,383	12,688	0	0	0	0	0	0
New Mexico	8,617	5,098	69.0%	6,324	3,097	2,294	2,002	0	0	0	0
Utah	7,152	6,405	12.0%	7,152	6,405	0	0	0	0	0	0
Wyoming	1,273	362	252.0%	1,273	358	0	4	0	0	0	0
Pacific Contiguous	75,216	70,591	6.6%	25,815	29,487	48,086	38,725	0	0	1,316	2,380
California	55,565	48,322	15.0%	16,382	16,779	37,867	29,163	0	0	1,316	2,380
Oregon	11,909	13,411	-11.0%	4,507	7,086	7,402	6,325	0	0	0	0
Washington	7,743	8,859	-13.0%	4,926	5,621	2,817	3,238	0	0	0	0
Pacific Noncontiguous	5	1,401	-100.0%	5	1,401	0	0	0	0	0	0
Alaska	5	1,401	-100.0%	5	1,401	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	954,447	926,980	3.0%	467,169	444,263	419,740	407,135	821	830	66,717	74,751

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Notes:

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

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) December 2022 and 2021
(Million Cubic Feet)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	337,164	384,576	-12.0%	581	635	336,583	383,941	0	0	0	0
Connecticut	155,160	159,374	-2.6%	0	0	155,160	159,374	0	0	0	0
Maine	17,148	19,660	-13.0%	0	0	17,148	19,660	0	0	0	0
Massachusetts	102,377	110,095	-7.0%	581	635	101,796	109,460	0	0	0	0
New Hampshire	31,968	32,122	-0.5%	0	0	31,968	32,122	0	0	0	0
Rhode Island	30,511	63,325	-52.0%	0	0	30,511	63,325	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,501,340	1,454,370	3.2%	96,471	113,768	1,381,109	1,328,332	0	0	23,761	12,271
New Jersey	225,510	214,529	5.1%	0	0	225,510	214,529	0	0	0	0
New York	409,379	404,185	1.3%	96,471	113,768	306,098	283,507	0	0	6,810	6,910
Pennsylvania	866,451	835,656	3.7%	0	0	849,500	830,296	0	0	16,951	5,360
East North Central	1,133,480	1,119,704	1.2%	399,436	381,952	712,612	712,136	6,095	6,243	15,336	19,374
Illinois	97,715	161,282	-39.0%	15,278	15,841	82,377	141,390	0	0	59	4,051
Indiana	197,993	195,235	1.4%	81,436	85,488	116,558	109,747	0	0	0	0
Michigan	277,460	229,961	21.0%	101,942	79,802	163,442	137,720	6,095	6,243	5,981	6,197
Ohio	406,823	385,386	5.6%	57,736	63,323	342,986	316,600	0	0	6,101	5,463
Wisconsin	153,489	147,841	3.8%	143,044	137,498	7,250	6,679	0	0	3,195	3,663
West North Central	145,917	242,167	-40.0%	125,023	193,571	14,904	42,181	2,227	2,285	3,763	4,130
Iowa	50,701	57,155	-11.0%	46,937	53,025	0	0	0	0	3,763	4,130
Kansas	18,443	17,324	6.5%	18,443	17,324	0	0	0	0	0	0
Minnesota	25,057	82,781	-70.0%	23,361	53,250	1,682	29,513	14	17	0	0
Missouri	45,887	49,849	-7.9%	30,452	34,914	13,222	12,667	2,213	2,268	0	0
Nebraska	3,438	11,099	-69.0%	3,438	11,099	0	0	0	0	0	0
North Dakota	671	15,538	-96.0%	671	15,538	0	0	0	0	0	0
South Dakota	1,721	8,421	-80.0%	1,721	8,421	0	0	0	0	0	0
South Atlantic	2,805,516	2,773,119	1.2%	2,362,673	2,331,380	406,989	403,128	0	0	35,854	38,611
Delaware	24,744	20,981	18.0%	0	0	24,744	20,981	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,326,344	1,291,719	2.7%	1,257,305	1,239,841	64,692	47,429	0	0	4,347	4,450
Georgia	375,754	411,132	-8.6%	295,148	335,256	70,938	65,571	0	0	9,668	10,305
Maryland	95,573	97,680	-2.2%	26,946	23,426	68,628	74,254	0	0	0	0
North Carolina	444,876	366,122	22.0%	387,002	301,388	54,647	61,431	0	0	3,227	3,303
South Carolina	184,031	171,948	7.0%	170,144	167,052	12,689	3,545	0	0	1,198	1,350
Virginia	335,087	387,138	-13.0%	221,955	260,777	101,071	114,182	0	0	12,061	12,179
West Virginia	19,108	26,399	-28.0%	4,174	3,640	9,580	15,735	0	0	5,354	7,024
East South Central	1,054,962	955,512	10.0%	764,290	706,434	262,289	220,148	0	0	28,383	28,930
Alabama	413,625	364,691	13.0%	159,696	151,572	253,929	213,119	0	0	0	0
Kentucky	129,409	108,445	19.0%	121,240	101,583	8,169	6,862	0	0	0	0
Mississippi	372,397	355,032	4.9%	372,206	354,866	191	167	0	0	0	0
Tennessee	139,531	127,344	9.6%	111,149	98,414	0	0	0	0	28,383	28,930
West South Central	2,993,633	2,953,583	1.4%	973,865	970,184	1,366,545	1,337,790	0	0	653,224	645,609
Arkansas	151,752	149,452	1.5%	136,102	136,190	12,444	9,886	0	0	3,206	3,375
Louisiana	557,934	504,403	11.0%	318,871	276,806	29,218	28,262	0	0	209,845	199,336
Oklahoma	260,863	264,185	-1.3%	166,310	175,359	87,898	82,405	0	0	6,655	6,421
Texas	2,023,084	2,035,543	-0.6%	352,582	381,830	1,236,984	1,217,236	0	0	433,518	436,477
Mountain	800,347	826,452	-3.2%	660,074	668,362	140,273	157,805	0	0	0	285
Arizona	335,961	355,100	-5.4%	236,451	252,298	99,510	102,802	0	0	0	0
Colorado	118,754	110,077	7.9%	102,785	92,408	15,968	17,670	0	0	0	0
Idaho	10,705	31,238	-66.0%	10,705	18,928	0	12,310	0	0	0	0
Montana	4,521	3,210	41.0%	4,521	3,176	0	35	0	0	0	0
Nevada	168,668	176,194	-4.3%	168,668	176,194	0	0	0	0	0	0
New Mexico	79,348	74,648	6.3%	54,559	49,673	24,790	24,976	0	0	0	0
Utah	72,944	68,220	6.9%	72,944	67,935	0	0	0	0	0	285
Wyoming	9,445	7,764	22.0%	9,440	7,751	5	13	0	0	0	0
Pacific Contiguous	725,342	843,445	-14.0%	254,151	333,590	445,793	480,204	0	0	25,398	29,651
California	568,111	593,557	-4.3%	179,911	188,682	362,802	375,224	0	0	25,398	29,651
Oregon	98,462	147,598	-33.0%	37,338	76,014	61,125	71,584	0	0	0	0
Washington	58,768	102,290	-43.0%	36,903	68,894	21,866	33,396	0	0	0	0
Pacific Noncontiguous	131	13,979	-99.0%	131	13,979	0	0	0	0	0	0
Alaska	131	13,979	-99.0%	131	13,979	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	11,497,833	11,566,909	-0.6%	5,636,696	5,713,855	5,067,096	5,065,664	8,322	8,528	785,719	778,861

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 2021 are final. Values for 2022 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, December 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	W	W	W	--	--	W	W
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	4.34	2.18	99.0%	--	2.90	4.34	2.18
New Jersey	--	W	W	--	--	--	W
New York	--	--	--	--	--	--	--
Pennsylvania	4.34	W	W	--	2.90	4.34	W
East North Central	2.37	2.05	16.0%	2.66	2.22	1.87	1.81
Illinois	1.88	1.76	6.8%	2.11	1.68	1.82	1.77
Indiana	W	W	W	2.99	2.53	W	W
Michigan	W	2.11	W	2.40	2.11	W	--
Ohio	W	W	W	2.78	1.88	W	W
Wisconsin	2.49	2.12	17.0%	2.49	2.12	--	--
West North Central	1.85	1.71	8.2%	1.85	1.71	--	--
Iowa	1.73	1.81	-4.4%	1.73	1.81	--	--
Kansas	1.86	1.43	30.0%	1.86	1.43	--	--
Minnesota	2.42	2.49	-2.8%	2.42	2.49	--	--
Missouri	1.98	1.79	11.0%	1.98	1.79	--	--
Nebraska	1.29	1.19	8.4%	1.29	1.19	--	--
North Dakota	1.83	1.68	8.9%	1.83	1.68	--	--
South Dakota	2.56	1.66	54.0%	2.56	1.66	--	--
South Atlantic	3.64	2.66	37.0%	3.71	2.76	3.16	2.23
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.59	3.07	17.0%	3.59	3.07	--	--
Georgia	4.76	2.97	60.0%	4.76	2.97	--	--
Maryland	4.09	W	W	--	--	4.09	W
North Carolina	4.31	3.30	31.0%	4.31	3.30	--	--
South Carolina	W	W	W	3.80	3.32	W	W
Virginia	4.23	2.60	63.0%	4.23	2.60	--	--
West Virginia	W	1.96	W	3.05	2.13	W	1.54
East South Central	W	W	W	3.13	2.21	W	W
Alabama	3.34	2.33	43.0%	3.34	2.33	--	--
Kentucky	2.70	2.11	28.0%	2.70	2.11	--	--
Mississippi	W	W	W	6.05	2.87	W	W
Tennessee	5.39	2.24	141.0%	5.39	2.24	--	--
West South Central	2.18	1.94	12.0%	2.25	2.03	2.10	1.84
Arkansas	W	W	W	2.53	2.36	W	W
Louisiana	W	W	W	2.89	2.49	W	W
Oklahoma	2.44	1.87	30.0%	2.44	1.87	--	--
Texas	W	W	W	1.98	1.87	W	W
Mountain	W	W	W	2.60	1.96	W	W
Arizona	2.71	2.41	12.0%	2.71	2.41	--	--
Colorado	3.41	1.54	121.0%	3.41	1.54	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	2.99	2.66	W	W
New Mexico	3.91	2.92	34.0%	3.91	2.92	--	--
Utah	2.21	1.96	13.0%	2.21	1.96	--	--
Wyoming	W	W	W	1.78	1.49	W	W
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	3.88	W	W	3.88	3.42	--	W
Alaska	3.88	3.42	13.0%	3.88	3.42	--	--
Hawaii	--	W	W	--	--	--	W
U.S. Total	2.65	2.07	28.0%	2.70	2.11	2.48	1.94

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 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) December 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	W	W	W	--	--	W	W
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.41	1.94	76.0%	--	2.88	3.41	1.94
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	--	2.88	W	W
East North Central	2.25	1.93	17.0%	2.54	2.12	1.83	1.68
Illinois	1.91	W	W	2.02	1.72	1.89	W
Indiana	W	W	W	2.76	2.28	W	W
Michigan	W	W	W	2.36	2.06	W	W
Ohio	W	1.66	W	2.82	1.87	W	1.64
Wisconsin	2.44	2.06	18.0%	2.44	2.06	--	--
West North Central	1.83	1.60	14.0%	1.83	1.60	--	--
Iowa	1.81	1.60	13.0%	1.81	1.60	--	--
Kansas	1.88	1.43	31.0%	1.88	1.43	--	--
Minnesota	2.33	2.15	8.4%	2.33	2.15	--	--
Missouri	1.92	1.66	16.0%	1.92	1.66	--	--
Nebraska	1.26	1.18	6.8%	1.26	1.18	--	--
North Dakota	1.67	1.61	3.7%	1.67	1.61	--	--
South Dakota	2.09	1.90	10.0%	2.09	1.90	--	--
South Atlantic	3.13	2.41	30.0%	3.17	2.50	2.86	1.95
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	3.63	2.66	36.0%	3.63	2.66	--	--
Georgia	3.88	2.75	41.0%	3.88	2.75	--	--
Maryland	5.26	W	W	--	--	5.26	W
North Carolina	3.55	W	W	3.55	2.67	--	W
South Carolina	W	W	W	3.54	2.91	W	W
Virginia	3.28	2.38	38.0%	3.28	2.38	--	--
West Virginia	W	1.94	W	2.44	2.09	W	1.53
East South Central	W	W	W	2.64	1.99	W	W
Alabama	2.81	2.19	28.0%	2.81	2.19	--	--
Kentucky	2.38	1.88	27.0%	2.38	1.88	--	--
Mississippi	W	W	W	3.95	2.56	W	W
Tennessee	3.49	1.93	81.0%	3.49	1.93	--	--
West South Central	2.20	2.04	7.8%	2.38	2.31	2.01	1.74
Arkansas	W	W	W	2.33	2.08	W	W
Louisiana	W	W	W	2.66	5.12	W	W
Oklahoma	2.59	1.74	49.0%	2.59	1.74	--	--
Texas	W	W	W	2.30	2.16	W	W
Mountain	W	W	W	2.20	1.94	W	W
Arizona	2.84	2.31	23.0%	2.84	2.31	--	--
Colorado	1.91	1.60	19.0%	1.91	1.60	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	2.31	W	W
Nevada	W	W	W	3.29	2.34	W	W
New Mexico	2.93	2.61	12.0%	2.93	2.61	--	--
Utah	2.16	1.99	8.5%	2.16	1.99	--	--
Wyoming	W	W	W	1.69	1.69	W	W
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.85	3.37	W	W
Alaska	3.85	3.37	14.0%	3.85	3.37	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.37	1.97	20.0%	2.42	2.03	2.20	1.79

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 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, December 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021
New England	14.75	W	W	20.94	18.63	13.97	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	20.94	18.63	W	W
New Hampshire	W	W	W	--	--	W	W
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	19.87	15.50	28.0%	24.95	15.62	19.84	15.48
New Jersey	W	16.35	W	--	--	W	16.35
New York	W	W	W	24.95	15.62	W	W
Pennsylvania	W	W	W	--	--	W	W
East North Central	22.60	18.18	24.0%	22.09	17.48	23.16	21.04
Illinois	25.84	18.13	43.0%	20.85	18.00	26.15	18.31
Indiana	22.57	17.79	27.0%	22.57	17.79	--	--
Michigan	20.76	16.16	28.0%	20.76	16.16	--	--
Ohio	22.37	21.75	2.9%	22.13	18.95	22.45	23.01
Wisconsin	28.67	16.60	73.0%	28.67	16.60	--	--
West North Central	22.54	W	W	22.54	16.74	--	W
Iowa	22.23	16.97	31.0%	22.23	16.97	--	--
Kansas	21.85	15.50	41.0%	21.85	15.50	--	--
Minnesota	21.02	W	W	21.02	16.39	--	W
Missouri	23.29	16.74	39.0%	23.29	16.74	--	--
Nebraska	23.05	18.26	26.0%	23.05	18.26	--	--
North Dakota	21.77	17.50	24.0%	21.77	17.50	--	--
South Dakota	22.96	17.14	34.0%	22.96	17.14	--	--
South Atlantic	W	16.74	W	22.72	17.05	W	13.95
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	17.21	W	24.36	17.21	W	--
Georgia	W	18.65	W	26.41	18.65	W	--
Maryland	23.89	W	W	--	--	23.89	W
North Carolina	23.31	16.57	41.0%	23.31	16.57	--	--
South Carolina	W	16.83	W	26.51	16.83	W	--
Virginia	W	W	W	15.54	14.89	W	W
West Virginia	W	W	W	21.89	17.34	W	W
East South Central	W	W	W	22.22	18.27	W	W
Alabama	W	W	W	23.43	17.27	W	W
Kentucky	21.72	17.07	27.0%	21.72	17.07	--	--
Mississippi	22.81	15.47	47.0%	22.81	15.47	--	--
Tennessee	22.01	24.55	-10.0%	22.01	24.55	--	--
West South Central	21.95	19.11	15.0%	21.40	16.76	23.25	19.37
Arkansas	W	W	W	24.69	17.17	W	W
Louisiana	--	17.03	--	--	17.03	--	--
Oklahoma	20.73	16.65	25.0%	20.73	16.65	--	--
Texas	W	W	W	22.23	16.72	W	W
Mountain	W	W	W	25.61	22.59	W	W
Arizona	27.03	28.21	-4.2%	27.03	28.21	--	--
Colorado	24.56	17.06	44.0%	24.56	17.06	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	23.36	--	W	W
Nevada	W	W	W	30.69	21.66	W	W
New Mexico	--	23.74	--	--	23.74	--	--
Utah	W	20.70	W	30.06	20.70	W	--
Wyoming	25.71	21.25	21.0%	25.71	21.25	--	--
Pacific Contiguous	W	W	W	23.03	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	23.03	--	W	W
Pacific Noncontiguous	W	W	W	23.38	17.12	W	W
Alaska	22.48	20.07	12.0%	22.48	20.07	--	--
Hawaii	W	W	W	23.38	17.11	W	W
U.S. Total	21.42	17.25	24.0%	23.03	17.21	19.65	17.33

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Notes:

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See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Petroleum 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) December 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	W	W	W	20.94	16.48	W	W
Connecticut	W	12.38	W	--	--	W	12.38
Maine	W	W	W	--	--	W	W
Massachusetts	14.25	17.95	-21.0%	20.94	16.48	13.36	18.90
New Hampshire	W	W	W	--	--	W	W
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	20.02	14.08	42.0%	18.65	13.14	20.78	15.73
New Jersey	W	15.50	W	--	--	W	15.50
New York	19.10	13.65	40.0%	18.65	13.14	19.40	15.41
Pennsylvania	W	16.12	W	--	--	W	16.12
East North Central	26.62	17.17	55.0%	26.59	15.45	26.68	20.05
Illinois	27.04	W	W	21.13	17.54	27.25	W
Indiana	27.13	W	W	27.13	15.16	--	W
Michigan	25.77	15.39	67.0%	25.77	15.39	--	--
Ohio	26.48	20.45	29.0%	26.31	16.45	26.50	20.95
Wisconsin	28.63	W	W	28.63	15.86	--	W
West North Central	25.66	W	W	25.66	15.46	--	W
Iowa	26.04	15.77	65.0%	26.04	15.77	--	--
Kansas	25.16	14.84	70.0%	25.16	14.84	--	--
Minnesota	26.32	W	W	26.32	15.15	--	W
Missouri	25.85	15.56	66.0%	25.85	15.56	--	--
Nebraska	24.94	16.69	49.0%	24.94	16.69	--	--
North Dakota	25.07	16.06	56.0%	25.07	16.06	--	--
South Dakota	23.89	16.26	47.0%	23.89	16.26	--	--
South Atlantic	25.93	15.48	68.0%	25.74	15.84	26.68	13.93
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	26.12	15.97	W	W
Georgia	W	W	W	29.74	17.63	W	W
Maryland	27.70	15.07	84.0%	--	--	27.70	15.07
North Carolina	25.11	15.85	58.0%	25.11	15.85	--	--
South Carolina	W	W	W	28.65	15.50	W	W
Virginia	W	W	W	19.64	13.84	W	W
West Virginia	W	W	W	25.97	16.41	W	W
East South Central	W	W	W	26.75	16.00	W	W
Alabama	W	W	W	27.27	15.38	W	W
Kentucky	25.95	15.69	65.0%	25.95	15.69	--	--
Mississippi	23.88	15.81	51.0%	23.88	15.81	--	--
Tennessee	27.24	16.61	64.0%	27.24	16.61	--	--
West South Central	25.46	15.96	60.0%	25.03	15.04	26.67	16.23
Arkansas	W	W	W	25.50	15.76	W	W
Louisiana	20.41	14.76	38.0%	20.41	14.76	--	--
Oklahoma	24.88	15.87	57.0%	24.88	15.87	--	--
Texas	W	W	W	25.23	13.98	W	W
Mountain	28.02	18.30	53.0%	28.03	18.38	27.84	17.41
Arizona	27.87	17.38	60.0%	27.87	17.38	--	--
Colorado	26.00	18.51	40.0%	26.00	18.51	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	23.36	15.86	W	W
Nevada	W	W	W	26.85	18.57	W	W
New Mexico	30.80	19.94	54.0%	30.80	19.94	--	--
Utah	W	W	W	28.82	18.84	W	W
Wyoming	28.11	18.27	54.0%	28.11	18.27	--	--
Pacific Contiguous	W	W	W	23.43	16.50	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	23.43	16.50	W	W
Pacific Noncontiguous	W	W	W	24.16	13.92	W	W
Alaska	30.16	18.32	65.0%	30.16	18.32	--	--
Hawaii	W	W	W	24.14	13.91	W	W
U.S. Total	23.88	14.76	62.0%	24.41	14.53	22.66	15.38

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 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, December 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.55	1.31	18.0%	1.55	1.31	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.21	1.20	0.8%	1.21	1.20	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	6.45	2.00	223.0%	6.45	2.00	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	5.89	--	--	5.89	--	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	5.89	--	--	5.89	--	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	4.86	4.89	-0.6%	4.86	4.89	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	4.86	4.89	-0.6%	4.86	4.89	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	4.19	3.89	7.7%	4.19	3.89	--	--

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 See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Petroleum Coke includes petroleum coke-derived synthesis gas.
 See the Technical Notes for fuel conversion factors.

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

**Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) December 2022 and 2021
(Dollars per MMBtu)**

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.46	1.31	11.0%	1.46	1.31	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.16	1.20	-3.3%	1.16	1.20	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	4.38	1.90	131.0%	4.38	1.90	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	7.01	4.67	50.0%	7.01	4.67	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	7.01	4.67	50.0%	7.01	4.67	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	3.85	--	--	3.85	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	3.85	--	--	3.85	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	5.25	3.43	53.0%	5.25	3.43	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	5.25	3.43	53.0%	5.25	3.43	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	4.35	3.16	38.0%	4.35	3.16	--	--

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 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, December 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022	December 2021	Percentage Change	December 2022	December 2021	December 2022	December 2021
New England	W	9.92	W	--	13.60	W	9.91
Connecticut	W	8.94	W	--	--	W	8.94
Maine	W	W	W	--	--	W	W
Massachusetts	22.13	13.45	65.0%	--	13.60	22.13	13.45
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	8.77	3.90	125.0%	10.93	5.87	8.60	3.72
New Jersey	11.34	3.45	229.0%	--	--	11.34	3.45
New York	10.22	5.01	104.0%	10.93	5.87	9.96	4.60
Pennsylvania	7.52	3.52	114.0%	--	--	7.52	3.52
East North Central	6.12	3.87	58.0%	6.68	4.20	5.81	3.71
Illinois	7.64	3.70	106.0%	12.01	3.98	7.20	3.64
Indiana	6.19	4.00	55.0%	6.83	4.63	5.75	3.51
Michigan	6.25	3.88	61.0%	6.73	4.06	5.95	3.80
Ohio	5.65	3.78	49.0%	6.96	3.97	5.40	3.75
Wisconsin	6.09	4.12	48.0%	6.09	4.12	--	--
West North Central	W	W	W	7.26	6.40	W	W
Iowa	5.62	4.16	35.0%	5.62	4.16	--	--
Kansas	9.09	5.75	58.0%	9.09	5.75	--	--
Minnesota	W	W	W	9.04	4.60	W	W
Missouri	W	W	W	8.31	21.26	W	W
Nebraska	8.71	6.02	45.0%	8.71	6.02	--	--
North Dakota	12.50	2.70	363.0%	12.50	2.70	--	--
South Dakota	6.32	2.35	169.0%	6.32	2.35	--	--
South Atlantic	9.42	5.65	67.0%	9.62	5.86	7.95	4.04
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	8.30	6.34	W	W
Georgia	W	W	W	9.51	4.54	W	W
Maryland	W	5.11	W	14.69	4.70	W	5.26
North Carolina	W	6.23	W	12.44	6.64	W	3.72
South Carolina	10.44	5.08	106.0%	10.44	5.08	--	--
Virginia	8.52	4.79	78.0%	9.79	5.23	5.28	3.32
West Virginia	W	W	W	12.07	3.38	W	W
East South Central	6.62	4.40	50.0%	6.67	4.36	6.43	4.50
Alabama	W	W	W	7.81	4.94	W	W
Kentucky	W	W	W	7.30	4.51	W	W
Mississippi	W	W	W	6.15	4.00	W	W
Tennessee	6.10	4.63	32.0%	6.10	4.63	--	--
West South Central	5.64	7.99	-29.0%	6.12	5.74	5.19	9.57
Arkansas	W	W	W	6.75	5.59	W	W
Louisiana	W	W	W	6.50	4.16	W	W
Oklahoma	W	W	W	6.47	9.53	W	W
Texas	5.23	8.96	-42.0%	5.43	5.37	5.15	9.95
Mountain	14.21	W	W	12.58	5.86	26.16	W
Arizona	18.01	W	W	13.00	5.88	30.84	W
Colorado	7.87	W	W	7.82	5.30	8.15	W
Idaho	29.67	6.15	382.0%	29.67	6.15	--	--
Montana	4.71	W	W	4.71	3.33	--	W
Nevada	15.81	6.21	155.0%	15.81	6.21	--	--
New Mexico	8.05	4.56	77.0%	8.05	4.56	--	--
Utah	13.44	6.27	114.0%	13.44	6.27	--	--
Wyoming	12.61	W	W	12.61	8.01	--	W
Pacific Contiguous	22.06	5.91	273.0%	17.83	6.03	25.83	5.74
California	26.15	6.61	296.0%	21.89	6.79	29.24	6.40
Oregon	W	W	W	10.46	4.69	W	W
Washington	W	W	W	14.00	5.56	W	W
Pacific Noncontiguous	5.95	6.28	-5.3%	5.95	6.28	--	--
Alaska	5.95	6.28	-5.3%	5.95	6.28	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	9.20	5.72	61.0%	9.12	5.57	9.32	5.90

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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) December 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2022 YTD	December 2021 YTD	Percentage Change	December 2022 YTD	December 2021 YTD	December 2022 YTD	December 2021 YTD
New England	W	W	W	8.73	4.38	W	W
Connecticut	8.84	4.69	88.0%	--	--	8.84	4.69
Maine	W	W	W	--	--	W	W
Massachusetts	W	5.75	W	8.73	4.38	W	5.76
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	4.37	W	--	--	W	4.37
Vermont	--	--	--	--	--	--	--
Middle Atlantic	6.57	3.54	86.0%	7.38	4.16	6.50	3.48
New Jersey	6.91	3.63	90.0%	--	--	6.91	3.63
New York	7.35	3.95	86.0%	7.38	4.16	7.33	3.85
Pennsylvania	6.08	3.31	84.0%	--	--	6.08	3.31
East North Central	6.20	3.90	59.0%	6.39	4.05	6.09	3.82
Illinois	6.69	4.18	60.0%	7.20	4.65	6.60	4.12
Indiana	6.19	4.16	49.0%	6.47	4.35	6.00	4.01
Michigan	6.54	4.02	63.0%	7.16	4.45	6.16	3.78
Ohio	6.00	3.67	63.0%	6.20	3.74	5.96	3.66
Wisconsin	5.78	3.70	56.0%	5.78	3.70	--	--
West North Central	W	W	W	11.48	6.01	W	W
Iowa	5.58	4.10	36.0%	5.58	4.10	--	--
Kansas	6.92	9.66	-28.0%	6.92	9.66	--	--
Minnesota	W	W	W	7.64	4.46	W	W
Missouri	W	W	W	27.66	9.72	W	W
Nebraska	7.90	12.59	-37.0%	7.90	12.59	--	--
North Dakota	9.25	2.83	227.0%	9.25	2.83	--	--
South Dakota	7.13	3.41	109.0%	7.13	3.41	--	--
South Atlantic	7.86	4.61	70.0%	7.93	4.71	7.29	3.93
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	5.07	W	8.34	5.08	W	4.75
Georgia	W	W	W	7.89	4.25	W	W
Maryland	8.26	4.35	90.0%	7.79	4.52	8.45	4.29
North Carolina	W	4.40	W	7.37	4.52	W	3.80
South Carolina	7.10	4.22	68.0%	7.10	4.22	--	--
Virginia	7.00	3.93	78.0%	7.31	4.12	6.06	3.38
West Virginia	W	W	W	6.75	4.16	W	W
East South Central	6.74	4.04	67.0%	6.60	3.98	7.23	4.27
Alabama	W	W	W	7.70	4.28	W	W
Kentucky	W	W	W	6.46	4.16	W	W
Mississippi	W	W	W	6.40	3.90	W	W
Tennessee	5.84	3.64	60.0%	5.84	3.64	--	--
West South Central	6.57	8.48	-23.0%	6.83	7.98	6.34	8.92
Arkansas	W	W	W	6.62	6.99	W	W
Louisiana	W	W	W	7.02	5.28	W	W
Oklahoma	W	W	W	7.11	12.41	W	W
Texas	6.40	8.98	-29.0%	6.61	8.26	6.33	9.24
Mountain	7.88	5.09	55.0%	7.73	5.11	9.31	4.98
Arizona	8.42	W	W	8.03	4.78	10.02	W
Colorado	W	W	W	7.00	7.45	W	W
Idaho	10.13	4.31	135.0%	10.13	4.31	--	--
Montana	4.13	W	W	4.13	3.31	--	W
Nevada	7.93	4.50	76.0%	7.93	4.50	--	--
New Mexico	6.50	5.40	20.0%	6.50	5.40	--	--
Utah	8.17	4.45	84.0%	8.17	4.45	--	--
Wyoming	W	W	W	8.17	5.84	W	W
Pacific Contiguous	8.93	4.79	86.0%	8.45	4.73	9.38	4.85
California	9.89	5.42	82.0%	9.47	5.58	10.23	5.27
Oregon	W	W	W	5.95	3.49	W	W
Washington	W	W	W	6.90	4.04	W	W
Pacific Noncontiguous	5.59	6.25	-11.0%	5.59	6.25	--	--
Alaska	5.59	6.25	-11.0%	5.59	6.25	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	7.27	5.25	38.0%	7.52	5.21	6.93	5.30

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:
 See Glossary for definitions. Values for 2021 are final. Values for 2022 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, December 2022

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	94	2.69	7.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	6	0.96	6.6	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	88	2.78	7.7	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	646	2.48	8.7	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	646	2.48	8.7	0	--	--	0	--	--
East North Central	4,471	3.07	10.4	3,808	0.24	4.6	0	--	--
Illinois	791	3.36	19.1	1,476	0.22	4.6	0	--	--
Indiana	2,130	2.86	9.0	63	0.27	4.8	0	--	--
Michigan	239	2.22	7.8	1,364	0.26	4.5	0	--	--
Ohio	1,264	3.46	9.2	0	--	--	0	--	--
Wisconsin	47	2.50	7.7	905	0.26	4.9	0	--	--
West North Central	60	3.13	8.7	5,453	0.26	5.0	1,827	0.72	9.4
Iowa	27	3.35	8.5	928	0.25	4.9	0	--	--
Kansas	0	--	--	836	0.29	5.7	0	--	--
Minnesota	0	--	--	568	0.30	5.3	0	--	--
Missouri	33	2.95	8.9	2,113	0.24	4.7	0	--	--
Nebraska	0	--	--	993	0.25	4.8	0	--	--
North Dakota	0	--	--	0	--	--	1,827	0.72	9.4
South Dakota	0	--	--	15	0.32	4.9	0	--	--
South Atlantic	4,238	2.38	10.0	417	0.34	5.6	0	--	--
Delaware	48	2.39	7.8	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	639	2.63	8.6	0	--	--	0	--	--
Georgia	322	2.00	8.7	417	0.34	5.6	0	--	--
Maryland	127	1.94	15.5	0	--	--	0	--	--
North Carolina	516	1.71	9.3	0	--	--	0	--	--
South Carolina	611	1.94	9.3	0	--	--	0	--	--
Virginia	202	1.30	16.0	0	--	--	0	--	--
West Virginia	1,773	2.85	10.3	0	--	--	0	--	--
East South Central	2,296	2.72	9.8	1,574	0.27	5.0	303	0.60	15.0
Alabama	207	1.14	11.1	844	0.28	5.1	0	--	--
Kentucky	1,814	2.95	9.8	608	0.24	4.9	0	--	--
Mississippi	23	1.04	11.8	64	0.37	5.5	303	0.60	15.0
Tennessee	252	2.36	8.6	58	0.22	4.7	0	--	--
West South Central	26	2.59	8.7	4,600	0.29	5.2	1,618	1.09	17.7
Arkansas	3	0.73	10.0	867	0.22	4.5	0	--	--
Louisiana	23	2.90	8.5	328	0.24	4.8	0	--	--
Oklahoma	0	--	--	374	0.25	5.0	0	--	--
Texas	0	--	--	3,031	0.32	5.4	1,618	1.09	17.7
Mountain	845	0.54	9.9	3,989	0.57	9.5	0	--	--
Arizona	0	--	--	790	0.67	10.8	0	--	--
Colorado	76	0.44	12.3	674	0.31	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	571	0.75	9.2	0	--	--
Nevada	24	0.40	8.8	49	0.35	5.5	0	--	--
New Mexico	0	--	--	527	0.90	19.1	0	--	--
Utah	745	0.56	9.7	23	0.95	9.7	0	--	--
Wyoming	0	--	--	1,354	0.42	6.9	0	--	--
Pacific Contiguous	56	0.39	8.4	198	0.39	8.0	0	--	--
California	56	0.39	8.4	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	198	0.39	8.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	33	0.13	5.9
Alaska	0	--	--	0	--	--	33	0.13	5.9
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,733	2.56	10.0	20,038	0.33	5.9	3,780	0.86	13.3

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 2022 are preliminary. Values for 2021 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 Utilities by State, December 2022

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	2,439	2.81	8.9	2,667	0.25	4.7	0	--	--
Illinois	73	2.75	8.9	335	0.21	4.9	0	--	--
Indiana	1,950	2.83	9.0	63	0.27	4.8	0	--	--
Michigan	213	2.35	7.8	1,364	0.26	4.5	0	--	--
Ohio	156	3.26	9.3	0	--	--	0	--	--
Wisconsin	47	2.50	7.7	905	0.26	4.9	0	--	--
West North Central	32	2.95	8.9	5,193	0.26	5.0	1,827	0.72	9.4
Iowa	0	--	--	747	0.26	5.0	0	--	--
Kansas	0	--	--	836	0.29	5.7	0	--	--
Minnesota	0	--	--	568	0.30	5.3	0	--	--
Missouri	32	2.95	8.9	2,113	0.24	4.7	0	--	--
Nebraska	0	--	--	914	0.25	4.8	0	--	--
North Dakota	0	--	--	0	--	--	1,827	0.72	9.4
South Dakota	0	--	--	15	0.32	4.9	0	--	--
South Atlantic	3,656	2.35	9.9	417	0.34	5.6	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	639	2.63	8.6	0	--	--	0	--	--
Georgia	313	2.03	8.8	417	0.34	5.6	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	495	1.75	9.3	0	--	--	0	--	--
South Carolina	583	1.99	9.2	0	--	--	0	--	--
Virginia	184	1.29	17.0	0	--	--	0	--	--
West Virginia	1,442	2.76	10.4	0	--	--	0	--	--
East South Central	2,261	2.75	9.8	1,574	0.27	5.0	0	--	--
Alabama	207	1.14	11.1	844	0.28	5.1	0	--	--
Kentucky	1,814	2.95	9.8	608	0.24	4.9	0	--	--
Mississippi	23	1.04	11.8	64	0.37	5.5	0	--	--
Tennessee	217	2.64	8.8	58	0.22	4.7	0	--	--
West South Central	23	2.90	8.5	2,394	0.26	4.9	599	1.37	21.8
Arkansas	0	--	--	658	0.22	4.5	0	--	--
Louisiana	23	2.90	8.5	215	0.22	4.7	0	--	--
Oklahoma	0	--	--	374	0.25	5.0	0	--	--
Texas	0	--	--	1,147	0.29	5.2	599	1.37	21.8
Mountain	845	0.54	9.9	3,325	0.54	9.7	0	--	--
Arizona	0	--	--	790	0.67	10.8	0	--	--
Colorado	76	0.44	12.3	674	0.31	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	24	0.40	8.8	0	--	--	0	--	--
New Mexico	0	--	--	527	0.90	19.1	0	--	--
Utah	745	0.56	9.7	23	0.95	9.7	0	--	--
Wyoming	0	--	--	1,310	0.42	6.9	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	33	0.13	5.9
Alaska	0	--	--	0	--	--	33	0.13	5.9
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	9,256	2.41	9.6	15,569	0.32	6.0	2,458	0.85	12.1

Displayed values of zero may represent small values that round to zero.

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

W = Withheld to avoid disclosure of individual company data.

Notes:

Bituminous coal includes anthracite coal and coal-derived synthesis gas.

See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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, December 2022

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	94	2.69	7.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	6	0.96	6.6	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	88	2.78	7.7	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	623	2.47	8.7	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	623	2.47	8.7	0	--	--	0	--	--
East North Central	1,903	3.40	12.6	1,126	0.23	4.5	0	--	--
Illinois	588	3.41	23.5	1,126	0.23	4.5	0	--	--
Indiana	181	3.12	8.5	0	--	--	0	--	--
Michigan	26	1.09	7.7	0	--	--	0	--	--
Ohio	1,108	3.49	9.2	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	527	2.78	10.8	0	--	--	0	--	--
Delaware	48	2.39	7.8	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	127	1.94	15.5	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	21	0.85	9.7	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	331	3.26	9.7	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	303	0.60	15.0
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	303	0.60	15.0
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	2,207	0.32	5.4	1,019	0.95	15.7
Arkansas	0	--	--	209	0.23	4.5	0	--	--
Louisiana	0	--	--	113	0.28	5.0	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	1,885	0.33	5.5	1,019	0.95	15.7
Mountain	0	--	--	665	0.70	8.7	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	571	0.75	9.2	0	--	--
Nevada	0	--	--	49	0.35	5.5	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	44	0.37	5.8	0	--	--
Pacific Contiguous	0	--	--	198	0.39	8.0	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	198	0.39	8.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	3,147	3.07	11.3	4,195	0.36	5.8	1,322	0.88	15.6

Displayed values of zero may represent small values that round to zero.

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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 2022 are preliminary. Values for 2021 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, December 2022**

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	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	1	3.02	9.3	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	1	3.02	9.3	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	1	3.02	9.3	0	--	--	0	--	--

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Notes:

Bituminous coal includes anthracite coal and coal-derived synthesis gas.

See Glossary for definitions. Values for 2022 are preliminary. Values for 2021 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, December 2022

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	23	2.57	8.3	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	23	2.57	8.3	0	--	--	0	--	--
East North Central	130	3.50	8.5	15	0.22	4.4	0	--	--
Illinois	130	3.50	8.5	15	0.22	4.4	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	27	3.35	8.5	259	0.21	4.4	0	--	--
Iowa	27	3.35	8.5	181	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	79	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	56	1.00	7.5	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	9	0.90	5.6	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	22	0.86	8.2	0	--	--	0	--	--
South Carolina	7	0.54	8.4	0	--	--	0	--	--
Virginia	18	1.41	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	35	0.77	7.7	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	35	0.77	7.7	0	--	--	0	--	--
West South Central	3	0.73	10.0	0	--	--	0	--	--
Arkansas	3	0.73	10.0	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	56	0.39	8.4	0	--	--	0	--	--
California	56	0.39	8.4	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	331	2.07	8.2	275	0.21	4.4	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 2022 are preliminary. Values for 2021 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, 2012 - December 2022 (Thousand Megawatthours)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	1,464,605	1,287,440	959,082	6,548	3,717,674
2021	1,470,487	1,328,439	1,000,613	6,334	3,805,874
2022	1,521,886	1,373,031	1,007,533	6,602	3,909,053
Year 2020					
January	124,442	109,812	80,609	670	315,533
February	112,123	103,015	78,903	619	294,659
March	104,255	104,110	80,931	598	289,894
April	97,759	91,406	72,791	444	262,401
May	105,681	94,299	74,273	454	274,707
June	131,538	109,593	78,445	480	320,056
July	167,108	127,107	84,758	556	379,530
August	158,939	123,057	86,366	522	368,885
Sept	127,824	113,220	80,977	534	322,555
October	105,514	108,468	82,371	523	296,877
November	99,661	97,897	79,167	525	277,249
December	129,761	105,456	79,492	622	315,330
Year 2021					
January	136,682	104,498	79,750	567	321,496
February	126,550	98,356	74,245	548	299,698
March	114,374	102,877	77,552	542	295,345
April	93,891	98,721	79,661	506	272,779
May	101,160	104,711	83,703	487	290,061
June	132,153	119,053	86,702	508	338,415
July	154,495	127,856	91,052	546	373,948
August	157,792	131,111	91,576	560	381,039
Sept	131,111	118,989	85,817	527	336,444
October	103,992	112,246	85,356	533	302,127
November	100,591	103,506	82,545	492	287,134
December	117,696	106,516	82,655	521	307,387
Year 2022					
January	141,057	112,289	83,317	565	337,227
February	126,320	101,655	75,952	565	304,492
March	112,391	107,850	82,955	579	303,775
April	98,206	103,820	81,212	513	283,751
May	111,044	111,361	85,092	529	308,025
June	137,481	120,012	88,231	513	346,236
July	165,715	132,308	89,169	566	387,757
August	161,645	134,164	91,588	535	387,932
Sept	130,379	122,533	85,141	557	338,611
October	100,724	110,297	84,052	540	295,614
November	103,945	104,961	80,427	548	289,880
December	132,982	111,783	80,396	592	325,753
Year to Date					
2020	1,464,605	1,287,440	959,082	6,548	3,717,674
2021	1,470,487	1,328,439	1,000,613	6,334	3,805,874
2022	1,521,886	1,373,031	1,007,533	6,602	3,909,053
Rolling 12 Months Ending in December					
2021	1,470,487	1,328,439	1,000,613	6,334	3,805,874
2022	1,521,886	1,373,031	1,007,533	6,602	3,909,053

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 2021 and prior years are final. Values for 2022 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, 2012 - December 2022 (Million Dollars)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	192,663	136,372	63,956	648	393,639
2021	200,834	149,008	71,835	646	422,323
2022	230,174	172,257	85,171	770	488,371
Year 2020					
January	15,876	11,184	5,132	65	32,256
February	14,371	10,615	5,078	59	30,123
March	13,596	10,763	5,173	58	29,589
April	12,943	9,480	4,654	43	27,119
May	13,841	9,812	4,859	42	28,554
June	17,389	11,938	5,447	51	34,824
July	22,067	13,785	6,070	57	41,979
August	21,077	13,412	6,105	54	40,648
Sept	17,247	12,473	5,670	55	35,445
October	14,409	11,626	5,536	52	31,623
November	13,269	10,310	5,135	52	28,766
December	16,578	10,976	5,098	61	32,713
Year 2021					
January	17,254	10,731	5,037	54	33,076
February	16,469	11,175	5,755	54	33,454
March	15,146	11,397	5,415	53	32,011
April	12,887	10,729	5,340	51	29,007
May	14,017	11,369	5,564	49	30,998
June	18,273	13,491	6,263	53	38,080
July	21,364	14,653	6,758	56	42,832
August	21,960	15,104	6,907	58	44,028
Sept	18,544	13,868	6,530	59	39,001
October	14,619	12,927	6,349	55	33,950
November	14,150	11,688	6,084	51	31,973
December	16,150	11,876	5,832	55	33,914
Year 2022					
January	19,351	12,753	6,081	62	38,248
February	17,472	11,986	5,675	64	35,197
March	16,275	12,691	6,220	63	35,249
April	14,446	12,384	6,367	58	33,254
May	16,625	13,528	7,121	57	37,332
June	21,172	15,483	7,903	61	44,620
July	25,536	17,395	8,392	70	51,394
August	25,758	18,157	8,708	69	52,691
Sept	21,269	16,480	7,852	70	45,670
October	16,125	14,394	7,234	64	37,817
November	16,256	13,124	6,680	64	36,123
December	19,889	13,881	6,937	68	40,776
Year to Date					
2020	192,663	136,372	63,956	648	393,639
2021	200,834	149,008	71,835	646	422,323
2022	230,174	172,257	85,171	770	488,371
Rolling 12 Months Ending in December					
2021	200,834	149,008	71,835	646	422,323
2022	230,174	172,257	85,171	770	488,371

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 2021 and prior years are final. Values for 2022 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, 2012 - December 2022 (Cents per Kilowatthour)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	13.15	10.59	6.67	9.90	10.59
2021	13.66	11.22	7.18	10.20	11.10
2022	15.12	12.55	8.45	11.66	12.49
Year 2020					
January	12.76	10.18	6.37	9.64	10.22
February	12.82	10.30	6.44	9.45	10.22
March	13.04	10.34	6.39	9.67	10.21
April	13.24	10.37	6.39	9.72	10.34
May	13.10	10.40	6.54	9.30	10.39
June	13.22	10.89	6.94	10.55	10.88
July	13.21	10.84	7.16	10.27	11.06
August	13.26	10.90	7.07	10.29	11.02
Sept	13.49	11.02	7.00	10.37	10.99
October	13.66	10.72	6.72	9.87	10.65
November	13.31	10.53	6.49	9.95	10.38
December	12.78	10.41	6.41	9.86	10.37
Year 2021					
January	12.62	10.27	6.32	9.48	10.29
February	13.01	11.36	7.75	9.92	11.16
March	13.24	11.08	6.98	9.70	10.84
April	13.73	10.87	6.70	10.03	10.63
May	13.86	10.86	6.65	10.03	10.69
June	13.83	11.33	7.22	10.42	11.25
July	13.83	11.46	7.42	10.29	11.45
August	13.92	11.52	7.54	10.27	11.55
Sept	14.14	11.65	7.61	11.15	11.59
October	14.06	11.52	7.44	10.25	11.24
November	14.07	11.29	7.37	10.47	11.14
December	13.72	11.15	7.06	10.49	11.03
Year 2022					
January	13.72	11.36	7.30	10.91	11.34
February	13.83	11.79	7.47	11.27	11.56
March	14.48	11.77	7.50	10.85	11.60
April	14.71	11.93	7.84	11.26	11.72
May	14.97	12.15	8.37	10.80	12.12
June	15.40	12.90	8.96	11.94	12.89
July	15.41	13.15	9.41	12.37	13.25
August	15.93	13.53	9.51	12.94	13.58
Sept	16.31	13.45	9.22	12.60	13.49
October	16.01	13.05	8.61	11.91	12.79
November	15.64	12.50	8.31	11.61	12.46
December	14.96	12.42	8.63	11.52	12.52
Year to Date					
2020	13.15	10.59	6.67	9.90	10.59
2021	13.66	11.22	7.18	10.20	11.10
2022	15.12	12.55	8.45	11.66	12.49
Rolling 12 Months Ending in December					
2021	13.66	11.22	7.18	10.20	11.10
2022	15.12	12.55	8.45	11.66	12.49

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 2021 and prior years are final. Values for 2022 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, December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	4,180	4,191	4,044	3,887	1,257	1,260	46	45	9,526	9,384
Connecticut	1,219	1,176	928	913	198	213	18	14	2,363	2,316
Maine	442	496	337	356	218	206	0	0	996	1,058
Massachusetts	1,630	1,631	1,973	1,836	516	517	26	30	4,145	4,014
New Hampshire	420	450	344	339	155	152	0	0	919	941
Rhode Island	257	233	303	288	53	51	2	2	616	573
Vermont	211	205	160	157	117	121	0	0	488	483
Middle Atlantic	12,220	11,441	12,307	11,714	6,145	6,150	291	256	30,963	29,561
New Jersey	2,457	2,242	3,040	2,931	546	543	18	20	6,061	5,736
New York	4,240	4,224	6,127	5,770	1,335	1,406	228	211	11,929	11,611
Pennsylvania	5,523	4,975	3,141	3,013	4,264	4,201	45	25	12,973	12,214
East North Central	17,707	16,058	14,735	14,128	15,182	15,025	49	39	47,672	45,250
Illinois	4,148	3,735	4,006	3,873	3,429	3,398	44	33	11,628	11,040
Indiana	3,228	2,786	1,892	1,748	3,299	3,452	1	2	8,419	7,988
Michigan	3,128	3,028	2,979	2,966	2,291	2,278	0	0	8,399	8,272
Ohio	4,987	4,478	3,898	3,613	4,284	3,980	3	3	13,172	12,075
Wisconsin	2,215	2,032	1,960	1,927	1,878	1,917	0	0	6,054	5,875
West North Central	10,941	9,236	8,697	8,165	8,067	8,230	4	5	27,709	25,636
Iowa	1,595	1,315	1,112	1,038	2,151	2,148	0	0	4,858	4,502
Kansas	1,219	992	1,248	1,166	923	943	0	0	3,390	3,101
Minnesota	2,318	2,123	1,914	1,871	1,652	1,787	2	2	5,885	5,782
Missouri	3,501	2,823	2,469	2,247	1,056	1,050	2	2	7,028	6,121
Nebraska	1,110	936	827	785	978	1,045	0	0	2,916	2,767
North Dakota	635	563	708	651	1,071	999	0	0	2,414	2,214
South Dakota	562	483	419	407	235	259	0	0	1,217	1,149
South Atlantic	34,402	29,453	26,634	24,549	11,754	11,695	101	80	72,891	65,777
Delaware	468	427	355	341	165	175	0	0	987	943
District of Columbia	198	201	575	587	15	17	26	18	814	823
Florida	10,204	9,233	7,899	7,605	1,667	1,513	6	7	19,776	18,358
Georgia	5,498	4,426	3,840	3,516	2,742	2,632	12	13	12,093	10,587
Maryland	2,813	2,412	2,330	2,216	292	297	43	31	5,477	4,957
North Carolina	6,125	5,043	3,981	3,710	1,998	2,167	1	1	12,105	10,921
South Carolina	2,919	2,459	1,636	1,548	2,184	2,287	0	0	6,739	6,294
Virginia	4,907	4,186	5,368	4,476	1,511	1,410	13	10	11,799	10,082
West Virginia	1,270	1,065	649	550	1,181	1,197	0	0	3,100	2,812
East South Central	10,670	9,290	7,074	6,746	7,645	8,230	0	0	25,389	24,266
Alabama	2,898	2,386	1,757	1,655	2,450	2,588	0	0	7,105	6,628
Kentucky	2,541	2,155	1,541	1,414	2,158	2,494	0	0	6,240	6,063
Mississippi	1,532	1,320	1,062	1,018	1,266	1,325	0	0	3,860	3,662
Tennessee	3,699	3,430	2,714	2,660	1,770	1,823	0	0	8,184	7,913
West South Central	18,948	15,351	16,037	15,808	16,595	18,204	15	15	51,595	49,377
Arkansas	1,650	1,390	892	876	1,441	1,467	0	0	3,983	3,733
Louisiana	2,424	2,042	1,835	1,750	3,297	3,435	1	1	7,557	7,229
Oklahoma	2,148	1,683	1,669	1,482	1,845	1,768	0	0	5,662	4,933
Texas	12,725	10,235	11,641	11,699	10,012	11,533	14	14	34,392	33,482
Mountain	9,191	8,329	8,264	7,783	6,958	6,736	14	13	24,427	22,862
Arizona	2,614	2,361	2,286	2,228	1,166	1,141	1	1	6,067	5,731
Colorado	1,827	1,663	1,789	1,645	1,280	1,206	8	8	4,904	4,522
Idaho	1,119	985	611	576	579	583	0	0	2,309	2,144
Montana	686	559	460	430	401	370	0	0	1,547	1,359
Nevada	985	966	978	905	991	996	1	1	2,954	2,868
New Mexico	639	582	723	675	969	848	0	0	2,331	2,106
Utah	972	914	1,085	1,014	731	777	4	4	2,792	2,709
Wyoming	349	298	332	310	842	814	0	0	1,523	1,422
Pacific Contiguous	14,269	13,872	13,525	13,264	6,391	6,729	73	69	34,258	33,934
California	7,385	7,383	9,408	9,184	3,378	3,456	61	54	20,232	20,077
Oregon	2,348	2,234	1,473	1,508	1,293	1,503	2	2	5,116	5,247
Washington	4,535	4,255	2,645	2,572	1,721	1,770	10	12	8,910	8,609
Pacific Noncontiguous	455	474	465	471	403	396	0	0	1,324	1,341
Alaska	225	224	238	240	118	120	0	0	580	584
Hawaii	231	250	228	231	285	276	0	0	744	757
U.S. Total	132,982	117,696	111,783	106,516	80,396	82,655	592	521	325,753	307,387

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 2021 are final. Values for 2022 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 December 2022 and 2021 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2022 YTD	December 2021 YTD								
New England	48,411	48,598	49,430	49,061	15,664	15,662	492	478	113,998	113,799
Connecticut	13,172	13,092	11,524	11,701	2,811	2,799	170	145	27,678	27,738
Maine	5,080	5,062	4,116	3,949	2,553	2,574	0	0	11,748	11,585
Massachusetts	19,996	20,305	24,087	23,832	6,365	6,346	299	315	50,747	50,798
New Hampshire	4,807	4,832	4,084	4,107	1,925	1,929	0	0	10,816	10,867
Rhode Island	3,168	3,132	3,707	3,605	639	644	23	18	7,538	7,398
Vermont	2,188	2,174	1,912	1,867	1,370	1,371	0	0	5,471	5,413
Middle Atlantic	138,911	138,192	145,314	143,046	73,337	73,484	3,382	3,112	360,944	357,834
New Jersey	30,066	30,090	36,689	36,137	6,535	6,593	253	249	73,543	73,070
New York	52,389	52,157	71,574	69,920	15,946	16,891	2,600	2,455	142,509	141,424
Pennsylvania	56,456	55,945	37,050	36,988	50,856	50,000	530	407	144,891	143,340
East North Central	192,479	192,188	177,107	174,951	187,065	184,734	507	513	557,159	552,387
Illinois	46,654	46,813	47,184	46,923	41,904	41,498	455	455	136,196	135,689
Indiana	34,236	33,472	23,363	22,921	42,684	43,329	13	18	100,295	99,740
Michigan	35,066	35,868	37,129	36,861	28,171	27,081	4	3	100,370	99,813
Ohio	53,515	53,171	46,009	44,980	50,630	49,529	34	37	150,188	147,718
Wisconsin	23,009	22,864	23,423	23,266	23,676	23,296	1	1	70,110	69,427
West North Central	112,328	107,760	102,392	99,433	100,687	98,747	41	43	315,449	305,983
Iowa	15,428	14,652	12,457	12,135	26,657	26,106	0	0	54,542	52,893
Kansas	14,537	13,769	15,835	15,356	11,765	11,366	0	0	42,136	40,492
Minnesota	23,679	23,246	22,500	22,093	20,234	21,227	20	23	66,433	66,589
Missouri	37,277	35,668	29,618	28,987	13,427	13,087	21	21	80,344	77,763
Nebraska	10,808	10,492	9,531	9,260	12,920	12,588	0	0	33,260	32,341
North Dakota	5,287	4,888	7,534	6,808	12,486	11,166	0	0	25,307	22,863
South Dakota	5,313	5,044	4,919	4,792	3,196	3,206	0	0	13,428	13,041
South Atlantic	391,438	374,746	329,956	313,129	148,920	144,329	1,013	1,098	871,326	833,301
Delaware	5,230	5,170	4,309	4,196	2,051	2,113	0	0	11,590	11,480
District of Columbia	2,519	2,528	7,279	7,044	182	240	251	272	10,231	10,083
Florida	139,478	130,412	100,657	93,965	19,307	17,113	75	72	259,516	241,562
Georgia	62,133	58,685	47,273	45,777	33,656	32,759	144	143	143,206	137,364
Maryland	28,104	27,965	27,510	27,437	3,600	3,480	399	422	59,613	59,304
North Carolina	62,987	60,915	49,425	47,715	28,036	27,049	15	14	140,463	135,693
South Carolina	32,737	31,386	21,869	21,114	29,001	27,292	0	0	83,607	79,792
Virginia	47,109	46,634	64,356	58,724	18,513	19,712	130	175	130,108	125,245
West Virginia	11,141	11,051	7,277	7,156	14,574	14,571	0	0	32,993	32,778
East South Central	123,819	119,430	91,291	89,070	99,523	99,239	0	0	314,633	307,739
Alabama	33,377	31,585	22,457	21,844	31,702	32,156	0	0	87,535	85,585
Kentucky	27,132	26,434	19,189	18,686	28,798	29,397	0	0	75,118	74,517
Mississippi	19,384	18,570	14,086	13,676	16,189	15,769	0	0	49,660	48,015
Tennessee	43,926	42,840	35,559	34,863	22,834	21,917	0	0	102,319	99,621
West South Central	248,260	228,147	208,917	201,819	207,573	209,480	190	190	664,941	639,636
Arkansas	19,369	18,918	11,794	11,517	18,236	18,228	0	0	49,399	48,663
Louisiana	31,803	30,408	23,656	22,460	40,494	37,942	10	9	95,962	90,819
Oklahoma	25,430	23,746	21,390	19,999	22,485	20,780	0	0	69,305	64,525
Texas	171,658	155,075	152,078	147,843	126,358	132,530	180	180	450,274	435,628
Mountain	110,715	107,925	102,589	98,680	86,492	83,947	155	153	299,950	290,707
Arizona	38,315	37,130	31,247	29,990	14,161	14,089	10	11	83,733	81,220
Colorado	20,834	20,625	20,908	20,584	15,474	15,053	91	89	57,307	56,351
Idaho	9,869	9,301	6,790	6,600	9,371	9,384	0	0	26,030	25,286
Montana	5,865	5,559	5,044	4,906	4,658	4,496	0	0	15,567	14,962
Nevada	14,308	14,373	13,102	12,294	12,666	12,360	7	5	40,083	39,032
New Mexico	7,318	7,088	9,115	8,656	11,120	9,650	0	0	27,553	25,394
Utah	11,186	10,950	12,755	12,207	9,109	9,472	46	49	33,096	32,678
Wyoming	3,020	2,897	3,628	3,443	9,933	9,444	0	0	16,581	15,785
Pacific Contiguous	150,732	148,591	160,665	153,908	83,439	86,338	822	747	395,659	389,584
California	90,415	90,284	114,696	108,762	46,148	47,583	685	621	251,944	247,250
Oregon	20,734	20,285	16,717	16,509	15,957	17,319	23	23	53,430	54,135
Washington	39,583	38,021	29,253	28,637	21,334	21,436	114	104	90,284	88,199
Pacific Noncontiguous	4,793	4,909	5,370	5,343	4,834	4,654	0	0	14,997	14,906
Alaska	2,044	2,084	2,571	2,559	1,388	1,327	0	0	6,004	5,969
Hawaii	2,749	2,825	2,799	2,785	3,446	3,327	0	0	8,993	8,936
U.S. Total	1,521,886	1,470,487	1,373,031	1,328,439	1,007,533	1,000,613	6,602	6,334	3,909,053	3,805,874

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

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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, December 2022 and 2021 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	1,130	925	778	657	206	170	6	4	2,120	1,756
Connecticut	287	246	181	151	32	21	4	2	503	420
Maine	100	89	53	49	26	22	0	0	178	160
Massachusetts	501	397	386	326	95	82	2	2	985	807
New Hampshire	130	95	74	56	27	22	0	0	231	173
Rhode Island	71	59	55	48	11	9	0	0	137	115
Vermont	43	40	28	27	14	14	0	0	85	81
Middle Atlantic	2,364	1,899	1,864	1,532	546	442	36	30	4,810	3,902
New Jersey	411	358	419	356	66	57	2	2	898	773
New York	966	826	1,078	885	104	93	31	26	2,179	1,830
Pennsylvania	987	715	367	291	375	292	3	2	1,732	1,299
East North Central	2,765	2,263	1,729	1,512	1,285	1,127	4	3	5,782	4,905
Illinois	671	500	462	378	309	261	3	2	1,446	1,142
Indiana	504	378	263	208	311	265	0	0	1,078	852
Michigan	557	522	384	363	201	176	0	0	1,142	1,062
Ohio	704	574	399	356	315	285	0	0	1,418	1,215
Wisconsin	329	288	220	206	148	139	0	0	698	634
West North Central	1,271	1,052	847	769	591	572	0	0	2,710	2,393
Iowa	179	152	101	96	127	125	0	0	406	373
Kansas	163	126	140	120	82	70	0	0	384	316
Minnesota	309	274	214	200	141	144	0	0	664	618
Missouri	387	297	225	190	83	73	0	0	695	560
Nebraska	109	95	70	67	68	68	0	0	248	230
North Dakota	61	53	56	55	72	72	0	0	189	179
South Dakota	63	56	42	40	19	20	0	0	125	116
South Atlantic	4,629	3,563	2,992	2,431	982	786	10	7	8,614	6,787
Delaware	68	54	44	33	17	14	0	0	130	101
District of Columbia	30	27	91	83	1	1	2	2	124	113
Florida	1,446	1,116	899	745	160	121	1	1	2,506	1,983
Georgia	658	534	421	376	215	169	1	1	1,295	1,081
Maryland	438	339	330	254	33	27	4	2	805	623
North Carolina	726	562	379	334	154	132	0	0	1,259	1,029
South Carolina	418	315	219	169	182	142	0	0	819	626
Virginia	684	490	542	384	136	110	1	1	1,363	985
West Virginia	162	126	67	52	83	69	0	0	312	247
East South Central	1,359	1,045	868	724	575	484	0	0	2,802	2,253
Alabama	382	231	224	147	189	132	0	0	794	509
Kentucky	330	263	188	163	172	160	0	0	690	585
Mississippi	192	156	128	113	93	83	0	0	413	352
Tennessee	455	396	329	301	121	109	0	0	904	807
West South Central	2,537	1,854	1,568	1,332	1,224	1,055	1	1	5,331	4,242
Arkansas	184	153	89	80	108	94	0	0	382	326
Louisiana	298	236	224	191	247	231	0	0	768	657
Oklahoma	241	180	168	128	132	99	0	0	541	407
Texas	1,814	1,285	1,088	933	738	632	1	1	3,641	2,851
Mountain	1,160	1,004	839	733	599	427	2	1	2,600	2,166
Arizona	328	298	233	224	106	72	0	0	667	595
Colorado	260	225	205	173	110	97	1	1	576	495
Idaho	118	102	50	44	35	32	0	0	202	178
Montana	81	62	54	45	57	23	0	0	192	131
Nevada	147	118	107	72	111	53	0	0	366	243
New Mexico	87	76	77	70	55	51	0	0	219	197
Utah	102	93	83	77	63	46	1	0	249	215
Wyoming	36	32	30	28	62	53	0	0	128	112
Pacific Contiguous	2,521	2,405	2,252	2,062	795	664	10	8	5,577	5,140
California	1,806	1,726	1,857	1,687	577	477	8	7	4,249	3,896
Oregon	260	250	140	136	96	86	0	0	496	473
Washington	455	429	255	239	122	101	1	1	832	770
Pacific Noncontiguous	153	139	144	125	134	105	0	0	431	370
Alaska	50	50	46	46	21	21	0	0	116	116
Hawaii	103	90	98	79	113	85	0	0	315	253
U.S. Total	19,889	16,150	13,881	11,876	6,937	5,832	68	55	40,776	33,914

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

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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 December 2022 and 2021 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2022 YTD	December 2021 YTD								
New England	12,012	10,454	8,999	8,015	2,412	2,004	56	42	23,478	20,516
Connecticut	3,246	2,868	2,138	1,926	419	270	30	18	5,834	5,082
Maine	1,144	862	639	509	285	246	0	0	2,068	1,617
Massachusetts	5,219	4,648	4,523	4,048	1,135	963	21	21	10,898	9,680
New Hampshire	1,226	959	764	662	292	266	0	0	2,282	1,888
Rhode Island	735	698	602	559	115	103	4	4	1,456	1,364
Vermont	442	419	333	310	166	156	0	0	940	884
Middle Atlantic	25,661	22,780	22,179	19,119	6,237	5,045	434	362	54,510	47,307
New Jersey	5,048	4,921	5,108	4,585	813	706	33	23	11,001	10,235
New York	11,547	10,162	13,068	11,238	1,219	1,072	360	311	26,194	22,783
Pennsylvania	9,066	7,698	4,002	3,295	4,205	3,268	41	28	17,315	14,289
East North Central	29,823	27,043	20,783	18,654	15,808	13,334	39	34	66,452	59,066
Illinois	7,402	6,168	5,502	4,529	3,738	3,028	34	29	16,676	13,754
Indiana	5,129	4,476	3,054	2,654	3,813	3,200	2	2	11,998	10,332
Michigan	6,225	6,290	4,631	4,537	2,353	2,083	1	0	13,210	12,910
Ohio	7,499	6,789	4,851	4,385	3,925	3,247	3	3	16,278	14,424
Wisconsin	3,566	3,320	2,743	2,548	1,980	1,777	0	0	8,289	7,645
West North Central	14,410	13,137	10,840	9,912	7,906	7,255	4	4	33,160	30,307
Iowa	2,016	1,865	1,305	1,234	1,889	1,732	0	0	5,210	4,831
Kansas	2,054	1,788	1,853	1,615	1,008	839	0	0	4,915	4,241
Minnesota	3,352	3,138	2,746	2,478	1,860	1,760	2	2	7,961	7,379
Missouri	4,583	4,072	2,907	2,658	1,087	930	2	2	8,580	7,661
Nebraska	1,182	1,128	847	816	936	914	0	0	2,964	2,858
North Dakota	576	530	679	624	867	823	0	0	2,122	1,977
South Dakota	646	617	503	486	259	257	0	0	1,409	1,360
South Atlantic	53,356	45,362	36,327	29,480	11,977	9,389	100	90	101,760	84,321
Delaware	718	647	477	398	190	161	0	0	1,385	1,206
District of Columbia	358	331	1,131	915	14	19	26	27	1,528	1,292
Florida	19,418	15,518	11,262	8,932	1,807	1,309	8	6	32,495	25,764
Georgia	8,712	7,340	5,993	4,859	3,058	2,126	13	9	17,777	14,333
Maryland	4,077	3,669	3,483	2,814	364	294	38	32	7,961	6,810
North Carolina	7,608	6,897	4,499	4,054	1,932	1,660	1	1	14,040	12,612
South Carolina	4,620	4,037	2,579	2,254	2,104	1,656	0	0	9,304	7,947
Virginia	6,370	5,580	6,143	4,575	1,526	1,280	14	15	14,052	11,450
West Virginia	1,476	1,343	760	680	982	885	0	0	3,218	2,907
East South Central	16,177	14,021	11,332	9,864	7,383	5,928	0	0	34,892	29,812
Alabama	4,802	4,092	3,014	2,587	2,483	2,034	0	0	10,299	8,713
Kentucky	3,486	3,041	2,293	2,009	2,199	1,748	0	0	7,978	6,798
Mississippi	2,453	2,146	1,703	1,479	1,131	939	0	0	5,287	4,563
Tennessee	5,435	4,742	4,322	3,790	1,570	1,207	0	0	11,327	9,738
West South Central	32,793	26,868	20,322	18,037	15,048	12,813	14	13	68,176	57,730
Arkansas	2,297	2,132	1,206	1,101	1,346	1,197	0	0	4,849	4,430
Louisiana	4,035	3,352	2,806	2,298	3,025	2,357	1	1	9,867	8,008
Oklahoma	3,197	2,612	2,223	1,740	1,562	1,143	0	0	6,982	5,495
Texas	23,264	18,772	14,087	12,898	9,115	8,115	12	12	46,478	39,797
Mountain	14,224	12,996	10,628	9,584	6,551	5,611	16	15	31,419	28,207
Arizona	4,987	4,656	3,371	3,099	1,096	956	1	1	9,455	8,712
Colorado	2,978	2,696	2,446	2,232	1,357	1,205	9	8	6,790	6,142
Idaho	1,028	945	563	521	630	600	0	0	2,221	2,065
Montana	667	624	540	517	346	280	0	0	1,553	1,421
Nevada	1,974	1,652	1,263	955	1,065	744	1	0	4,302	3,351
New Mexico	1,032	958	1,022	935	745	594	0	0	2,800	2,487
Utah	1,223	1,142	1,076	992	627	586	6	5	2,932	2,726
Wyoming	335	324	346	333	685	645	0	0	1,366	1,302
Pacific Contiguous	30,065	26,756	29,201	24,983	10,333	9,330	107	86	69,706	61,154
California	23,661	20,604	24,866	20,861	8,014	7,050	93	73	56,634	48,589
Oregon	2,353	2,307	1,550	1,503	1,027	1,035	2	2	4,932	4,847
Washington	4,051	3,844	2,785	2,619	1,292	1,245	11	10	8,139	7,718
Pacific Noncontiguous	1,653	1,416	1,646	1,361	1,517	1,126	0	0	4,817	3,903
Alaska	471	470	510	502	253	224	0	0	1,233	1,195
Hawaii	1,183	946	1,136	860	1,265	902	0	0	3,584	2,708
U.S. Total	230,174	200,834	172,257	149,008	85,171	71,835	770	646	488,371	422,323

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 2021 are final. Values for 2022 are preliminary estimates based on a cutoff model sample.

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

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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, December 2022 and 2021 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	27.04	22.07	19.23	16.90	16.38	13.47	13.17	9.29	22.25	18.71
Connecticut	23.50	20.93	19.48	16.57	16.35	9.67	20.30	14.22	21.30	18.14
Maine	22.52	17.90	15.75	13.91	11.75	10.67	--	--	17.88	15.15
Massachusetts	30.73	24.32	19.58	17.74	18.46	15.93	7.85	6.43	23.75	20.10
New Hampshire	30.92	21.02	21.58	16.66	17.44	14.43	--	--	25.15	18.38
Rhode Island	27.50	25.17	18.19	16.56	20.99	16.95	17.08	19.49	22.32	20.10
Vermont	20.15	19.58	17.67	17.01	12.35	11.71	--	--	17.47	16.77
Middle Atlantic	19.34	16.60	15.15	13.08	8.88	7.18	12.43	11.61	15.53	13.20
New Jersey	16.72	15.97	13.78	12.15	12.11	10.43	12.69	9.57	14.82	13.47
New York	22.79	19.56	17.60	15.34	7.81	6.61	13.46	12.36	18.27	15.76
Pennsylvania	17.87	14.37	11.69	9.65	8.80	6.96	7.17	6.82	13.35	10.64
East North Central	15.62	14.09	11.73	10.70	8.46	7.50	7.44	6.94	12.13	10.84
Illinois	16.19	13.40	11.54	9.76	9.00	7.69	7.71	6.70	12.43	10.35
Indiana	15.60	13.57	13.91	11.92	9.44	7.69	13.77	10.67	12.81	10.67
Michigan	17.79	17.26	12.90	12.25	8.79	7.72	12.76	12.18	13.60	12.84
Ohio	14.12	12.81	10.24	9.85	7.35	7.17	--	6.88	10.76	10.06
Wisconsin	14.87	14.20	11.22	10.72	7.89	7.26	14.87	13.63	11.52	10.79
West North Central	11.62	11.39	9.74	9.41	7.33	6.95	9.35	8.60	9.78	9.33
Iowa	11.20	11.52	9.05	9.26	5.89	5.82	--	--	8.35	8.28
Kansas	13.36	12.75	11.19	10.29	8.85	7.37	--	--	11.33	10.19
Minnesota	13.33	12.89	11.17	10.72	8.53	8.06	11.29	10.88	11.28	10.69
Missouri	11.04	10.54	9.12	8.46	7.84	6.93	7.20	6.41	9.88	9.15
Nebraska	9.84	10.11	8.46	8.55	7.00	6.51	--	--	8.50	8.31
North Dakota	9.62	9.36	7.90	8.37	6.72	7.21	--	--	7.83	8.10
South Dakota	11.29	11.50	10.06	9.90	8.05	7.89	--	--	10.24	10.12
South Atlantic	13.46	12.10	11.23	9.90	8.36	6.72	9.75	9.15	11.82	10.32
Delaware	14.61	12.57	12.47	9.75	10.44	7.79	--	--	13.15	10.66
District of Columbia	14.98	13.34	15.79	14.09	9.01	8.02	9.52	13.32	15.27	13.76
Florida	14.17	12.09	11.38	9.80	9.62	7.98	9.99	8.39	12.67	10.80
Georgia	11.96	12.07	10.97	10.70	7.85	6.43	6.78	6.12	10.71	10.21
Maryland	15.56	14.07	14.17	11.48	11.19	9.10	10.36	7.87	14.70	12.57
North Carolina	11.85	11.14	9.51	9.02	7.72	6.11	7.71	7.75	10.40	9.42
South Carolina	14.31	12.80	13.38	10.93	8.33	6.21	--	--	12.15	9.94
Virginia	13.94	11.71	10.09	8.57	8.99	7.82	11.14	10.15	11.55	9.77
West Virginia	12.76	11.82	10.31	9.42	7.05	5.80	--	--	10.07	8.79
East South Central	12.73	11.25	12.28	10.73	7.52	5.88	--	--	11.04	9.28
Alabama	13.17	9.66	12.74	8.87	7.71	5.11	--	--	11.18	7.69
Kentucky	12.99	12.19	12.21	11.50	7.98	6.40	--	--	11.06	9.65
Mississippi	12.55	11.82	12.03	11.11	7.33	6.26	--	--	10.69	9.61
Tennessee	12.29	11.56	12.11	11.33	6.84	5.98	--	--	11.05	10.20
West South Central	13.39	12.08	9.78	8.42	7.38	5.80	7.41	7.05	10.33	8.59
Arkansas	11.17	10.99	10.02	9.10	7.49	6.40	14.61	16.67	9.58	8.74
Louisiana	12.28	11.56	12.18	10.90	7.49	6.71	13.40	9.90	10.17	9.10
Oklahoma	11.23	10.70	10.04	8.62	7.15	5.62	--	--	9.55	8.25
Texas	14.26	12.56	9.34	7.98	7.37	5.48	7.11	6.89	10.59	8.51
Mountain	12.62	12.06	10.15	9.42	8.61	6.34	11.08	9.68	10.64	9.47
Arizona	12.56	12.62	10.20	10.06	9.07	6.35	8.99	8.76	11.00	10.38
Colorado	14.24	13.51	11.48	10.51	8.60	8.01	10.50	9.44	11.75	10.94
Idaho	10.51	10.31	8.16	7.71	6.03	5.56	--	--	8.77	8.32
Montana	11.81	11.12	11.76	10.57	14.11	6.31	--	--	12.39	9.64
Nevada	14.97	12.18	10.95	7.97	11.24	5.35	11.21	7.69	12.39	8.48
New Mexico	13.56	13.03	10.61	10.31	5.70	6.03	--	--	9.38	9.34
Utah	10.54	10.15	7.68	7.55	8.60	5.86	12.64	10.68	8.92	7.95
Wyoming	10.39	10.60	8.93	9.02	7.40	6.45	--	--	8.42	7.88
Pacific Contiguous	17.67	17.34	16.65	15.55	12.43	9.87	13.04	11.70	16.28	15.15
California	24.46	23.38	19.74	18.37	17.08	13.79	13.61	12.28	21.00	19.41
Oregon	11.06	11.20	9.49	9.05	7.43	5.75	10.51	9.65	9.69	9.02
Washington	10.03	10.09	9.63	9.29	7.07	5.71	10.02	9.54	9.34	8.95
Pacific Noncontiguous	33.61	29.36	30.92	26.55	33.35	26.57	--	--	32.58	27.55
Alaska	22.12	22.14	19.18	19.23	17.78	17.19	--	--	20.04	19.93
Hawaii	44.78	35.85	43.17	34.15	39.78	30.66	--	--	42.37	33.44
U.S. Total	14.96	13.72	12.42	11.15	8.63	7.06	11.52	10.49	12.52	11.03

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

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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 December 2022 and 2021 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2022 YTD	December 2021 YTD								
New England	24.81	21.51	18.21	16.34	15.40	12.80	11.29	8.83	20.60	18.03
Connecticut	24.65	21.91	18.56	16.46	14.90	9.63	17.81	12.50	21.08	18.32
Maine	22.52	17.02	15.53	12.90	11.17	9.55	--	--	17.61	13.96
Massachusetts	26.10	22.89	18.78	16.99	17.83	15.18	7.09	6.51	21.47	19.06
New Hampshire	25.50	19.85	18.70	16.13	15.19	13.81	--	--	21.09	17.37
Rhode Island	23.20	22.30	16.24	15.51	17.96	16.06	17.52	19.75	19.32	18.44
Vermont	20.18	19.26	17.39	16.59	12.11	11.38	--	--	17.18	16.34
Middle Atlantic	18.47	16.48	15.26	13.37	8.50	6.87	12.83	11.63	15.10	13.22
New Jersey	16.79	16.35	13.92	12.69	12.44	10.70	13.04	9.24	14.96	14.01
New York	22.04	19.48	18.26	16.07	7.64	6.34	13.84	12.67	18.38	16.11
Pennsylvania	16.06	13.76	10.80	8.91	8.27	6.54	7.81	6.84	11.95	9.97
East North Central	15.49	14.07	11.73	10.66	8.45	7.22	7.76	6.67	11.93	10.69
Illinois	15.87	13.18	11.66	9.65	8.92	7.30	7.49	6.42	12.24	10.14
Indiana	14.98	13.37	13.07	11.58	8.93	7.39	13.03	10.05	11.96	10.36
Michigan	17.75	17.54	12.47	12.31	8.35	7.69	12.35	12.30	13.16	12.93
Ohio	14.01	12.77	10.54	9.75	7.75	6.55	8.57	7.41	10.84	9.76
Wisconsin	15.50	14.52	11.71	10.95	8.36	7.63	16.56	15.12	11.82	11.01
West North Central	12.83	12.19	10.59	9.97	7.85	7.35	10.46	9.36	10.51	9.90
Iowa	13.07	12.73	10.48	10.17	7.09	6.63	--	--	9.55	9.13
Kansas	14.13	12.98	11.70	10.52	8.57	7.38	--	--	11.66	10.47
Minnesota	14.16	13.50	12.20	11.22	9.19	8.29	12.29	10.38	11.98	11.08
Missouri	12.29	11.41	9.82	9.17	8.10	7.11	8.77	8.23	10.68	9.85
Nebraska	10.93	10.75	8.88	8.81	7.24	7.26	--	--	8.91	8.84
North Dakota	10.90	10.85	9.01	9.17	6.94	7.37	--	--	8.39	8.65
South Dakota	12.17	12.22	10.23	10.15	8.10	8.02	--	--	10.49	10.43
South Atlantic	13.63	12.10	11.01	9.41	8.04	6.51	9.83	8.19	11.68	10.12
Delaware	13.73	12.52	11.06	9.48	9.26	7.60	--	--	11.95	10.50
District of Columbia	14.20	13.09	15.54	13.00	7.60	7.87	10.22	9.76	14.94	12.81
Florida	13.92	11.90	11.19	9.51	9.36	7.65	10.19	8.31	12.52	10.67
Georgia	14.02	12.51	12.68	10.61	9.09	6.49	9.33	6.61	12.41	10.43
Maryland	14.51	13.12	12.66	10.26	10.10	8.46	9.45	7.58	13.36	11.48
North Carolina	12.08	11.32	9.10	8.50	6.89	6.14	7.60	7.85	10.00	9.29
South Carolina	14.11	12.86	11.79	10.67	7.26	6.07	--	--	11.13	9.96
Virginia	13.52	11.96	9.55	7.79	8.24	6.49	10.85	8.49	10.80	9.14
West Virginia	13.25	12.15	10.44	9.50	6.74	6.07	--	--	9.75	8.87
East South Central	13.06	11.74	12.41	11.07	7.42	5.97	--	--	11.09	9.69
Alabama	14.39	12.96	13.42	11.84	7.83	6.33	--	--	11.77	10.18
Kentucky	12.85	11.50	11.95	10.75	7.63	5.95	--	--	10.62	9.12
Mississippi	12.65	11.56	12.09	10.81	6.99	5.95	--	--	10.65	9.50
Tennessee	12.37	11.07	12.15	10.87	6.88	5.51	--	--	11.07	9.78
West South Central	13.21	11.78	9.73	8.94	7.25	6.12	7.13	6.81	10.25	9.03
Arkansas	11.86	11.27	10.23	9.56	7.38	6.57	15.50	13.56	9.82	9.10
Louisiana	12.69	11.02	11.86	10.23	7.47	6.21	12.45	10.77	10.28	8.82
Oklahoma	12.57	11.00	10.39	8.70	6.95	5.50	--	--	10.07	8.52
Texas	13.55	12.11	9.26	8.72	7.21	6.12	6.82	6.59	10.32	9.14
Mountain	12.85	12.04	10.36	9.71	7.57	6.68	10.62	9.94	10.47	9.70
Arizona	13.02	12.54	10.79	10.33	7.74	6.79	9.62	9.33	11.29	10.73
Colorado	14.29	13.07	11.70	10.84	8.77	8.01	9.91	9.44	11.85	10.90
Idaho	10.42	10.16	8.29	7.89	6.72	6.39	--	--	8.53	8.17
Montana	11.37	11.22	10.70	10.54	7.43	6.24	--	--	9.97	9.50
Nevada	13.79	11.49	9.64	7.77	8.40	6.02	9.74	7.72	10.73	8.58
New Mexico	14.11	13.52	11.21	10.80	6.70	6.16	--	--	10.16	9.79
Utah	10.94	10.43	8.44	8.13	6.88	6.19	12.38	11.21	8.86	8.34
Wyoming	11.10	11.17	9.54	9.68	6.90	6.83	--	--	8.24	8.25
Pacific Contiguous	19.95	18.01	18.18	16.23	12.38	10.81	13.01	11.47	17.62	15.70
California	26.17	22.82	21.68	19.18	17.37	14.82	13.59	11.79	22.48	19.65
Oregon	11.35	11.37	9.27	9.10	6.44	5.97	10.45	9.71	9.23	8.95
Washington	10.23	10.11	9.52	9.14	6.05	5.81	10.05	9.89	9.02	8.75
Pacific Noncontiguous	34.49	28.85	30.65	25.48	31.39	24.19	--	--	32.12	26.19
Alaska	23.02	22.55	19.84	19.61	18.20	16.85	--	--	20.54	20.02
Hawaii	43.02	33.49	40.59	30.88	36.71	27.12	--	--	39.85	30.31
U.S. Total	15.12	13.66	12.55	11.22	8.45	7.18	11.66	10.20	12.49	11.10

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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:
2012 - December 2022**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	136,682,001	18,848,813	992,311	83	156,523,208
2021	138,308,772	19,102,304	1,022,212	82	158,433,370
2022	139,825,387	19,316,856	1,053,415	81	160,195,739
Year 2020					
January	135,882,652	18,806,506	973,566	83	155,662,807
February	135,215,196	18,691,075	956,000	83	154,862,354
March	136,372,119	18,871,191	973,805	83	156,217,198
April	136,344,191	18,827,108	984,766	83	156,156,148
May	136,178,906	18,763,333	985,155	83	155,927,477
June	136,740,348	18,861,854	1,007,108	83	156,609,393
July	137,441,000	18,916,992	1,020,510	82	157,378,584
August	136,834,443	18,827,402	1,009,473	82	156,671,400
Sept	137,124,272	18,867,545	1,010,883	82	157,002,782
October	137,301,842	18,919,047	993,821	82	157,214,792
November	136,773,523	18,836,665	978,625	82	156,588,895
December	137,973,904	18,995,400	1,013,820	82	157,983,206
Year 2021					
January	137,260,791	18,915,626	995,987	84	157,172,488
February	136,159,824	18,722,180	981,871	85	155,863,960
March	138,704,308	19,074,182	1,011,356	84	158,789,930
April	138,082,070	19,071,189	1,014,178	84	158,167,521
May	137,887,032	19,061,795	1,014,231	84	157,963,142
June	138,706,123	19,185,294	1,038,032	80	158,929,529
July	138,712,738	19,172,792	1,033,826	80	158,919,436
August	138,846,236	19,174,446	1,045,969	81	159,066,732
Sept	138,912,493	19,181,762	1,043,313	82	159,137,650
October	138,487,361	19,194,629	1,020,891	82	158,702,963
November	138,224,422	19,127,343	1,021,133	82	158,372,980
December	139,720,469	19,345,225	1,045,799	82	160,111,575
Year 2022					
January	138,341,944	19,141,145	1,023,762	80	158,506,931
February	138,764,658	19,144,783	1,015,597	80	158,925,118
March	140,338,045	19,421,786	1,039,962	80	160,799,873
April	138,824,502	19,240,293	1,033,263	81	159,098,139
May	139,647,354	19,316,333	1,050,572	81	160,014,340
June	140,097,454	19,381,279	1,069,647	81	160,548,461
July	139,668,253	19,298,591	1,064,673	81	160,031,598
August	140,587,372	19,389,438	1,082,558	81	161,059,449
Sept	140,265,361	19,358,647	1,075,394	81	160,699,483
October	140,339,016	19,361,196	1,065,716	81	160,766,009
November	140,203,229	19,344,200	1,053,232	81	160,600,742
December	140,827,460	19,404,581	1,066,602	81	161,298,724
Rolling 12 Months Ending in December					
2021	138,308,656	19,102,205	1,022,216	83	158,433,159
2022	139,825,387	19,316,856	1,053,415	81	160,195,739

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 2021 and prior years are final. Values for 2022 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:
December 2022 and 2021**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	6,499,134	6,523,504	934,103	920,747	21,594	22,329	6	6	7,454,837	7,466,586
Connecticut	1,537,034	1,534,438	156,783	156,046	3,925	4,007	3	3	1,697,745	1,694,494
Maine	743,226	739,032	109,848	101,535	2,138	2,489	0	0	855,212	843,056
Massachusetts	2,830,085	2,846,516	437,802	432,989	10,565	10,784	2	2	3,278,454	3,290,291
New Hampshire	642,844	639,583	110,578	110,439	3,121	3,194	0	0	756,543	753,216
Rhode Island	427,657	443,806	57,780	59,044	1,600	1,607	1	1	487,038	504,458
Vermont	318,288	320,129	61,312	60,694	245	248	0	0	379,845	381,071
Middle Atlantic	16,537,788	16,493,082	2,439,004	2,424,343	34,047	33,834	19	19	19,010,858	18,951,278
New Jersey	3,682,426	3,671,474	532,971	531,208	11,382	11,492	6	6	4,226,785	4,214,180
New York	7,362,131	7,331,454	1,176,451	1,165,815	6,954	7,553	8	8	8,545,544	8,504,830
Pennsylvania	5,493,231	5,490,154	729,582	727,320	15,711	14,789	5	5	6,238,529	6,232,268
East North Central	20,670,702	20,641,818	2,563,990	2,560,138	55,327	55,563	10	11	23,290,029	23,257,530
Illinois	5,362,047	5,374,211	642,954	635,547	5,669	5,480	3	3	6,010,673	6,015,241
Indiana	2,945,328	2,962,219	372,920	366,231	19,074	19,020	1	1	3,337,323	3,347,471
Michigan	4,499,371	4,469,269	556,374	552,671	5,647	5,808	2	2	5,061,394	5,027,750
Ohio	5,059,585	5,053,433	626,961	641,619	19,326	19,502	2	3	5,705,874	5,714,557
Wisconsin	2,804,371	2,782,686	364,781	364,070	5,611	5,753	2	2	3,174,765	3,152,511
West North Central	9,876,896	9,786,778	1,517,026	1,510,038	130,346	131,566	3	3	11,524,271	11,428,385
Iowa	1,445,573	1,424,561	249,125	247,664	8,567	9,623	0	0	1,703,265	1,681,848
Kansas	1,315,607	1,294,042	247,869	246,826	24,448	23,801	0	0	1,587,924	1,564,669
Minnesota	2,547,962	2,511,087	308,512	307,656	9,290	9,327	1	1	2,865,765	2,828,071
Missouri	2,858,759	2,874,448	396,662	397,447	9,836	9,986	2	2	3,265,259	3,281,883
Nebraska	889,784	873,783	160,559	157,909	64,515	65,611	0	0	1,114,858	1,097,303
North Dakota	394,981	393,030	77,533	77,407	9,426	9,025	0	0	481,940	479,462
South Dakota	424,230	415,827	76,766	75,129	4,264	4,193	0	0	505,260	495,149
South Atlantic	30,272,971	29,554,727	4,036,938	3,991,514	87,379	85,744	13	13	34,397,301	33,631,998
Delaware	459,694	456,536	59,127	58,900	817	859	0	0	519,638	516,295
District of Columbia	310,172	301,185	27,311	26,877	1	1	3	3	337,487	328,066
Florida	10,532,294	10,065,915	1,340,455	1,295,618	25,775	23,530	2	2	11,898,526	11,385,065
Georgia	4,677,245	4,596,869	606,018	604,609	24,043	24,036	1	1	5,307,307	5,225,515
Maryland	2,419,615	2,402,830	260,638	259,031	9,011	9,001	5	5	2,689,269	2,670,867
North Carolina	4,906,207	4,838,442	740,192	745,054	9,304	9,748	1	1	5,655,704	5,593,245
South Carolina	2,488,312	2,456,379	405,845	407,986	3,591	3,620	0	0	2,897,748	2,867,985
Virginia	3,614,661	3,572,225	447,465	444,461	3,693	3,678	1	1	4,065,820	4,020,365
West Virginia	864,771	864,346	149,887	148,978	11,144	11,271	0	0	1,025,802	1,024,595
East South Central	8,681,455	8,723,523	1,459,921	1,468,514	25,848	24,728	0	0	10,167,224	10,216,765
Alabama	2,340,958	2,328,108	378,463	380,932	7,957	7,212	0	0	2,727,378	2,716,252
Kentucky	2,007,367	2,039,022	319,574	318,782	5,850	5,392	0	0	2,332,791	2,363,196
Mississippi	1,347,605	1,327,695	243,419	245,060	11,021	11,110	0	0	1,602,045	1,583,865
Tennessee	2,985,525	3,028,698	518,465	523,740	1,020	1,014	0	0	3,505,010	3,553,452
West South Central	17,703,840	17,180,465	2,401,485	2,389,994	407,022	381,358	6	6	20,512,353	19,951,823
Arkansas	1,454,246	1,441,692	208,694	205,315	35,993	37,723	2	2	1,698,935	1,684,732
Louisiana	2,157,541	2,139,244	294,516	304,247	19,612	20,819	1	1	2,471,670	2,464,311
Oklahoma	1,856,756	1,830,412	300,802	300,198	19,088	20,084	0	0	2,176,646	2,150,694
Texas	12,235,297	11,769,117	1,597,473	1,580,234	332,329	302,732	3	3	14,165,102	13,652,086
Mountain	10,486,207	10,451,449	1,481,897	1,477,345	97,016	96,396	5	5	12,065,125	12,025,195
Arizona	3,017,074	2,989,116	339,596	336,658	7,201	7,462	2	2	3,363,873	3,333,238
Colorado	2,439,220	2,460,684	389,687	390,104	14,823	15,243	1	1	2,843,731	2,866,032
Idaho	832,351	816,647	120,430	118,396	29,109	28,940	0	0	981,890	963,983
Montana	544,884	535,992	115,646	113,722	10,577	10,414	0	0	671,107	660,128
Nevada	1,273,887	1,260,811	173,873	172,864	3,194	3,196	1	1	1,450,955	1,436,872
New Mexico	906,748	918,117	145,801	146,842	9,370	9,288	0	0	1,061,919	1,074,247
Utah	1,186,541	1,190,005	137,870	140,623	10,925	10,113	1	1	1,335,337	1,340,742
Wyoming	285,502	280,077	58,994	58,136	11,817	11,740	0	0	356,313	349,953
Pacific Contiguous	19,358,304	19,627,062	2,452,804	2,486,215	206,052	212,322	19	19	22,017,179	22,325,618
California	14,221,047	14,570,888	1,799,219	1,847,878	153,455	159,017	12	12	16,173,733	16,577,795
Oregon	1,840,293	1,815,417	249,078	243,512	25,515	26,718	2	2	2,114,888	2,085,649
Washington	3,296,964	3,240,757	404,507	394,825	27,082	26,587	5	5	3,728,558	3,662,174
Pacific Noncontiguous	740,163	738,061	117,413	116,377	1,971	1,959	0	0	859,547	856,397
Alaska	296,426	293,457	57,188	56,244	1,157	1,130	0	0	354,771	350,831
Hawaii	443,737	444,604	60,225	60,133	814	829	0	0	504,776	505,566
U.S. Total	140,827,460	139,720,469	19,404,581	19,345,225	1,066,602	1,045,799	81	82	161,298,724	160,111,575

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 2021 are final. Values for 2022 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), November 2022 to December 2022

Technology	Capacity Source	As of End of	Activity During December		As of End of	Net Change in Capacity - Current Month			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
		November	2022 as Reported to EIA		December	and Prior Periods			Planned Capacity Additions		Reductions		Planned Net Change		Capacity	
		2022	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	2022	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
..... Onshore Wind (Summer Capacity)	Utility Scale Facilities	139,218.4	1,774.1	97.5	140,895.0	1,676.6	8,182.9	8,182.9	2,032.8	7,448.5	0.0	0.0	2,032.8	7,448.5	142,927.8	148,343.5
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	41.3	0.0	0.0	41.3	0.0	0.0	0.0	0.0	130.0	0.0	0.0	0.0	130.0	41.3	171.3
..... Wind (Summer Capacity)	Utility Scale Facilities	139,259.7	1,774.1	97.5	140,936.3	1,676.6	8,182.9	8,182.9	2,032.8	7,578.5	0.0	0.0	2,032.8	7,578.5	142,969.1	148,514.8
..... Solar Photovoltaic	Utility Scale Facilities	68,190.0	2,438.3	0.0	70,628.3	2,438.3	10,558.2	10,558.2	3,061.9	28,975.9	0.0	0.0	3,061.9	28,975.9	73,690.2	99,604.2
..... Solar Thermal without Energy Storage	Utility Scale Facilities	1,074.4	0.0	0.0	1,074.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,074.4	1,074.4
..... 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	69,670.0	2,438.3	0.0	72,108.3	2,438.3	10,558.2	10,558.2	3,061.9	28,975.9	0.0	0.0	3,061.9	28,975.9	75,170.2	101,084.2
..... Conventional Hydroelectric	Utility Scale Facilities	79,974.5	5.0	0.0	79,979.5	5.0	69.8	69.8	0.0	63.7	0.0	2.6	0.0	61.1	79,979.5	80,040.6
..... Wood/Wood Waste Biomass	Utility Scale Facilities	8,001.1	0.0	0.0	8,001.1	0.0	77.9	77.9	26.8	26.8	0.0	8.2	26.8	18.6	8,027.9	8,019.7
..... Landfill Gas	Utility Scale Facilities	1,747.6	0.0	0.0	1,747.6	0.0	-11.5	-11.5	0.0	4.6	0.0	8.0	0.0	-3.4	1,747.6	1,744.2
..... Municipal Solid Waste	Utility Scale Facilities	2,050.8	0.0	0.0	2,050.8	0.0	-66.0	-66.0	0.0	0.0	0.0	0.0	0.0	0.0	2,050.8	2,050.8
..... Other Waste Biomass	Utility Scale Facilities	597.1	0.0	0.0	597.1	0.0	3.8	3.8	0.0	38.8	0.0	0.0	0.0	38.8	597.1	635.9
..... Biomass Sources Subtotal	Utility Scale Facilities	12,396.6	0.0	0.0	12,396.6	0.0	4.2	4.2	26.8	70.2	0.0	16.2	26.8	54.0	12,423.4	12,450.6
..... Geothermal	Utility Scale Facilities	2,652.6	0.0	0.0	2,652.6	0.0	55.9	55.9	0.0	25.0	0.0	0.0	0.0	25.0	2,652.6	2,677.6
... Renewable Sources Subtotal	Utility Scale Facilities	303,953.4	4,217.4	97.5	308,073.3	4,119.9	18,871.0	18,871.0	5,121.5	36,713.3	0.0	18.8	5,121.5	36,694.5	313,194.8	344,767.8
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	285,353.7	354.0	0.0	285,707.7	354.0	5,660.2	5,660.2	310.0	6,475.3	0.0	0.0	310.0	6,475.3	286,017.7	292,183.0
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	132,378.9	0.0	0.0	132,378.9	0.0	-27.5	-27.5	72.0	1,412.0	0.0	1,023.6	72.0	388.4	132,450.9	132,767.3
..... Natural Gas Steam Turbine	Utility Scale Facilities	73,727.7	10.0	654.0	73,083.7	-644.0	-699.9	-699.9	0.0	11.0	205.4	4,147.8	-205.4	-4,136.8	72,878.3	68,946.9
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	5,353.0	1.2	1.0	5,353.2	0.2	125.5	125.5	3.3	182.9	0.0	0.0	3.3	182.9	5,356.5	5,536.1
..... 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	320.9	7.4	0.0	328.3	7.4	33.3	33.3	7.4	21.4	0.0	0.0	7.4	21.4	335.7	349.7
..... Natural Gas Subtotal	Utility Scale Facilities	497,244.2	372.6	655.0	496,961.8	-282.4	5,091.6	5,091.6	392.7	8,102.6	205.4	5,171.4	187.3	2,931.2	497,149.1	499,893.0
..... Conventional Steam Coal	Utility Scale Facilities	200,450.7	0.0	2,955.0	197,495.7	-2,955.0	-11,574.0	-11,574.0	0.0	0.0	0.0	8,979.9	0.0	-8,979.9	197,495.7	188,515.8
..... 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	201,206.7	0.0	2,955.0	198,251.7	-2,955.0	-11,574.0	-11,574.0	0.0	0.0	0.0	8,979.9	0.0	-8,979.9	198,251.7	189,271.8
..... Petroleum Coke	Utility Scale Facilities	1,388.0	0.0	0.0	1,388.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,388.0	1,388.0
..... Petroleum Liquids	Utility Scale Facilities	25,465.4	2.0	9.0	25,458.4	-7.0	-1,359.1	-1,359.1	1.8	14.3	3.2	368.8	-1.4	-354.5	25,457.0	25,103.9
..... Other Gases	Utility Scale Facilities	1,884.2	0.0	5.3	1,878.9	-5.3	-9.1	-9.1	0.0	0.0	0.0	0.0	0.0	0.0	1,878.9	1,878.9
... Fossil Fuels Subtotal	Utility Scale Facilities	727,188.5	374.6	3,624.3	723,938.8	-3,249.7	-7,850.6	-7,850.6	394.5	8,116.9	208.6	14,520.1	185.9	-6,403.2	724,124.7	717,535.6
..... Hydroelectric Pumped Storage	Utility Scale Facilities	23,049.5	0.0	0.0	23,049.5	0.0	41.8	41.8	33.0	237.6	0.0	0.0	33.0	237.6	23,082.5	23,287.1
..... 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	8,576.3	259.0	14.0	8,821.3	245.0	4,074.6	4,074.6	721.9	9,453.9	0.0	0.0	721.9	9,453.9	9,543.2	18,275.2
... Energy Storage Subtotal	Utility Scale Facilities	31,672.8	259.0	14.0	31,917.8	245.0	4,116.4	4,116.4	754.9	9,691.5	0.0	0.0	754.9	9,691.5	32,672.7	41,609.3
... Nuclear	Utility Scale Facilities	94,764.6	0.0	0.0	94,764.6	0.0	-781.8	-781.8	0.0	2,228.0	0.0	0.0	0.0	2,228.0	94,764.6	96,992.6
... All Other	Utility Scale Facilities	1,474.2	0.0	0.0	1,474.2	0.0	-43.4	-43.4	0.0	26.9	0.0	0.0	0.0	26.9	1,474.2	1,501.1
TOTAL	UTILITY SCALE FACILITIES	1,159,053.5	4,851.0	3,735.8	1,160,168.7	1,115.2	14,311.6	14,311.6	6,270.9	56,776.6	208.6	14,538.9	6,062.3	42,237.7	1,166,231.0	1,202,406.4
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	39,017.1			39,486.5	469.4	6,405.6	6,405.6								
..... Estimated Total Solar Photovoltaic	All Facilities	107,207.1			110,114.8	2,907.7	16,963.8	16,963.8								
... Estimated Total Solar	All Facilities	108,687.1			111,594.8	2,907.7	16,963.8	16,963.8								

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

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
 Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

**Table 6.1.A. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)
2008 - December 2022**

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
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
2020	46,306.2	27,584.8	73,891.0
2021	60,070.1	33,081.0	93,151.1
Year 2020			
January	37,076.8	23,742.2	60,819.0
February	37,500.2	24,026.4	61,526.6
March	37,735.2	24,351.2	62,086.4
April	38,408.7	24,658.3	63,067.0
May	38,782.9	24,919.9	63,702.8
June	39,865.9	25,248.0	65,113.9
July	40,454.3	25,581.6	66,035.9
August	41,058.4	25,962.0	67,020.4
Sept	41,672.4	26,251.9	67,924.3
October	42,042.0	26,654.5	68,696.5
November	42,910.0	27,027.8	69,937.8
December	46,306.2	27,584.8	73,891.0
Year 2021			
January	46,958.5	28,190.1	75,148.6
February	47,653.4	28,529.0	76,182.4
March	49,269.7	28,897.3	78,167.0
April	49,784.1	29,338.2	79,122.3
May	50,448.9	29,730.0	80,178.9
June	51,174.9	30,341.8	81,516.7
July	52,136.1	30,673.6	82,809.7
August	53,619.6	31,157.6	84,777.2
Sept	54,659.6	31,525.4	86,185.0
October	55,488.0	31,928.0	87,416.0
November	56,506.2	32,393.8	88,900.0
December	60,070.1	33,081.0	93,151.1
Year 2022			
January	61,160.7	33,531.3	94,692.0
February	61,483.9	34,132.4	95,616.3
March	62,434.9	34,673.4	97,108.3
April	62,886.5	35,136.5	98,023.0
May	63,580.0	35,646.0	99,226.0
June	64,796.3	36,171.1	100,967.4
July	65,389.0	36,692.6	102,081.6
August	66,089.6	37,245.8	103,335.4
Sept	66,855.1	37,863.7	104,718.8
October	67,387.0	38,421.6	105,808.6
November	68,190.0	39,017.1	107,207.1
December	70,628.3	39,486.5	110,114.8

Values for 2021 are final. Values for 2022 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 - December 2022

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
2020	17,163.3	8,376.1	2,045.3	27,584.8
2021	21,116.2	9,752.0	2,212.7	33,081.0
Year 2020				
January	14,622.5	7,302.1	1,817.6	23,742.2
February	14,832.2	7,355.3	1,838.9	24,026.4
March	15,064.2	7,426.4	1,860.6	24,351.2
April	15,280.6	7,508.5	1,869.2	24,658.3
May	15,472.9	7,563.2	1,883.8	24,919.9
June	15,681.7	7,641.4	1,925.0	25,248.0
July	15,898.9	7,729.2	1,953.5	25,581.6
August	16,129.6	7,862.8	1,969.5	25,962.0
Sept	16,364.0	7,909.1	1,978.8	26,251.9
October	16,635.4	8,020.5	1,998.6	26,654.5
November	16,884.8	8,127.8	2,015.2	27,027.8
December	17,163.3	8,376.1	2,045.3	27,584.8
Year 2021				
January	17,531.5	8,601.4	2,057.2	28,190.1
February	17,807.3	8,645.3	2,076.4	28,529.0
March	18,047.8	8,752.1	2,097.4	28,897.3
April	18,392.4	8,837.3	2,108.6	29,338.2
May	18,678.3	8,924.6	2,127.1	29,730.0
June	19,119.1	9,076.8	2,145.9	30,341.8
July	19,403.9	9,132.0	2,137.6	30,673.6
August	19,744.8	9,257.6	2,155.2	31,157.6
Sept	20,053.8	9,294.5	2,177.2	31,525.4
October	20,370.7	9,372.4	2,184.9	31,928.0
November	20,682.7	9,512.0	2,199.1	32,393.8
December	21,116.2	9,752.0	2,212.7	33,081.0
Year 2022				
January	21,436.3	9,878.7	2,216.3	33,531.3
February	21,880.4	10,032.1	2,219.9	34,132.4
March	22,291.4	10,157.2	2,224.9	34,673.4
April	22,690.7	10,212.4	2,233.4	35,136.5
May	23,080.7	10,323.9	2,241.4	35,646.0
June	23,481.7	10,439.1	2,250.3	36,171.1
July	23,904.3	10,532.5	2,255.8	36,692.6
August	24,387.5	10,585.1	2,273.2	37,245.8
Sept	24,850.8	10,729.8	2,283.1	37,863.7
October	25,358.6	10,756.0	2,307.0	38,421.6
November	25,844.8	10,859.0	2,313.2	39,017.1
December	26,270.7	10,886.3	2,329.5	39,486.5

Values for 2021 are final. Values for 2022 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, December 2022 and 2021 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	6,970.4	6,843.1	22,946.0	23,029.7	1,830.4	1,830.4	311.2	241.5	3,356.1	3,345.4	22.0	22.0	35,436.1	35,312.1
Connecticut	538.3	571.0	7,436.6	7,412.3	29.4	29.4	1.6	1.6	2,108.0	2,097.3	0.0	0.0	10,113.9	10,111.6
Maine	2,512.5	2,425.2	2,532.0	2,532.0	0.0	0.0	46.3	46.3	0.0	0.0	22.0	22.0	5,112.8	5,025.5
Massachusetts	1,904.3	1,854.8	8,800.9	8,908.9	1,801.0	1,801.0	249.4	182.7	0.0	0.0	0.0	0.0	12,755.6	12,747.4
New Hampshire	944.1	944.1	2,270.4	2,270.4	0.0	0.0	0.0	0.0	1,248.1	1,248.1	0.0	0.0	4,462.6	4,462.6
Rhode Island	368.7	351.0	1,780.1	1,780.1	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	2,151.8	2,131.1
Vermont	702.5	697.0	126.0	126.0	0.0	0.0	10.9	10.9	0.0	0.0	0.0	0.0	839.4	833.9
Middle Atlantic	12,757.1	12,371.0	73,413.7	75,322.8	3,348.8	3,348.8	246.1	182.1	15,891.2	15,891.2	11.2	11.2	105,668.1	107,127.1
New Jersey	1,267.5	1,237.7	11,766.9	12,302.8	420.0	420.0	42.7	42.7	3,456.7	3,456.7	11.2	11.2	16,965.0	17,471.1
New York	8,475.5	8,139.2	26,385.6	26,917.5	1,406.8	1,406.8	148.8	84.8	3,341.3	3,341.3	0.0	0.0	39,758.0	39,889.6
Pennsylvania	3,014.1	2,994.1	35,261.2	36,102.5	1,522.0	1,522.0	54.6	54.6	9,093.2	9,093.2	0.0	0.0	48,945.1	49,766.4
East North Central	20,851.0	20,212.0	104,080.5	106,827.5	2,185.6	2,143.8	165.2	199.8	18,230.4	19,022.9	169.8	166.0	145,682.5	148,572.0
Illinois	8,063.5	7,926.2	24,407.5	26,156.6	0.0	0.0	96.1	135.7	11,582.4	11,582.4	78.0	78.0	44,227.5	45,878.9
Indiana	4,226.0	4,201.0	22,554.0	22,516.5	0.0	0.0	36.0	36.0	0.0	0.0	88.0	88.0	26,904.0	26,841.5
Michigan	4,495.7	4,284.6	20,486.2	19,597.2	2,185.6	2,143.8	1.3	1.3	3,318.0	4,113.8	3.8	0.0	30,490.6	30,140.7
Ohio	1,814.7	1,816.1	23,376.5	25,305.7	0.0	0.0	26.8	26.8	2,134.0	2,134.0	0.0	0.0	27,352.0	29,282.6
Wisconsin	2,251.1	1,984.1	13,256.3	13,251.5	0.0	0.0	5.0	0.0	1,196.0	1,192.7	0.0	0.0	16,708.4	16,428.3
West North Central	43,444.7	41,956.5	57,940.5	58,812.5	657.0	657.0	25.8	24.8	4,899.0	4,899.0	12.2	12.2	106,979.2	106,362.0
Iowa	12,787.6	12,084.3	9,677.7	9,682.4	0.0	0.0	3.9	3.9	0.0	0.0	0.0	0.0	22,469.2	21,770.6
Kansas	8,287.6	8,284.3	8,924.0	8,922.2	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	18,437.4	18,432.3
Minnesota	6,519.1	6,326.4	10,248.1	10,281.4	0.0	0.0	16.0	15.0	1,657.0	1,657.0	6.1	6.1	18,446.3	18,285.9
Missouri	2,775.4	2,760.5	16,400.6	17,168.0	657.0	657.0	2.2	2.2	1,247.0	1,247.0	0.0	0.0	21,082.2	21,834.7
Nebraska	3,854.1	3,282.9	6,198.8	6,199.8	0.0	0.0	2.9	2.9	770.0	770.0	0.0	0.0	10,825.8	10,255.6
North Dakota	4,849.3	4,846.5	4,539.8	4,650.9	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	9,394.4	9,502.7
South Dakota	4,371.6	4,371.6	1,951.5	1,907.8	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	6,323.9	6,280.2
South Atlantic	32,830.3	29,910.9	156,807.8	157,995.8	8,100.4	8,100.4	715.0	629.3	24,752.8	24,752.8	462.9	506.9	223,669.2	221,896.1
Delaware	105.7	54.2	3,218.3	3,218.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,324.0	3,272.6
District of Columbia	28.5	27.3	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	47.9
Florida	7,177.2	6,148.8	55,088.5	53,973.0	0.0	0.0	528.3	509.0	3,666.0	3,666.0	312.9	312.9	66,772.9	64,609.7
Georgia	6,687.3	6,064.8	25,278.2	26,140.7	1,897.4	1,897.4	82.2	42.2	4,061.0	4,061.0	0.0	44.0	38,006.1	38,250.1
Maryland	1,422.4	1,321.3	8,723.8	9,971.7	0.0	0.0	6.5	5.0	1,707.8	1,707.8	0.0	0.0	11,860.5	13,005.8
North Carolina	8,618.6	8,391.0	21,318.2	21,318.2	86.0	86.0	36.0	21.6	5,149.6	5,149.6	54.0	54.0	35,262.4	35,020.4
South Carolina	3,126.7	2,999.9	11,596.6	11,787.5	2,876.0	2,876.0	4.0	4.0	6,600.4	6,600.4	0.0	0.0	24,203.7	24,267.8
Virginia	4,463.9	3,818.6	17,789.6	17,791.7	3,241.0	3,241.0	10.5	0.0	3,568.0	3,568.0	96.0	96.0	29,169.0	28,515.3
West Virginia	1,200.0	1,085.0	13,774.0	13,774.0	0.0	0.0	47.5	47.5	0.0	0.0	0.0	0.0	15,021.5	14,906.5
East South Central	9,357.8	9,036.7	60,495.4	60,468.4	1,616.3	1,616.3	1.0	1.0	11,376.4	11,376.4	1.4	1.4	82,848.3	82,500.2
Alabama	4,332.2	4,332.2	19,125.1	19,125.1	0.0	0.0	1.0	1.0	5,452.7	5,452.7	0.0	0.0	28,911.0	28,911.0
Kentucky	1,289.7	1,239.3	16,343.5	16,343.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17,633.2	17,582.8
Mississippi	540.2	440.2	12,789.5	12,762.5	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,732.1	14,605.1
Tennessee	3,195.7	3,025.0	12,237.3	12,237.3	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,572.0	21,401.3
West South Central	66,556.1	58,065.5	140,841.0	140,620.8	288.0	288.0	2,115.2	819.4	8,930.7	8,930.7	549.1	549.1	219,280.1	209,273.5
Arkansas	1,816.5	1,716.5	11,291.9	11,256.0	30.0	30.0	22.0	12.0	1,817.8	1,817.8	0.0	0.0	14,978.2	14,832.3
Louisiana	738.6	688.6	21,714.0	21,714.0	0.0	0.0	0.5	0.5	2,132.9	2,132.9	330.1	330.1	24,916.1	24,866.1
Oklahoma	12,673.7	11,371.1	18,176.7	18,184.7	258.0	258.0	10.0	10.0	0.0	0.0	0.0	0.0	31,118.4	29,823.8
Texas	51,327.3	44,289.3	89,658.4	89,466.1	0.0	0.0	2,082.7	796.9	4,980.0	4,980.0	219.0	219.0	148,267.4	139,751.3
Mountain	38,193.6	36,412.6	57,572.6	58,812.6	797.1	797.1	323.0	234.0	3,937.0	3,937.0	123.7	123.7	100,947.0	100,317.0
Arizona	6,363.8	6,148.7	17,376.4	17,197.0	216.3	216.3	97.0	97.0	3,937.0	3,937.0	0.0	0.0	27,990.5	27,596.0
Colorado	7,149.0	6,770.5	10,335.0	10,925.0	580.8	580.8	10.2	10.2	0.0	0.0	9.1	9.1	18,084.1	18,295.6
Idaho	4,054.9	3,932.5	1,128.3	1,128.3	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,198.0	5,075.6
Montana	4,327.5	3,954.8	2,072.0	2,072.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	6,439.5	6,066.8
Nevada	5,258.9	4,910.1	7,821.6	7,821.6	0.0	0.0	200.0	125.0	0.0	0.0	6.5	6.5	13,287.0	12,863.2
New Mexico	5,363.3	5,101.3	4,855.1	5,702.1	0.0	0.0	14.8	1.8	0.0	0.0	0.7	0.7	10,233.9	10,805.9
Utah	2,270.2	2,188.7	7,310.8	7,289.3	0.0	0.0	1.0	0.0	0.0	0.0	40.2	40.2	9,622.2	9,518.2
Wyoming	3,406.0	3,406.0	6,673.4	6,677.3	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	10,091.8	10,095.7
Pacific Contiguous	75,780.3	73,101.0	45,677.7	45,528.1	4,225.9	4,225.9	4,763.2	2,338.7	3,391.0	3,391.0	94.4	125.1	133,932.5	128,709.8
California	37,042.7	34,868.5	37,863.1	37,710.5	3,911.9	3,911.9	4,722.2	2,327.7	2,240.0	2,240.0	94.4	125.1	85,874.3	81,183.7
Oregon	13,434.1	13,157.4	3,755.0	3,755.0	0.0	0.0	35.0	5.0	0.0	0.0	0.0	0.0	17,224.1	16,917.4
Washington	25,303.5	25,075.1	4,059.6	4,062.6	314.0	314.0	6.0	6.0	1,151.0	1,151.0	0.0	0.0	30,834.1	30,608.7
Pacific Noncontiguous	1,332.0	1,293.0	4,163.6	4,371.2	0.0	0.0	202.6	123.1	0.0	0.0	27.5	0.0	5,725.7	5,787.3
Alaska	542.4	542.4	2,183.7	2,184.7	0.0	0.0	93.7	47.2	0.0	0.0	0.0	0.0	2,819.8	2,774.3
Hawaii	789.6	750.6	1,979.9	2,186.5	0.0	0.0	108.9	75.9	0.0	0.0	27.5	0.0	2,905.9	3,013.0
U.S. Total	308,073.3	289,202.3	723,938.8	731,789.4	23,049.5	23,007.7	8,868.3	4,793.7	94,764.6	95,546.4	1,474.2	1,517.6	1,160,168.7	1,145,857.1

NM = Not meaningful due to large relative standard error.
Values for 2021 are final. Values for 2022 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, December 2022 and 2021 (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	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
New England	1,559.7	1,559.6	2,206.4	2,013.0	0.0	0.0	1,950.7	1,950.9	1,253.6	1,319.6	0.0	0.0	6,970.4	6,843.1	3,804.5	3,346.0	6,010.9	5,359.0	6,010.9	5,359.0
Connecticut	5.0	5.0	273.5	247.5	0.0	0.0	119.2	119.4	140.6	199.1	0.0	0.0	538.3	571.0	795.6	708.7	1,069.1	956.2	1,069.1	956.2
Maine	1,009.5	1,009.5	288.6	201.3	0.0	0.0	725.8	725.8	488.6	488.6	0.0	0.0	2,512.5	2,425.2	298.5	116.0	587.1	317.3	587.1	317.3
Massachusetts	105.8	105.7	1,254.1	1,197.2	0.0	0.0	267.7	267.7	276.7	284.2	0.0	0.0	1,904.3	1,854.8	2,002.8	1,907.1	3,256.9	3,104.3	3,256.9	3,104.3
New Hampshire	211.9	211.9	2.4	2.4	0.0	0.0	504.0	504.0	225.8	225.8	0.0	0.0	944.1	944.1	182.4	149.9	184.8	152.3	184.8	152.3
Rhode Island	77.3	77.3	248.6	230.9	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	368.7	351.0	362.8	317.7	611.4	548.6	611.4	548.6
Vermont	150.2	150.2	139.2	133.7	0.0	0.0	331.3	331.3	81.8	81.8	0.0	0.0	702.5	697.0	162.3	146.7	301.5	280.4	301.5	280.4
Middle Atlantic	3,657.4	3,657.4	2,491.5	2,103.0	0.0	0.0	5,507.7	5,507.7	1,100.5	1,102.9	0.0	0.0	12,757.1	12,371.0	5,627.6	4,750.6	8,119.1	6,853.6	8,119.1	6,853.6
New Jersey	7.6	7.6	1,053.8	1,024.0	0.0	0.0	12.3	12.3	193.8	193.8	0.0	0.0	1,267.5	1,237.7	2,359.4	2,022.8	3,413.2	3,046.8	3,413.2	3,046.8
New York	2,189.8	2,189.8	1,263.0	924.3	0.0	0.0	4,565.8	4,565.8	456.9	459.3	0.0	0.0	8,475.5	8,139.2	2,642.8	2,207.9	3,905.8	3,132.2	3,905.8	3,132.2
Pennsylvania	1,460.0	1,460.0	174.7	154.7	0.0	0.0	929.6	929.6	449.8	449.8	0.0	0.0	3,014.1	2,994.1	625.3	519.9	800.0	674.6	800.0	674.6
East North Central	15,549.9	15,615.6	3,315.8	2,589.4	0.0	0.0	876.7	876.9	1,108.6	1,130.1	0.0	0.0	20,851.0	20,212.0	1,734.9	1,445.4	5,050.7	4,034.8	5,050.7	4,034.8
Illinois	7,034.6	7,173.1	922.8	647.0	0.0	0.0	32.9	32.9	73.2	73.2	0.0	0.0	8,063.5	7,926.2	892.3	770.1	1,815.1	1,417.1	1,815.1	1,417.1
Indiana	3,453.1	3,453.1	629.2	606.7	0.0	0.0	71.6	69.1	72.1	72.1	0.0	0.0	4,226.0	4,201.0	211.1	162.1	840.3	768.8	840.3	768.8
Michigan	3,240.6	3,167.8	508.7	353.3	0.0	0.0	264.1	263.5	482.3	500.0	0.0	0.0	4,495.7	4,284.6	191.0	152.5	699.7	505.8	699.7	505.8
Ohio	1,097.3	1,097.3	481.2	479.8	0.0	0.0	101.9	101.9	134.3	137.1	0.0	0.0	1,814.7	1,816.1	266.6	219.4	747.8	699.2	747.8	699.2
Wisconsin	724.3	724.3	773.9	502.6	0.0	0.0	406.2	409.5	346.7	347.7	0.0	0.0	2,251.1	1,984.1	173.9	141.2	947.8	643.8	947.8	643.8
West North Central	38,105.9	36,843.9	1,546.9	1,350.8	0.0	0.0	3,363.1	3,363.1	428.8	398.7	0.0	0.0	43,444.7	41,956.5	850.6	673.7	2,397.5	2,024.5	2,397.5	2,024.5
Iowa	12,301.1	11,740.3	260.5	118.0	0.0	0.0	205.4	205.4	20.6	20.6	0.0	0.0	12,787.6	12,084.3	224.2	177.0	484.7	295.0	484.7	295.0
Kansas	8,238.1	8,238.1	33.5	30.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	8,287.6	8,284.3	63.2	43.5	96.7	73.7	96.7	73.7
Minnesota	4,832.6	4,694.1	1,120.4	1,093.5	0.0	0.0	214.5	214.5	351.6	324.3	0.0	0.0	6,519.1	6,326.4	188.9	142.5	1,309.3	1,236.0	1,309.3	1,236.0
Missouri	2,121.9	2,121.9	90.9	76.0	0.0	0.0	548.5	548.5	14.1	14.1	0.0	0.0	2,775.4	2,760.5	345.7	291.3	436.6	367.3	436.6	367.3
Nebraska	3,518.3	2,955.6	40.6	32.1	0.0	0.0	279.7	279.7	15.5	15.5	0.0	0.0	3,854.1	3,282.9	25.8	17.1	66.4	49.2	66.4	49.2
North Dakota	4,326.7	4,326.7	0.0	0.0	0.0	0.0	510.0	510.0	12.6	9.8	0.0	0.0	4,849.3	4,846.5	1.3	1.0	1.3	1.0	1.3	1.0
South Dakota	2,767.2	2,767.2	1.0	1.0	0.0	0.0	1,598.0	1,598.0	5.4	5.4	0.0	0.0	4,371.6	4,371.6	1.6	1.2	2.6	2.2	2.6	2.2
South Atlantic	1,268.0	1,153.0	20,229.5	17,480.6	0.0	0.0	7,145.9	7,142.9	4,186.9	4,134.4	0.0	0.0	32,830.3	29,910.9	4,381.1	3,354.2	24,610.6	20,834.8	24,610.6	20,834.8
Delaware	2.0	2.0	89.5	38.0	0.0	0.0	0.0	0.0	14.2	14.2	0.0	0.0	105.7	54.2	111.3	99.4	200.8	137.4	200.8	137.4
District of Columbia	0.0	0.0	16.5	15.3	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	28.5	27.3	116.3	100.5	132.8	115.8	132.8	115.8
Florida	0.0	0.0	5,980.2	4,951.8	0.0	0.0	43.5	43.5	1,153.5	1,153.5	0.0	0.0	7,177.2	6,148.8	1,857.6	1,187.1	7,837.8	6,138.9	7,837.8	6,138.9
Georgia	0.0	0.0	3,631.3	3,068.4	0.0	0.0	1,985.0	1,985.0	1,071.0	1,011.4	0.0	0.0	6,687.3	6,064.8	NM	234.1	NM	3,302.5	NM	3,302.5
Maryland	190.0	190.0	502.8	402.7	0.0	0.0	590.0	590.0	139.6	138.6	0.0	0.0	1,422.4	1,321.3	993.0	883.6	1,495.8	1,286.3	1,495.8	1,286.3
North Carolina	208.0	208.0	5,965.4	5,733.0	0.0	0.0	2,008.7	2,005.7	436.5	444.3	0.0	0.0	8,618.6	8,391.0	405.2	306.3	6,370.6	6,039.3	6,370.6	6,039.3
South Carolina	0.0	0.0	1,261.1	1,134.3	0.0	0.0	1,311.9	1,311.9	553.7	553.7	0.0	0.0	3,126.7	2,999.9	340.6	299.6	1,601.7	1,433.9	1,601.7	1,433.9
Virginia	12.0	12.0	2,782.7	2,137.1	0.0	0.0	866.0	866.0	803.2	803.5	0.0	0.0	4,463.9	3,818.6	249.5	225.9	3,032.2	2,363.0	3,032.2	2,363.0
West Virginia	856.0	741.0	0.0	0.0	0.0	0.0	340.8	340.8	3.2	3.2	0.0	0.0	1,200.0	1,085.0	26.4	17.7	26.4	17.7	26.4	17.7
East South Central	29.1	29.1	1,180.0	858.9	0.0	0.0	7,037.8	7,037.8	1,110.9	1,110.9	0.0	0.0	9,357.8	9,036.7	164.5	139.6	1,344.5	998.5	1,344.5	998.5
Alabama	0.0	0.0	421.1	421.1	0.0	0.0	3,291.8	3,291.8	619.3	619.3	0.0	0.0	4,332.2	4,332.2	NM	14.4	NM	435.5	NM	435.5
Kentucky	0.0	0.0	77.8	27.4	0.0	0.0	1,137.4	1,137.4	74.5	74.5	0.0	0.0	1,289.7	1,239.3	77.9	57.5	155.7	84.9	155.7	84.9
Mississippi	0.0	0.0	319.3	219.3	0.0	0.0	0.0	0.0	220.9	220.9	0.0	0.0	540.2	440.2	15.2	11.7	334.5	231.0	334.5	231.0
Tennessee	29.1	29.1	361.8	191.1	0.0	0.0	2,608.6	2,608.6	196.2	196.2	0.0	0.0	3,195.7	3,025.0	56.3	56.1	418.1	247.2	418.1	247.2
West South Central	50,716.8	44,782.1	11,724.6	9,178.7	0.0	0.0	3,014.5	3,004.5	1,100.2	1,100.2	0.0	0.0	66,556.1	58,065.5	2,576.6	1,841.6	14,301.2	11,020.3	14,301.2	11,020.3
Arkansas	0.0	0.0	323.7	223.7	0.0	0.0	1,265.8	1,265.8	227.0	227.0	0.0	0.0	1,816.5	1,716.5	174.9	112.8	498.6	336.5	498.6	336.5
Louisiana	0.0	0.0	124.5	74.5	0.0	0.0	192.0	192.0	422.1	422.1	0.0	0.0	738.6	688.6	166.4	155.5	290.9	230.0	290.9	230.0
Oklahoma	11,714.4	10,411.8	42.5	42.5	0.0	0.0	840.6	840.6	76.2	76.2	0.0	0.0	12,673.7	11,371.1	65.1	37.2	107.6	79.7	107.6	79.7
Texas	39,002.4	34,370.3	11,233.9	8,838.0	0.0	0.0	716.1	706.1	374.9	374.9	0.0	0.0	51,327.3	44,289.3	2,170.3	1,536.0	13,404.2	10,374.0	13,404.2	10,374.0
Mountain	16,161.0	15,504.1	10,095.6	9,017.1	474.2	474.2	10,567.3	10,557.4	172.3	175.5	723.2	684.3	38,193.6	36,412.6	4,696.4	4,101.8	14,792.0	13,118.9	15,266.2	13,593.1
Arizona	617.3	617.3	2,702.1	2,487.0	295.6	295.6	2,720.9	2,720.9	27.9	27.9	0.0	0.0	6,363.8	6,148.7	2,104.1	1,959.7	4,806.2	4,446.7	5,101.8	4,742.3
Colorado	5,136.2	4,991.2	1,294.6	1,059.6	0.0	0.0	689.5	691.0	28.7	28.7	0.0	0.0	7,149.0	6,770.5	858.9	722.0	2,153.5	1,781.6	2,153.5	1,781.6
Idaho	970.4	970.4	362.0	242.0	0.0	0.0	2,629.4	2,623.8	83.1	86.3	10.0	10.0	4,054.9	3,932.5	124.1	90.0	486.1	332.0	486.1	332.0
Montana	1,479.6	1,112.7	17.0	17.0	0.0	0.0	2,826.3	2,820.5	4.6	4.6	0.0	0.0	4,327.5	3,954.8	39.0	30.1	56.0	47.1	56.0	47.1
Nevada	150.0	150.0	3,235.0	2,925.1	178.5	178.5	1,051.7	1,051.7	9.8	9.8	633.9	595.0	5,258.9	4,910.1	773.4	637.2	4,008.4	3,562.3	4,186.9	3,740.8
New Mexico	4,410.9	4,265.9	855.7	738.7	0.0	0.0	82.7	82.7	5.4	5.4	8.6	8.6	5,363.3	5,101.3	317.0	262.3	1,172.7	1,001.0	1,172.7	1,001.0
Utah	389.7	389.7	1,537.2	1,455.7	0.1	0.1	259.7	259.7	12.8	12.8	70.7	70.7	2,270.2	2,188.7	464.3	388.6	2,001.5	1,844.3	2,001.5	1,844.4
Wyoming	3,006.9	3,006.9	92.0	92.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	3,406.0	3,406.0	15.6	11.9	107.6	103.9	107.6	103.9
Pacific Contiguous	13,596.3	13,316.4	17,510.1	15,189.7	1,005.8	1,005.8	40,007.8	39,960.5	1,773.9	1,759.2	1,886.4	1,869.4	75,780.3	73,101.0	14,854.7	12,663.8	32,364.8	27,		

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, December 2022 and 2021 (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	
	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021	December 2022	December 2021
	New England	14,358.8	14,357.3	1,708.0	1,765.6	1,594.9	1,572.7	533.9	533.9	0.0	0.0	4,750.4	4,800.2	0.0	0.0	22,946.0
Connecticut	3,932.6	3,932.6	585.6	579.8	978.6	960.0	0.0	0.0	0.0	0.0	1,939.8	1,939.9	0.0	0.0	7,436.6	7,412.3
Maine	1,282.8	1,282.8	312.0	312.0	92.5	92.5	0.0	0.0	0.0	0.0	844.7	844.7	0.0	0.0	2,532.0	2,532.0
Massachusetts	6,169.7	6,168.2	794.2	857.6	98.2	94.6	0.0	0.0	0.0	0.0	1,738.8	1,788.5	0.0	0.0	8,800.9	8,908.9
New Hampshire	1,238.5	1,238.5	3.8	3.8	400.2	400.2	533.9	533.9	0.0	0.0	94.0	94.0	0.0	0.0	2,270.4	2,270.4
Rhode Island	1,735.2	1,735.2	12.4	12.4	25.4	25.4	0.0	0.0	0.0	0.0	7.1	7.1	0.0	0.0	1,780.1	1,780.1
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.0	126.0	0.0	0.0	126.0	126.0
Middle Atlantic	37,040.9	37,332.0	7,981.2	8,081.7	13,684.7	13,677.3	9,678.6	10,907.6	11.6	11.6	4,901.8	5,197.7	114.9	114.9	73,413.7	75,322.8
New Jersey	8,355.5	8,588.4	2,957.0	3,039.0	73.7	75.7	244.0	463.0	11.6	11.6	96.1	96.1	29.0	29.0	11,766.9	12,302.8
New York	9,898.7	9,946.9	3,088.8	3,089.5	9,890.3	9,882.9	0.0	445.0	0.0	0.0	3,507.8	3,553.2	0.0	0.0	26,385.6	26,917.5
Pennsylvania	18,786.7	18,796.7	1,935.4	1,953.2	3,720.7	3,718.7	9,434.6	9,999.6	0.0	0.0	1,297.9	1,548.4	85.9	85.9	35,261.2	36,102.5
East North Central	27,783.5	24,158.8	26,387.5	26,541.7	5,701.8	5,694.9	40,504.3	46,699.5	250.6	250.6	2,367.9	2,397.1	1,084.9	1,084.9	104,080.5	106,827.5
Illinois	4,761.8	3,561.8	10,270.6	10,512.0	1,723.0	1,724.6	6,840.8	9,547.8	0.0	0.0	774.8	773.9	36.5	36.5	24,407.5	26,156.6
Indiana	3,875.0	3,875.0	3,365.8	3,338.3	755.6	752.9	13,842.5	13,835.2	0.0	0.0	95.8	95.8	619.3	619.3	22,554.0	22,516.5
Michigan	6,867.3	4,442.6	3,896.0	3,848.4	2,540.3	2,530.5	6,445.6	8,034.9	47.2	47.2	439.8	443.6	250.0	250.0	20,486.2	19,597.2
Ohio	8,765.2	8,765.2	5,608.3	5,596.2	99.0	103.0	8,097.5	10,011.5	145.0	145.0	482.4	505.7	179.1	179.1	23,376.5	25,305.7
Wisconsin	3,514.2	3,514.2	3,246.8	3,246.8	583.9	583.9	5,277.9	5,270.1	58.4	58.4	575.1	578.1	0.0	0.0	13,256.3	13,251.5
West North Central	7,094.0	7,064.1	11,814.4	11,725.5	3,402.1	3,540.9	31,670.1	32,402.9	32.0	32.0	3,922.3	4,038.7	5.6	8.4	57,940.5	58,812.5
Iowa	1,763.6	1,732.7	1,266.8	1,193.0	600.0	584.3	5,213.3	5,267.5	32.0	32.0	802.0	872.9	0.0	0.0	9,677.7	9,682.4
Kansas	266.0	266.0	2,196.1	2,197.1	1,346.2	1,338.7	4,524.6	4,524.6	0.0	0.0	591.1	595.8	0.0	0.0	8,924.0	8,922.2
Minnesota	2,532.9	2,532.9	2,550.5	2,551.4	415.1	419.0	3,978.6	4,009.1	0.0	0.0	771.0	769.0	0.0	0.0	10,248.1	10,281.4
Missouri	1,899.0	1,899.0	3,344.9	3,344.9	355.2	356.5	9,702.2	10,242.2	0.0	0.0	1,100.3	1,113.4	0.0	0.0	16,400.6	17,168.0
Nebraska	338.5	338.5	1,106.9	1,077.6	507.4	507.4	3,867.0	3,867.0	0.0	0.0	379.0	409.3	0.0	0.0	6,198.8	6,199.8
North Dakota	0.0	0.0	454.0	454.0	106.8	106.8	3,909.4	4,018.5	0.0	0.0	64.0	63.2	5.6	8.4	4,539.8	4,650.9
South Dakota	295.0	295.0	895.2	907.5	71.4	16.2	475.0	474.0	0.0	0.0	214.9	215.1	0.0	0.0	1,951.5	1,907.8
South Atlantic	64,166.8	61,922.8	32,654.0	33,411.8	10,618.9	10,384.0	43,609.7	45,674.7	142.8	142.8	5,480.6	6,324.7	135.0	135.0	156,807.8	157,995.8
Delaware	1,504.0	1,504.0	316.4	316.4	738.8	738.9	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,218.3	3,218.4
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	34,208.8	31,987.3	8,831.6	9,553.6	5,552.9	5,936.9	4,776.0	4,776.0	59.0	59.0	1,660.2	1,660.2	0.0	0.0	55,088.5	53,973.0
Georgia	8,073.2	8,076.7	7,801.1	7,800.1	850.1	850.1	7,524.0	8,384.0	83.8	83.8	946.0	946.0	0.0	0.0	25,278.2	26,140.7
Maryland	2,726.0	2,726.0	1,760.0	1,758.9	1,209.5	1,209.5	1,758.0	2,963.0	0.0	0.0	1,270.3	1,314.3	0.0	0.0	8,723.8	9,971.7
North Carolina	5,554.0	5,554.0	6,002.5	6,002.5	1.0	1.0	9,258.7	9,258.7	0.0	0.0	502.0	502.0	0.0	0.0	21,318.2	21,318.2
South Carolina	3,222.0	3,196.0	2,587.0	2,624.9	780.0	950.0	4,789.0	4,789.0	0.0	0.0	218.6	227.6	0.0	0.0	11,596.6	11,787.5
Virginia	8,878.8	8,878.8	4,245.3	4,245.3	1,371.1	582.1	2,536.0	2,536.0	0.0	0.0	758.4	1,549.5	0.0	0.0	17,789.6	17,791.7
West Virginia	0.0	0.0	1,089.5	1,089.5	115.5	115.5	12,558.0	12,558.0	0.0	0.0	11.0	11.0	0.0	0.0	13,774.0	13,774.0
East South Central	21,895.4	21,868.4	12,680.5	12,680.5	4,393.7	4,393.7	21,415.3	21,415.3	0.0	0.0	106.7	106.7	3.8	3.8	60,495.4	60,468.4
Alabama	9,795.3	9,795.3	2,572.8	2,572.8	1,982.6	1,982.6	4,728.0	4,728.0	0.0	0.0	42.6	42.6	3.8	3.8	19,125.1	19,125.1
Kentucky	1,763.0	1,763.0	4,905.6	4,905.6	260.0	260.0	9,403.0	9,403.0	0.0	0.0	11.9	11.9	0.0	0.0	16,343.5	16,343.5
Mississippi	7,882.0	7,855.0	1,369.6	1,369.6	2,084.9	2,084.9	1,444.0	1,444.0	0.0	0.0	9.0	9.0	0.0	0.0	12,789.5	12,762.5
Tennessee	2,455.1	2,455.1	3,832.5	3,832.5	66.2	66.2	5,840.3	5,840.3	0.0	0.0	43.2	43.2	0.0	0.0	12,237.3	12,237.3
West South Central	63,878.5	63,824.3	16,882.3	16,218.5	29,932.5	30,416.3	28,631.0	28,631.0	879.0	879.0	304.4	312.4	333.3	339.3	140,841.0	140,620.8
Arkansas	4,628.0	4,592.1	702.8	702.8	824.0	824.0	5,128.1	5,128.1	0.0	0.0	9.0	9.0	0.0	0.0	11,291.9	11,256.0
Louisiana	9,630.2	9,630.2	2,985.7	2,985.7	5,959.4	5,959.4	2,114.3	2,114.3	815.2	815.2	49.7	49.7	159.5	159.5	21,714.0	21,714.0
Oklahoma	7,339.9	7,339.9	1,636.3	1,636.3	5,887.1	5,887.1	3,247.0	3,247.0	0.0	0.0	66.4	74.4	0.0	0.0	18,176.7	18,184.7
Texas	42,280.4	42,262.1	11,557.5	10,893.7	17,262.0	17,745.8	18,141.6	18,141.6	63.8	63.8	179.3	179.3	173.8	179.8	89,658.4	89,466.1
Mountain	22,588.8	22,645.8	9,257.2	9,081.8	3,884.2	4,070.6	21,312.9	22,484.9	52.0	52.0	469.7	469.7	7.8	7.8	57,572.6	58,812.6
Arizona	9,992.9	9,988.9	3,074.4	2,899.0	1,278.6	1,278.6	2,943.0	2,943.0	0.0	0.0	87.5	87.5	0.0	0.0	17,376.4	17,197.0
Colorado	3,193.5	3,254.5	2,538.0	2,538.0	646.0	850.0	3,804.0	4,129.0	0.0	0.0	150.5	150.5	3.0	3.0	10,335.0	10,925.0
Idaho	549.3	549.3	556.9	556.9	11.7	11.7	5.0	5.0	0.0	0.0	5.4	5.4	0.0	0.0	1,128.3	1,128.3
Montana	0.0	0.0	315.8	315.8	72.2	72.2	1,630.5	1,630.5	52.0	52.0	0.0	0.0	1.5	1.5	2,072.0	2,072.0
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	1,484.1	1,484.1	804.6	804.6	839.7	839.7	1,540.0	2,387.0	0.0	0.0	186.7	186.7	0.0	0.0	4,855.1	5,702.1
Utah	1,830.0	1,830.0	534.6	534.6	337.4	315.9	4,581.0	4,581.0	0.0	0.0	27.8	27.8	0.0	0.0	7,310.8	7,289.3
Wyoming	94.0	94.0	247.3	247.3	254.0	257.9	6,069.0	6,069.0	0.0	0.0	5.8	5.8	3.3	3.3	6,673.4	6,677.3
Pacific Contiguous	26,526.4	26,499.4	12,292.7	12,178.2	5,488.0	5,488.5	727.0	727.0	20.0	20.0	430.0	421.1	193.6	193.9	45,677.7	45,528.1
California	20,504.6	20,477.6	11,449.5	11,335.0	5,232.2	5,227.7	57.0	57.0	20.0	20.0	406.2	399.3	193.6	193.9	37,863.1	37,710.5
Oregon	3,395.2	3,395.2	124.0	124.0	229.2	229.2	0.0	0.0	0.0	0.0	6.6	6.6	0.0	0.0	3,755.0	3,755.0
Washington	2,626.6	2,626.6	719.2	719.2	26.6	31.6	670.0	670.0	0.0	0.0	17.2	15.2	0.0	0.0	4,059.6	4,062.6
Pacific Noncontiguous	374.6	374.6	721.1	721.1	174.4	177.4	168.9	348.9	0.0	0.0	2,724.6	2,749.2	0.0	0.0	4,163.6	4,371.2
Alaska	374.6	374.6	721.1	721.1	174.4	177.4	168.9	348.9	0.0	0.0	744.7					

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

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	1	64446	ASD Cotuit MA Solar LLC	IPP	ASD Wallum MA Solar LLC(CSG)	MA	65015	WAL1	5.0	Solar Photovoltaic	SUN	PV
2022	1	64446	ASD Cotuit MA Solar LLC	IPP	ASD Wallum MA Solar LLC(CSG)	MA	65015	WAL1B	3.8	Batteries	MWH	BA
2022	1	59496	Allete Clean Energy	IPP	Caddo Wind	OK	64047	46002	303.6	Onshore Wind Turbine	WND	WT
2022	1	63813	Assembly Solar III, LLC	IPP	Assembly Solar III	MI	64196	AS3	79.0	Solar Photovoltaic	SUN	PV
2022	1	64390	Brighter Future Solar LLC	IPP	Brighter Future Solar	NC	64910	BFSNC	11.0	Solar Photovoltaic	SUN	PV
2022	1	5109	DTE Electric Company	Electric Utility	Fairbanks Wind Park	MI	62815	GNWF1	72.8	Onshore Wind Turbine	WND	WT
2022	1	64920	EF NY CDG 001, LLC	IPP	North Eagle Village Solar	NY	65626	NEV	5.0	Solar Photovoltaic	SUN	PV
2022	1	64919	EF NY CDG 003, LLC	IPP	Union Springs 963	NY	65625	US963	5.0	Solar Photovoltaic	SUN	PV
2022	1	56201	Engie North America	IPP	Priddy Wind Project	TX	64165	WTG1	302.4	Onshore Wind Turbine	WND	WT
2022	1	6452	Florida Power & Light Co	Electric Utility	Blue Springs	FL	64757	1	74.5	Solar Photovoltaic	SUN	PV
2022	1	6452	Florida Power & Light Co	Electric Utility	Elder Branch	FL	65041	1	74.5	Solar Photovoltaic	SUN	PV
2022	1	6452	Florida Power & Light Co	Electric Utility	Ghost Orchid Solar Energy Center	FL	65038	1	74.5	Solar Photovoltaic	SUN	PV
2022	1	6452	Florida Power & Light Co	Electric Utility	Grove	FL	65042	1	74.5	Solar Photovoltaic	SUN	PV
2022	1	6452	Florida Power & Light Co	Electric Utility	Immokalee	FL	65040	1	74.5	Solar Photovoltaic	SUN	PV
2022	1	6452	Florida Power & Light Co	Electric Utility	Sawgrass Solar Energy Center	FL	65037	1	74.5	Solar Photovoltaic	SUN	PV
2022	1	6452	Florida Power & Light Co	Electric Utility	Sundew	FL	65039	1	74.5	Solar Photovoltaic	SUN	PV
2022	1	64711	Fort Powhatan Solar	Electric Utility	Fort Powhatan Solar	VA	65322	FTPW	150.0	Solar Photovoltaic	SUN	PV
2022	1	7140	Georgia Power Co	Electric Utility	Fort Valley State University Solar	GA	63062	1	10.8	Solar Photovoltaic	SUN	PV
2022	1	60025	Greenbacker Renewable Energy Corporation	IPP	Capital Hill Solar LLC	NY	64931	531	1.5	Solar Photovoltaic	SUN	PV
2022	1	60025	Greenbacker Renewable Energy Corporation	IPP	Penstemon Solar Project	WA	62069	PENST	5.0	Solar Photovoltaic	SUN	PV
2022	1	7833	Gwitchyaa Zhee Utility Co	Electric Utility	Gwitchyaa Zhee	AK	7174	11	0.2	Petroleum Liquids	DFO	IC
2022	1	19558	Homer Electric Assn Inc	Electric Utility	Soldotna	AK	57206	3	46.5	Batteries	MWH	BA
2022	1	49893	Invenergy Services LLC	IPP	Jayhawk Wind Energy Center	KS	65129	65010	197.4	Onshore Wind Turbine	WND	WT
2022	1	64677	Lyons Road Solar, LLC	IPP	Lyons Road	MI	65347	LYON1	20.0	Solar Photovoltaic	SUN	PV
2022	1	12341	MidAmerican Energy Co	Electric Utility	Arbor Hill Solar	IA	64755	AHS	24.0	Solar Photovoltaic	SUN	PV
2022	1	12341	MidAmerican Energy Co	Electric Utility	Franklin County Solar	IA	64986	FCS	7.0	Solar Photovoltaic	SUN	PV
2022	1	12341	MidAmerican Energy Co	Electric Utility	Johnson County Hills Solar	IA	64985	JCHS	3.0	Solar Photovoltaic	SUN	PV
2022	1	12341	MidAmerican Energy Co	Electric Utility	Plymouth Wind	IA	64688	65003	200.0	Onshore Wind Turbine	WND	WT
2022	1	65340	NextGrid Peppertree, LLC	IPP	Lewiston Junction Road Solar	ME	66243	LWSJN	4.9	Solar Photovoltaic	SUN	PV
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Hall Solar Energy Storage	NC	64508	BAT1	2.5	Batteries	MWH	BA
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Hall Solar Energy Storage	NC	64508	SOL1	2.0	Solar Photovoltaic	SUN	PV
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Lowe Solar Energy Storage	NC	64516	BAT1	2.5	Batteries	MWH	BA
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Lowe Solar Energy Storage	NC	64516	SOL1	2.0	Solar Photovoltaic	SUN	PV
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Ludie Brown Solar Energy Storage	NC	64514	BAT1	2.5	Batteries	MWH	BA
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Ludie Brown Solar Energy Storage	NC	64514	SOL1	2.0	Solar Photovoltaic	SUN	PV
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Spencer Meadow Solar Energy Storage	NC	64520	BAT1	2.5	Batteries	MWH	BA
2022	1	13683	North Carolina EI Member Corp	Electric Utility	Spencer Meadow Solar Energy Storage	NC	64520	SOL1	2.0	Solar Photovoltaic	SUN	PV
2022	1	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Madison Dam	MT	6422	MAD7	4.1	Conventional Hydroelectric	WAT	HY
2022	1	56215	RWE Renewables Americas LLC	IPP	Cranell Wind Farm LLC	TX	62416	WT1	220.0	Onshore Wind Turbine	WND	WT
2022	1	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEABT	10.0	Batteries	MWH	BA
2022	1	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEARC	100.0	Solar Photovoltaic	SUN	PV
2022	1	18454	Tampa Electric Co	Electric Utility	Big Bend II Solar	FL	64641	2	31.5	Solar Photovoltaic	SUN	PV
2022	1	65173	United States Solar Corporation	IPP	USS Quail Solar LLC	MN	64870	USSQL	1.0	Solar Photovoltaic	SUN	PV
2022	1	64719	Victoria Port Power II	IPP	Victoria Port Power II LLC	TX	61966	VP2-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	1	64719	Victoria Port Power II	IPP	Victoria Port Power II LLC	TX	61966	VP2-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	1	20860	Wisconsin Public Service Corp	Electric Utility	Hodag Solar	WI	65968	HODAG	7.5	Solar Photovoltaic	SUN	PV
2022	2	64811	42nd Road Solar LLC	IPP	Mendota Rich Dev CSG	IL	65508	MEND	2.0	Solar Photovoltaic	SUN	PV
2022	2	64640	8500 Balboa PV, LLC	IPP	8500 Balboa PV, LLC	CA	65330	BALB1	2.4	Solar Photovoltaic	SUN	PV
2022	2	61012	AES Distributed Energy	IPP	Redman North Community Solar	NY	64718	RDMNN	1.5	Solar Photovoltaic	SUN	PV
2022	2	61012	AES Distributed Energy	IPP	Redman South Community Solar	NY	64722	RDMNS	5.0	Solar Photovoltaic	SUN	PV
2022	2	61012	AES Distributed Energy	IPP	Townline Community Solar	NY	64724	TWNLN	5.0	Solar Photovoltaic	SUN	PV
2022	2	64395	Bay4 Energy Services, LLC	IPP	Calibrant Bakersfield LLC	CA	65564	BAKER	1.3	Solar Photovoltaic	SUN	PV
2022	2	64424	Big Beau Solar, LLC	IPP	BigBeau Solar, LLC	CA	64993	BB1PV	128.0	Solar Photovoltaic	SUN	PV
2022	2	64068	Black Rock Wind Force, LLC	IPP	Black Rock Wind	WV	64433	BRW	115.0	Onshore Wind Turbine	WND	WT
2022	2	64394	Cuba 2.5ac, LLC	IPP	Cuba 2.5ac, LLC	NM	64903	SOLAR	2.5	Solar Photovoltaic	SUN	PV
2022	2	64426	DG Connecticut III, LLC	IPP	Burlington Solar 1	CT	65784	BS1	3.5	Solar Photovoltaic	SUN	PV
2022	2	64426	DG Connecticut III, LLC	IPP	Southington Solar One	CT	65668	EWS1	4.7	Solar Photovoltaic	SUN	PV
2022	2	64918	EF NY CDG 011, LLC	IPP	Union Springs 40	NY	65624	US40	5.0	Solar Photovoltaic	SUN	PV
2022	2	63497	Highest Power Solar, LLC	IPP	Highest Power Solar, LLC	NC	63812	PGR31	48.7	Solar Photovoltaic	SUN	PV
2022	2	50123	Leeward Asset Management, LLC	IPP	Aragonne Wind LLC	NM	56336	AREXP	145.0	Onshore Wind Turbine	WND	WT
2022	2	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SLBSV	46.5	Batteries	MWH	BA
2022	2	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SLSVC	93.0	Solar Photovoltaic	SUN	PV
2022	2	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN7	9.4	Natural Gas Internal Combustion Engine	NG	IC

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

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	2	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN8	9.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN9	9.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	12341	MidAmerican Energy Co	Electric Utility	Neal Energy Center Solar	IA	65393	NECS	4.0	Solar Photovoltaic	SUN	PV
2022	2	65255	Milo CSG, LLC	IPP	Milo CSG	ME	66086	29045	4.5	Solar Photovoltaic	SUN	PV
2022	2	61227	Nautilus Solar Solutions	IPP	NSE Camber Solar PS13 LLC (CSG)	CO	64356	SC	2.0	Solar Photovoltaic	SUN	PV
2022	2	61227	Nautilus Solar Solutions	IPP	NSE Camber Solar PS5 LLC (CSG)	CO	64358	SC	2.0	Solar Photovoltaic	SUN	PV
2022	2	61227	Nautilus Solar Solutions	IPP	NSE Camber Solar PS6 LLC CSG	CO	64357	SC	2.0	Solar Photovoltaic	SUN	PV
2022	2	60584	Onyx Asset Services Group	IPP	Corvias - Fort Riley II	KS	65804	13191	1.3	Solar Photovoltaic	SUN	PV
2022	2	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-6	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	2	16609	San Diego Gas & Electric Co	Electric Utility	Kearny North Energy Storage	CA	64612	KNES	10.0	Batteries	MWH	BA
2022	2	16609	San Diego Gas & Electric Co	Electric Utility	Kearny South Energy Storage	CA	64614	KSES	10.0	Batteries	MWH	BA
2022	2	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid(CSG)	MA	62977	SYN1B	4.0	Batteries	MWH	BA
2022	2	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid CSG	MA	62968	SYTKB	2.0	Batteries	MWH	BA
2022	2	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid CSG	MA	62968	SYTKS	2.8	Solar Photovoltaic	SUN	PV
2022	2	64315	Walmart Stores Texas, LLC	Commercial	WAL3224	TX	64893	GEN1	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	64315	Walmart Stores Texas, LLC	Commercial	WAL3224	TX	64893	GEN2	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	64315	Walmart Stores Texas, LLC	Commercial	WAL3224	TX	64893	GEN3	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	64315	Walmart Stores Texas, LLC	Commercial	WAL3406	TX	64922	GEN1	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	64315	Walmart Stores Texas, LLC	Commercial	WAL3406	TX	64922	GEN2	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	64315	Walmart Stores Texas, LLC	Commercial	WAL3406	TX	64922	GEN3	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	2	63276	Woodfields Solar, LLC	IPP	Woodfields Solar	SC	63552	PGR21	2.0	Solar Photovoltaic	SUN	PV
2022	3	59050	Algonquin Power Co	IPP	Maverick Creek Wind	TX	62853	MVRCK	491.6	Onshore Wind Turbine	WND	WT
2022	3	59495	Ameren Missouri	Electric Utility	Montgomery County Community Solar Center	MO	65726	MCCSC	5.7	Solar Photovoltaic	SUN	PV
2022	3	64144	Arlington Energy Center II	IPP	Arlington Energy Center II	CA	64481	AEC1	100.0	Solar Photovoltaic	SUN	PV
2022	3	63883	Broad Reach Power	IPP	Lopeno	TX	64316	LOPE	9.9	Batteries	MWH	BA
2022	3	63883	Broad Reach Power	IPP	Pueblo BA	TX	64318	PBL1	9.9	Batteries	MWH	BA
2022	3	63883	Broad Reach Power	IPP	Pueblo BA	TX	64318	PBL2	9.9	Batteries	MWH	BA
2022	3	63883	Broad Reach Power	IPP	Zapata	TX	64322	ZPT1	9.9	Batteries	MWH	BA
2022	3	63883	Broad Reach Power	IPP	Zapata	TX	64322	ZPT2	9.9	Batteries	MWH	BA
2022	3	3179	Caterpillar Inc	Industrial	Caterpillar	IN	50935	ET1-1	3.0	Natural Gas Internal Combustion Engine	NG	IC
2022	3	63511	Constellation Solar Illinois 2, LLC	IPP	Slidematic at Rockford	IL	64628	SLIDE	1.8	Solar Photovoltaic	SUN	PV
2022	3	63578	Dodge Flat Solar, LLC	IPP	Dodge Flat	NV	63913	DODGB	50.0	Batteries	MWH	BA
2022	3	63578	Dodge Flat Solar, LLC	IPP	Dodge Flat	NV	63913	DODGE	200.0	Solar Photovoltaic	SUN	PV
2022	3	15470	Duke Energy Indiana, LLC	Electric Utility	Purdue CHP	IN	65400	PUCHP	11.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	3	64921	EF NY CDG 002, LLC	IPP	Green Lakes Solar	NY	65627	GL	5.0	Solar Photovoltaic	SUN	PV
2022	3	64922	EF NY CDG 007, LLC	IPP	Judd Road Solar	NY	65628	JR	5.0	Solar Photovoltaic	SUN	PV
2022	3	63418	Elora Solar	IPP	Elora Solar	TN	63719	ELO	150.0	Solar Photovoltaic	SUN	PV
2022	3	64428	Evergy, Inc.	IPP	West Plains Solar I	MO	64982	WPS1	8.0	Solar Photovoltaic	SUN	PV
2022	3	63772	Fish Springs Ranch Solar, LLC	IPP	Fish Springs	NV	64148	FISH	100.0	Solar Photovoltaic	SUN	PV
2022	3	63772	Fish Springs Ranch Solar, LLC	IPP	Fish Springs	NV	64148	FISHB	25.0	Batteries	MWH	BA
2022	3	64683	Ford Ridge	IPP	Ford County Wind Farm LLC	IL	65350	FORDC	121.3	Onshore Wind Turbine	WND	WT
2022	3	62856	Forefront Power, LLC	IPP	CA - Fresno County - Juvenile Hall	CA	65528	17031	2.8	Solar Photovoltaic	SUN	PV
2022	3	65249	French Road Solar II, LLC	IPP	French Road Solar II	IL	66083	7063	2.0	Solar Photovoltaic	SUN	PV
2022	3	61194	Generate Capital	IPP	Bantam Solar	NY	66209	10986	5.0	Solar Photovoltaic	SUN	PV
2022	3	61194	Generate Capital	IPP	Cafferty Hill Solar	NY	66215	10996	5.0	Solar Photovoltaic	SUN	PV
2022	3	63108	Granby Solar, LLC	IPP	Granby Solar, LLC CSG	MA	63338	4788	2.0	Batteries	MWH	BA
2022	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS KSBD	CA	65091	293	4.3	Solar Photovoltaic	SUN	PV
2022	3	63764	Haystack Wind Project, LLC	IPP	Haystack Wind Project, LLC	NE	64139	4444	298.0	Onshore Wind Turbine	WND	WT
2022	3	64259	Heartland Divide II	IPP	Heartland Divide II	IA	64661	HDII	200.0	Onshore Wind Turbine	WND	WT
2022	3	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC2	48.3	Natural Gas Fired Combined Cycle	NG	CT
2022	3	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC3	48.3	Natural Gas Fired Combined Cycle	NG	CT
2022	3	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPS1	46.3	Natural Gas Fired Combustion Turbine	NG	GT
2022	3	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPST	81.0	Natural Gas Fired Combined Cycle	NG	CA
2022	3	63496	Lick Creek Solar, LLC	IPP	Lick Creek Solar, LLC	NC	63811	PGR27	50.0	Solar Photovoltaic	SUN	PV
2022	3	64724	Lincoln Solar Star, LLC	IPP	Lincoln WWTF Hybrid	CA	65382	ESS	1.0	Batteries	MWH	BA
2022	3	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SL3EC	67.5	Solar Photovoltaic	SUN	PV
2022	3	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SLB3C	33.8	Batteries	MWH	BA
2022	3	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SLBPW	10.0	Batteries	MWH	BA
2022	3	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SLPWR	26.0	Solar Photovoltaic	SUN	PV
2022	3	11479	Madison Gas & Electric Co	Electric Utility	Hermisdorf Solar	WI	64780	1	8.0	Solar Photovoltaic	SUN	PV
2022	3	64849	Maine DG Solar Augusta, LLC	IPP	Augusta	ME	65533	AUGU	2.5	Solar Photovoltaic	SUN	PV
2022	3	64848	Maine DG Solar Baldwin, LLC	IPP	Baldwin	ME	65532	BALD	5.0	Solar Photovoltaic	SUN	PV
2022	3	64850	Maine DG Solar Monmouth, LLC	IPP	Monmouth	ME	65534	MON	5.0	Solar Photovoltaic	SUN	PV

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

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	3	12341	MidAmerican Energy Co	Electric Utility	Waterloo Solar (IA)	IA	64984	WATS	3.0	Solar Photovoltaic	SUN	PV
2022	3	61227	Nautilus Solar Solutions	IPP	Mtn Solar 6 LLC (CSG)	CO	64352	SC	2.0	Solar Photovoltaic	SUN	PV
2022	3	61227	Nautilus Solar Solutions	IPP	NSE Camber Solar PS11 LLC (CSG)	CO	64353	SC	2.0	Solar Photovoltaic	SUN	PV
2022	3	61227	Nautilus Solar Solutions	IPP	Pivot Solar 12 LLC(CSG)	CO	64359	SC	1.0	Solar Photovoltaic	SUN	PV
2022	3	65350	NextGrid Mangrove, LLC	IPP	Merrill Road Solar	ME	66245	MRLRD	4.6	Solar Photovoltaic	SUN	PV
2022	3	64500	Norridgewock River Road Solar, LLC	IPP	River Road	ME	65112	RIV	5.0	Solar Photovoltaic	SUN	PV
2022	3	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Madison Dam	MT	6422	MAD8	4.1	Conventional Hydroelectric	WAT	HY
2022	3	65248	OE IL Solar 3, LLC	IPP	OE IL Solar 3	IL	66082	14850	2.0	Solar Photovoltaic	SUN	PV
2022	3	64413	Pretzel Solar, LLC	IPP	Pretzel CSG	IL	64971	PRETZ	2.0	Solar Photovoltaic	SUN	PV
2022	3	63359	REA Investments, LLC	IPP	Novel David Solar LLC CSG	MN	64486	DAVID	1.0	Solar Photovoltaic	SUN	PV
2022	3	63359	REA Investments, LLC	IPP	Novel Martens Solar LLC(CSG)	MN	63987	MRTNS	1.0	Solar Photovoltaic	SUN	PV
2022	3	64295	SPG IL Brush Creek Solar LLC	IPP	IL17021 Brush Creek I CSG	IL	64730	BCK17	2.0	Solar Photovoltaic	SUN	PV
2022	3	17164	Sierra Pacific Industries	Industrial	Sierra Pacific Chinese Camp	CA	65510	GEN 1	3.6	Solar Photovoltaic	SUN	PV
2022	3	17650	Southern Power Co	IPP	RE Tranquillity	CA	59939	BESS2	35.0	Batteries	MWH	BA
2022	3	60531	Standard Solar	IPP	Lake Elsinore Canopies - Lakeside HS	CA	66242	LSHS	1.0	Solar Photovoltaic	SUN	PV
2022	3	62716	Stony Knoll Solar, LLC	IPP	Stony Knoll Solar, LLC	NC	62820	GEN1	22.6	Solar Photovoltaic	SUN	PV
2022	3	18454	Tampa Electric Co	Electric Utility	Big Bend Floating Solar I	FL	65772	1	1.0	Solar Photovoltaic	SUN	PV
2022	3	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S1	CA	64929	PV	44.6	Solar Photovoltaic	SUN	PV
2022	3	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S3	CA	64928	PV	37.7	Solar Photovoltaic	SUN	PV
2022	3	60947	Tesla Inc.	Industrial	Buffalo NY GigaFactory	NY	65071	PV1	2.0	Solar Photovoltaic	SUN	PV
2022	3	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	RF67	0.3	Solar Photovoltaic	SUN	PV
2022	3	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	RA	1.1	Solar Photovoltaic	SUN	PV
2022	3	58542	Trustees of Princeton University	Commercial	Princeton University Cogeneration	NJ	58584	PV3	10.5	Solar Photovoltaic	SUN	PV
2022	3	58542	Trustees of Princeton University	Commercial	Princeton University Cogeneration	NJ	58584	PV4	0.4	Solar Photovoltaic	SUN	PV
2022	3	19588	University of Michigan	Commercial	University of Michigan	MI	50431	CT6	15.5	Natural Gas Fired Combined Cycle	NG	CT
2022	3	64315	Walmart Stores Texas, LLC	Commercial	WAL5080	TX	64948	GEN1	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	3	64315	Walmart Stores Texas, LLC	Commercial	WAL5080	TX	64948	GEN2	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	3	64315	Walmart Stores Texas, LLC	Commercial	WAL5080	TX	64948	GEN3	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	3	64315	Walmart Stores Texas, LLC	Commercial	WAL565	TX	64798	GEN1	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	3	64315	Walmart Stores Texas, LLC	Commercial	WAL565	TX	64798	GEN2	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	3	64315	Walmart Stores Texas, LLC	Commercial	WAL565	TX	64798	GEN3	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	3	62668	Wheatridge Wind Holdings, LLC	IPP	Wheatridge Hybrid	OR	62745	BTRY	30.0	Batteries	MWH	BA
2022	3	62668	Wheatridge Wind Holdings, LLC	IPP	Wheatridge Hybrid	OR	62745	SOLAR	50.0	Solar Photovoltaic	SUN	PV
2022	4	61012	AES Distributed Energy	IPP	Central Line Solar, LLC	AZ	64566	CNTRL	100.0	Solar Photovoltaic	SUN	PV
2022	4	64172	Arevon Asset Management	IPP	Coso Battery Storage	CA	63943	61730	60.0	Batteries	MWH	BA
2022	4	15399	Avangrid Renewables LLC	IPP	Golden Hill Wind	OR	63710	GH1	201.3	Onshore Wind Turbine	WND	WT
2022	4	56769	Consolidated Edison Development Inc.	IPP	CED Manchester Wind	IA	64177	MANW	7.9	Onshore Wind Turbine	WND	WT
2022	4	61684	Diablo Energy Storage, LLC	IPP	Diablo Energy Storage	CA	62175	DIBLO	200.0	Batteries	MWH	BA
2022	4	65182	Flower Valley II	IPP	Flower Valley II	TX	66007	BA	101.0	Batteries	MWH	BA
2022	4	61194	Generate Capital	IPP	Svenski Solar	NY	66232	10894	2.0	Solar Photovoltaic	SUN	PV
2022	4	61194	Generate Capital	IPP	Svenski Solar	NY	66232	BAT	2.0	Batteries	MWH	BA
2022	4	60025	Greenbacker Renewable Energy Corporation	IPP	Robin NJ	NJ	65563	136	2.2	Solar Photovoltaic	SUN	PV
2022	4	65076	HEN Infrastructure, L.L.C.	IPP	Faulkner	TX	65813	FAULK	9.9	Batteries	MWH	BA
2022	4	65076	HEN Infrastructure, L.L.C.	IPP	Saddleback	TX	65834	SDLBK	9.9	Batteries	MWH	BA
2022	4	64807	Herrema Dairy, LLC	Industrial	Herrema Dairy	IN	65494	HER1	0.8	Natural Gas Internal Combustion Engine	NG	IC
2022	4	49893	Invenegy Services LLC	IPP	Traverse Wind Project, LLC	OK	63479	GEN1	999.0	Onshore Wind Turbine	WND	WT
2022	4	64493	Jicarilla Solar 2 LLC	IPP	Jicarilla Solar 2	NM	65103	JICS2	50.0	Solar Photovoltaic	SUN	PV
2022	4	63244	KSI II Consolidated, LLC	IPP	County Road 17 (CSG)	NY	65222	AFTON	3.3	Solar Photovoltaic	SUN	PV
2022	4	63107	Lansing Renewables, LLC	IPP	Lansing Renewables, LLC	NY	63337	14320	3.0	Batteries	MWH	BA
2022	4	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SLBES	50.0	Batteries	MWH	BA
2022	4	61944	MN8 Energy LLC	IPP	Slate Hybrid	CA	63727	SLSTN	63.0	Solar Photovoltaic	SUN	PV
2022	4	62915	Madison Energy Holdings LLC	IPP	Salvation Army Solar	NJ	66049	SARMY	1.1	Solar Photovoltaic	SUN	PV
2022	4	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN17	2.0	Natural Gas Internal Combustion Engine	NG	IC
2022	4	61227	Nautilus Solar Solutions	IPP	TPE King Solar Holdings1, LLC (CSG)	RI	64603	KING1	12.7	Solar Photovoltaic	SUN	PV
2022	4	63185	Neighborhood Power Corp.	IPP	River Valley Solar	OR	63665	W0054	1.9	Solar Photovoltaic	SUN	PV
2022	4	65351	NextGrid Cliffrose, LLC	IPP	Lisbon Street Solar	ME	66246	LSBST	2.0	Solar Photovoltaic	SUN	PV
2022	4	13809	NorthWestern Energy - (SD)	Electric Utility	Bob Glanzer Generating Station	SD	65295	HG1	9.2	Natural Gas Internal Combustion Engine	NG	IC
2022	4	13809	NorthWestern Energy - (SD)	Electric Utility	Bob Glanzer Generating Station	SD	65295	HG2	9.2	Natural Gas Internal Combustion Engine	NG	IC
2022	4	13809	NorthWestern Energy - (SD)	Electric Utility	Bob Glanzer Generating Station	SD	65295	HG3	9.2	Natural Gas Internal Combustion Engine	NG	IC
2022	4	13809	NorthWestern Energy - (SD)	Electric Utility	Bob Glanzer Generating Station	SD	65295	HG4	9.2	Natural Gas Internal Combustion Engine	NG	IC
2022	4	13809	NorthWestern Energy - (SD)	Electric Utility	Bob Glanzer Generating Station	SD	65295	HG5	9.2	Natural Gas Internal Combustion Engine	NG	IC
2022	4	13809	NorthWestern Energy - (SD)	Electric Utility	Bob Glanzer Generating Station	SD	65295	HG6	9.2	Natural Gas Internal Combustion Engine	NG	IC
2022	4	63773	Orsted Onshore North America	IPP	Western Trail Wind, LLC	TX	64149	WTW	366.6	Onshore Wind Turbine	WND	WT

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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	4	14328	Pacific Gas & Electric Co.	Electric Utility	Elkhorn Battery Energy Storage System	CA	62564	ELKHO	182.5	Batteries	MWH	BA
2022	4	61298	Pine Gate Renewables	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV
2022	4	64933	Solar Star River SLB, LLC	IPP	DRPA Ashland Station Solar Project	NJ	66021	ASSA1	2.5	Solar Photovoltaic	SUN	PV
2022	4	64933	Solar Star River SLB, LLC	IPP	DRPA Woodcrest Station Solar Project	NJ	66020	WSSP	4.2	Solar Photovoltaic	SUN	PV
2022	4	64251	TG East Wind Project LLC	IPP	TG East	TX	64639	ESCA	336.0	Onshore Wind Turbine	WND	WT
2022	4	64902	TPE MD MO33 LLC	IPP	MO33 CSG	MD	65611	MO33	2.0	Solar Photovoltaic	SUN	PV
2022	4	18454	Tampa Electric Co	Electric Utility	Jamison Solar (FL)	FL	64631	1	74.5	Solar Photovoltaic	SUN	PV
2022	4	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	54.6	Solar Photovoltaic	SUN	PV
2022	4	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E2	CA	64879	BESS	122.8	Batteries	MWH	BA
2022	4	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	RB	1.8	Solar Photovoltaic	SUN	PV
2022	4	64393	Tulare Solar Center, LLC	IPP	Luciana	CA	64909	TSC	55.8	Solar Photovoltaic	SUN	PV
2022	4	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	OEC2	17.0	Geothermal	GEO	BT
2022	4	61980	Valta Energy	IPP	VS RXI 8520 Balboa	CA	65685	VSPRC	1.0	Solar Photovoltaic	SUN	PV
2022	4	20856	Wisconsin Power & Light Co	Electric Utility	City of Sheboygan Solar	WI	65680	PV1	1.0	Solar Photovoltaic	SUN	PV
2022	5	61012	AES Distributed Energy	IPP	Skipjack Solar Center	VA	62675	SKIPJ	175.0	Solar Photovoltaic	SUN	PV
2022	5	61514	Agilitas Energy, LLC	IPP	Auburn Solar Project	MA	64213	AUB	4.9	Solar Photovoltaic	SUN	PV
2022	5	61514	Agilitas Energy, LLC	IPP	Auburn Solar Project	MA	64213	BEAUB	3.8	Batteries	MWH	BA
2022	5	64539	CHF-Davis I, LLC	IPP	West Village Solar - Array 1 Community Solar	CA	65189	WVSA1	1.0	Solar Photovoltaic	SUN	PV
2022	5	64539	CHF-Davis I, LLC	IPP	West Village Solar - Array 2 Community Solar	CA	65190	WVSA2	1.0	Solar Photovoltaic	SUN	PV
2022	5	64083	DG Central 1, LLC	IPP	Grand Casino Hinckley Solar	MN	65942	GRAND	3.0	Solar Photovoltaic	SUN	PV
2022	5	5015	Delano Municipal Utilities	Electric Utility	Delano	MN	1969	10	2.0	Petroleum Liquids	DFO	IC
2022	5	5015	Delano Municipal Utilities	Electric Utility	Delano	MN	1969	11	2.0	Petroleum Liquids	DFO	IC
2022	5	6455	Duke Energy Florida, LLC	Electric Utility	Sandy Creek Solar Power Plant	FL	64146	PV1	74.9	Solar Photovoltaic	SUN	PV
2022	5	64209	El Algodon Alto Wind Farm, LLC	IPP	El Algodon Alto Wind Farm, LLC	TX	64591	EEA	200.2	Onshore Wind Turbine	WND	WT
2022	5	5701	El Paso Electric Co	Electric Utility	NMSU Solar and Storage	NM	64881	NMSUB	1.0	Batteries	MWH	BA
2022	5	64482	Everson Garden LLC	IPP	Everson Garden	MN	65075	CGS	1.0	Solar Photovoltaic	SUN	PV
2022	5	59497	Eversource	IPP	Outer Cape Community Battery	MA	62604	OCESS	25.0	Batteries	MWH	BA
2022	5	6452	Florida Power & Light Co	Electric Utility	Dania Beach 7	FL	65978	7GT1	385.6	Natural Gas Fired Combined Cycle	NG	CT
2022	5	6452	Florida Power & Light Co	Electric Utility	Dania Beach 7	FL	65978	7GT2	385.6	Natural Gas Fired Combined Cycle	NG	CT
2022	5	6452	Florida Power & Light Co	Electric Utility	Dania Beach 7	FL	65978	ST7	391.8	Natural Gas Fired Combined Cycle	NG	CA
2022	5	60025	Greenbacker Renewable Energy Corporation	IPP	ER Center Road Solar, LLC	VT	65166	287	2.1	Solar Photovoltaic	SUN	PV
2022	5	60025	Greenbacker Renewable Energy Corporation	IPP	WW-DC Solar 1, LLC	DC	65176	654	1.2	Solar Photovoltaic	SUN	PV
2022	5	49893	Invenegy Services LLC	IPP	Samson Solar Energy	TX	63211	GEN1	250.0	Solar Photovoltaic	SUN	PV
2022	5	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	01	600.0	Natural Gas Fired Combined Cycle	NG	CS
2022	5	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	02	600.0	Natural Gas Fired Combined Cycle	NG	CS
2022	5	65068	Limelight Solar I, LLC	IPP	Limelight Solar I, LLC	SC	65818	LIME1	2.0	Solar Photovoltaic	SUN	PV
2022	5	65258	Livermore Falls CSG, LLC	IPP	Livermore Falls CSG	ME	66087	28911	3.3	Solar Photovoltaic	SUN	PV
2022	5	55983	Luminant Generation Company LLC	IPP	Brightside	TX	63223	UNIT1	50.7	Solar Photovoltaic	SUN	PV
2022	5	64676	Macbeth Solar, LLC	IPP	Macbeth Solar	MI	65346	MCB20	20.0	Solar Photovoltaic	SUN	PV
2022	5	62915	Madison Energy Holdings LLC	IPP	Blue Hen Solar	DE	65791	BHEN1	1.5	Solar Photovoltaic	SUN	PV
2022	5	65220	Middleton Biogas Solar, LLC	IPP	Middleton Biogas Solar, LLC	WI	66048	MBS	1.9	Solar Photovoltaic	SUN	PV
2022	5	65233	NSF Angelica Site 1, LLC	IPP	Angelica Solar Site 1	NY	66061	A1	5.0	Solar Photovoltaic	SUN	PV
2022	5	65235	NSF Angelica Site 2, LLC	IPP	Angelica Solar Site 2	NY	66062	A2	5.0	Solar Photovoltaic	SUN	PV
2022	5	65236	NSF Angelica Site 3, LLC	IPP	Angelica Solar Site 3	NY	66063	A3	5.0	Solar Photovoltaic	SUN	PV
2022	5	65237	NSF Angelica Site 4, LLC	IPP	Angelica Solar Site 4	NY	66064	A4	5.0	Solar Photovoltaic	SUN	PV
2022	5	64391	Pine Valley Solar, LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV
2022	5	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-3	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	5	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-4	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	5	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-5	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	5	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-7	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	5	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-8	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	5	64698	Renewable Solar, Inc	Industrial	Dover Dairy	CA	65766	13856	1.1	Solar Photovoltaic	SUN	PV
2022	5	63714	Route 66 Energy Center, LLC	IPP	Route 66 Energy Center, LLC	NM	64076	RTE66	49.5	Solar Photovoltaic	SUN	PV
2022	5	64785	Sealed Air Corporation	IPP	Sealed Air Madera Solar Project	CA	65469	SAMBA	1.5	Batteries	MWH	BA
2022	5	64785	Sealed Air Corporation	IPP	Sealed Air Madera Solar Project	CA	65469	SAMSP	3.0	Solar Photovoltaic	SUN	PV
2022	5	63432	SkyHigh 2 Solar	Commercial	EMWD - San Jacinto RES BCT	CA	64399	EMRES	4.2	Solar Photovoltaic	SUN	PV
2022	5	64905	Solar Star Coastal Pirate, LLC	IPP	Orange Coast College PH2 Solar Project	CA	65614	OCCBA	2.1	Batteries	MWH	BA
2022	5	64905	Solar Star Coastal Pirate, LLC	IPP	Orange Coast College PH2 Solar Project	CA	65614	OCCSP	3.0	Solar Photovoltaic	SUN	PV
2022	5	60531	Standard Solar	IPP	USS Sycamore Solar (CSG)	IL	63621	USSYC	2.7	Solar Photovoltaic	SUN	PV
2022	5	64778	Strata Manager, LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV
2022	5	64901	TPE MD MO32 LLC	IPP	MO32 (CSG)	MD	65610	MO32	2.0	Solar Photovoltaic	SUN	PV
2022	5	65155	The Greater Light USA LLC	IPP	University of the Pacific	CA	65132	PV1	4.5	Solar Photovoltaic	SUN	PV
2022	5	65095	UE - 00602CO, LLC	Electric CHP	Gaylord Rockies CHP	CO	65898	T0041	2.0	Natural Gas Internal Combustion Engine	NG	IC

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2022	5	65095	UE - 00602CO, LLC	Electric CHP	Gaylord Rockies CHP	CO	65898	T0042	2.0	Natural Gas Internal Combustion Engine	NG	IC
2022	5	57281	University of Cincinnati	Commercial	East Campus Utility Plant	OH	57929	P058	2.5	Petroleum Liquids	DFO	IC
2022	5	19564	University of Notre Dame	Commercial	Notre Dame Hydro	IN	62918	HYD1	2.5	Conventional Hydroelectric	WAT	HY
2022	5	61980	Valta Energy	IPP	VS RXI Panorama City	CA	65651	VSRPC	1.0	Solar Photovoltaic	SUN	PV
2022	6	65067	233 Randolph 74 Solar I, LLC	IPP	233 Randolph 74 Solar I, LLC	NC	65819	CAPE1	2.0	Solar Photovoltaic	SUN	PV
2022	6	61012	AES Distributed Energy	IPP	Luna Storage	CA	63685	LUNA	100.0	Batteries	MWH	BA
2022	6	62794	AP Solar 2, LLC	IPP	Fighting Jays Solar Project	TX	62945	FJSOL	227.5	Solar Photovoltaic	SUN	PV
2022	6	61514	Agilitas Energy, LLC	IPP	Ocean State BTM	RI	64760	MESS	3.0	Batteries	MWH	BA
2022	6	65345	Ash Mesa Solar, LLC	IPP	Ash Mesa Solar, LLC	CO	66247	21536	7.8	Solar Photovoltaic	SUN	PV
2022	6	63571	Azure Sky Solar Project, LLC	IPP	Azure Sky Solar	TX	63905	ASKYB	77.0	Batteries	MWH	BA
2022	6	63698	BD Solar Hancock LLC	IPP	BD Solar Hancock LLC	ME	64068	HANPV	7.0	Solar Photovoltaic	SUN	PV
2022	6	63700	BD Solar Hancock North LLC	IPP	BD Solar Ellsworth LLC	ME	64070	ELLPV	7.0	Solar Photovoltaic	SUN	PV
2022	6	63696	BD Solar Palmyra LLC	IPP	Palmyra PV - BD Solar Palmyra LLC	ME	64062	PALPV	5.0	Solar Photovoltaic	SUN	PV
2022	6	64577	Caden Energix Wytheville LLC	IPP	Caden Energix Wytheville LLC	VA	65314	ENX19	20.0	Solar Photovoltaic	SUN	PV
2022	6	64940	Cattail Solar, LLC	IPP	Cattail (CSG)	IL	65671	CATTL	2.0	Solar Photovoltaic	SUN	PV
2022	6	18137	City of Stockton - (KS)	Electric Utility	Stockton	KS	1327	6	2.8	Petroleum Liquids	DFO	IC
2022	6	56769	Consolidated Edison Development Inc.	IPP	UMass PV Lot 49	MA	65153	U49PV	0.9	Solar Photovoltaic	SUN	PV
2022	6	65184	Crossett Power Management LLC	IPP	Crossett Power Management LLC	TX	66009	BA	203.0	Batteries	MWH	BA
2022	6	61060	Cypress Creek Renewables	IPP	Shakes Solar	TX	65333	785	200.0	Solar Photovoltaic	SUN	PV
2022	6	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	11	359.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	12	359.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	1S	428.0	Natural Gas Fired Combined Cycle	NG	CA
2022	6	64331	DTE Sustainable Generation	IPP	Garden 2 Solar Park	MI	65498	GRDS2	1.4	Solar Photovoltaic	SUN	PV
2022	6	64872	Distributed Solar Development, LLC	IPP	MD - CS - Potomac Edison Co - GA25 TPE (Community Solar)	MD	65339	19002	2.0	Solar Photovoltaic	SUN	PV
2022	6	62884	Energy Power Partners	IPP	Eastern Landfill Gas LLC	MD	56571	4	1.0	Landfill Gas	LFG	IC
2022	6	63631	Four Brothers 2, LLC	IPP	Hertford Solar Power, LLC	NC	63024	KEH	10.0	Solar Photovoltaic	SUN	PV
2022	6	61194	Generate Capital	IPP	Route 19 #1 Community Solar Farm	NY	62500	1258	2.0	Solar Photovoltaic	SUN	PV
2022	6	61194	Generate Capital	IPP	Route 19 #2 Community Solar Farm	NY	62502	1415	5.0	Solar Photovoltaic	SUN	PV
2022	6	60025	Greenbacker Renewable Energy Corporation	IPP	Camas Solar Project	WA	62071	CAMAS	5.0	Solar Photovoltaic	SUN	PV
2022	6	60025	Greenbacker Renewable Energy Corporation	IPP	Graphite Solar I	UT	64186	394	80.0	Solar Photovoltaic	SUN	PV
2022	6	60025	Greenbacker Renewable Energy Corporation	IPP	Hudson County Solar	NJ	65167	470	1.2	Solar Photovoltaic	SUN	PV
2022	6	65076	HEN Infrastructure, L.L.C.	IPP	Cedarville (TX)	TX	65810	CDRVL	9.9	Batteries	MWH	BA
2022	6	65076	HEN Infrastructure, L.L.C.	IPP	Coyote Springs (TX)	TX	65811	CYTSP	9.9	Batteries	MWH	BA
2022	6	65076	HEN Infrastructure, L.L.C.	IPP	Rattlesnake (TX)	TX	65833	RTLK	9.9	Batteries	MWH	BA
2022	6	63437	Helena Wind, LLC	IPP	Helena Wind	TX	63738	HEL	250.0	Onshore Wind Turbine	WND	WT
2022	6	9234	Indiana Municipal Power Agency	Electric Utility	Anderson 6	IN	64249	SAND6	6.8	Solar Photovoltaic	SUN	PV
2022	6	63522	Johanna Energy Center, LLC	IPP	Santa Ana Storage 2	CA	64921	SAP2	20.0	Batteries	MWH	BA
2022	6	50123	Leeward Asset Management, LLC	IPP	Panorama Wind, LLC	CO	64872	PANWD	145.0	Onshore Wind Turbine	WND	WT
2022	6	64441	MN CSG 2019-16 LLC	IPP	MN CSG 2019-16 LLC	MN	65003	WOLFE	1.0	Solar Photovoltaic	SUN	PV
2022	6	62897	MSB Investors, LLC	Electric CHP	Tajiguas Resource Recovery Project	CA	63094	SBAD1	1.1	Other Waste Biomass	OBG	IC
2022	6	62897	MSB Investors, LLC	Electric CHP	Tajiguas Resource Recovery Project	CA	63094	SBAD2	1.1	Other Waste Biomass	OBG	IC
2022	6	63733	Maverick Solar 6, LLC	IPP	Maverick Solar 6, LLC	CA	64105	MAV04	50.0	Batteries	MWH	BA
2022	6	64700	OYA Robinson Road, LLC	IPP	OYA Robinson Road	NY	65378	NY002	5.0	Solar Photovoltaic	SUN	PV
2022	6	64743	PPM Solar LLC	IPP	Beloit Solar LLC	KS	65391	BS1	2.0	Solar Photovoltaic	SUN	PV
2022	6	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-2	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	63359	REA Investments, LLC	IPP	Novel Handeland Solar LLC (CSG)	MN	64479	HNDLD	1.0	Solar Photovoltaic	SUN	PV
2022	6	63359	REA Investments, LLC	IPP	Novel Sunnyfield Farms Solar LLC CSG	MN	64483	SNYFD	1.0	Solar Photovoltaic	SUN	PV
2022	6	64416	RPNY Solar 2, LLC	IPP	Bullis Road Solar (CSG)	NY	64965	BULLS	4.5	Solar Photovoltaic	SUN	PV
2022	6	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar Hybrid	GA	63522	HPBAT	40.0	Batteries	MWH	BA
2022	6	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar Hybrid	GA	63522	HPRK	195.5	Solar Photovoltaic	SUN	PV
2022	6	64917	Rayos del Sol Solar Project, LLC	IPP	Nebula Solar	TX	65661	NEB1	135.0	Solar Photovoltaic	SUN	PV
2022	6	62983	SE Athos I, LLC	IPP	Athos Solar Project	CA	63300	IPAT1	250.0	Solar Photovoltaic	SUN	PV
2022	6	64758	SJRR	IPP	SJRR Power LLC	TX	62548	SJ-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	64758	SJRR	IPP	SJRR Power LLC	TX	62548	SJ-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	63432	SkyHigh 2 Solar	Commercial	Amazon TUS2	AZ	64384	ATUS2	2.6	Solar Photovoltaic	SUN	PV
2022	6	18454	Tampa Electric Co	Electric Utility	Big Bend Agrivoltaics	FL	65771	1	1.0	Solar Photovoltaic	SUN	PV
2022	6	24211	Tucson Electric Power Co	Industrial	Raptor Ridge	AZ	65972	RRS	12.5	Solar Photovoltaic	SUN	PV
2022	6	65173	United States Solar Corporation	IPP	USS Prokosch Solar LLC	MN	64988	USPKS	1.0	Solar Photovoltaic	SUN	PV
2022	6	64303	VESI 10 LLC	IPP	Tierra Buena Energy Storage	CA	64743	TB1	2.5	Batteries	MWH	BA
2022	6	64303	VESI 10 LLC	IPP	Tierra Buena Energy Storage	CA	64743	TB2	2.5	Batteries	MWH	BA
2022	6	64939	Ventura Drive Dartmouth Solar 1, LLC	IPP	Ventura	MA	65670	VTRBA	1.0	Batteries	MWH	BA
2022	6	64939	Ventura Drive Dartmouth Solar 1, LLC	IPP	Ventura	MA	65670	VTRPV	1.0	Solar Photovoltaic	SUN	PV

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

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	6	64315	Walmart Stores Texas, LLC	Commercial	WAL504	TX	64792	GEN1	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	6	64315	Walmart Stores Texas, LLC	Commercial	WAL504	TX	64792	GEN2	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	6	64315	Walmart Stores Texas, LLC	Commercial	WAL504	TX	64792	GEN3	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	6	65238	West Valley Solar, LLC	IPP	West Valley Solar	NY	66065	WVS1	5.0	Solar Photovoltaic	SUN	PV
2022	6	65238	West Valley Solar, LLC	IPP	West Valley Solar	NY	66065	WVS2	5.0	Solar Photovoltaic	SUN	PV
2022	6	20856	Wisconsin Power & Light Co	Electric Utility	Kohler Solar	WI	65681	PV1	2.3	Solar Photovoltaic	SUN	PV
2022	7	64841	ACC Renewable Resources	IPP	Abel Road Bioenergy	CA	65517	BMORC	3.0	Other Waste Biomass	AB	OT
2022	7	60571	AEP Onsite Partners, LLC	IPP	PNA Rossford Solar Array	OH	66140	PNA01	1.4	Solar Photovoltaic	SUN	PV
2022	7	61012	AES Distributed Energy	IPP	Main Rd Community Solar	NY	64717	MAINR	5.0	Solar Photovoltaic	SUN	PV
2022	7	61012	AES Distributed Energy	IPP	Mountain View I&2	CA	55719	MVWR	70.9	Onshore Wind Turbine	WND	WT
2022	7	63699	BD Solar 2 LLC	IPP	Winslow PV - BD Solar 2 LLC	ME	64069	WINPV	7.0	Solar Photovoltaic	SUN	PV
2022	7	65221	Brazoria County Solar Project	IPP	Brazoria County Solar Project (Danciger)	TX	66046	BRZ01	200.0	Solar Photovoltaic	SUN	PV
2022	7	63221	CD4	IPP	CD4	CA	63490	OEC1	17.0	Geothermal	GEO	BT
2022	7	40230	Deseret Generation & Tran Coop	Electric Utility	Fort Pierce Generating Facility	UT	65380	3	15.0	Natural Gas Internal Combustion Engine	NG	IC
2022	7	3046	Duke Energy Progress - (NC)	Electric Utility	Hot Springs Energy Storage & Microgrid	NC	64640	ES1	4.4	Batteries	MWH	BA
2022	7	3046	Duke Energy Progress - (NC)	Electric Utility	Hot Springs Energy Storage & Microgrid	NC	64640	PV1	1.9	Solar Photovoltaic	SUN	PV
2022	7	63237	Emerald Hills Holding I, LLC	IPP	Depot Solar Center, LLC	VA	61691	DEPOT	15.0	Solar Photovoltaic	SUN	PV
2022	7	64938	Faunce Corner Road Dartmouth Solar 1, LLC	IPP	Faunce Corner Community Solar	MA	65669	FCBA	1.0	Batteries	MWH	BA
2022	7	64938	Faunce Corner Road Dartmouth Solar 1, LLC	IPP	Faunce Corner Community Solar	MA	65669	FCPV	1.0	Solar Photovoltaic	SUN	PV
2022	7	62856	Forefront Power, LLC	IPP	NY - PANYNJ - LaGuardia - Rooftop	NY	65450	18002	1.0	Solar Photovoltaic	SUN	PV
2022	7	65117	Hecate Energy Upshur Rural LLC	IPP	Hecate Energy Upshur Rural LLC	TX	65946	SOLAR	3.0	Solar Photovoltaic	SUN	PV
2022	7	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	364.8	Natural Gas Fired Combined Cycle	NG	CT
2022	7	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	364.8	Natural Gas Fired Combined Cycle	NG	CT
2022	7	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	354.4	Natural Gas Fired Combined Cycle	NG	CA
2022	7	9234	Indiana Municipal Power Agency	Electric Utility	Linton	IN	65069	LINT	5.4	Solar Photovoltaic	SUN	PV
2022	7	9234	Indiana Municipal Power Agency	Electric Utility	Walkerton	IN	65068	WALK	1.1	Solar Photovoltaic	SUN	PV
2022	7	64802	Longbow Solar, LLC	IPP	Longbow Solar, LLC	TX	65521	LBSOL	57.0	Solar Photovoltaic	SUN	PV
2022	7	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	BESS	260.0	Batteries	MWH	BA
2022	7	61755	Marshall Solar	IPP	Marshall Solar	SC	62238	52	2.0	Solar Photovoltaic	SUN	PV
2022	7	58341	McKinley Paper Co. - Washington Mill	Industrial	McKinley Paper Co. - Washington Mill	WA	58352	G-11A	12.0	Wood/Wood Waste Biomass	WDS	ST
2022	7	12341	MidAmerican Energy Co	Electric Utility	Holliday Creek Solar	IA	64738	HCS	100.0	Solar Photovoltaic	SUN	PV
2022	7	62893	Milliani I Solar LLC	IPP	Milliani South Solar Farm	HI	57242	1	39.0	Solar Photovoltaic	SUN	PV
2022	7	62893	Milliani I Solar LLC	IPP	Milliani South Solar Farm	HI	57242	2	39.0	Batteries	MWH	BA
2022	7	64684	Mulligan Solar	IPP	Mulligan Solar, LLC	IL	65349	MLGAN	92.4	Solar Photovoltaic	SUN	PV
2022	7	56990	NJR Clean Energy Ventures Corporation	IPP	Holland Solar Farm	NJ	65387	HOLND	6.7	Solar Photovoltaic	SUN	PV
2022	7	61227	Nautilus Solar Solutions	IPP	Pivot Solar 1 LLC (CSG)	CO	64649	SC	1.0	Solar Photovoltaic	SUN	PV
2022	7	61227	Nautilus Solar Solutions	IPP	Pivot Solar 3 LLC (CSG)	CO	64654	SC	2.0	Solar Photovoltaic	SUN	PV
2022	7	61227	Nautilus Solar Solutions	IPP	Pivot Solar 4 LLC (CSG)	CO	64648	SC	2.0	Solar Photovoltaic	SUN	PV
2022	7	61227	Nautilus Solar Solutions	IPP	Pivot Solar 7 LLC (CSG)	CO	64653	SC	2.0	Solar Photovoltaic	SUN	PV
2022	7	61227	Nautilus Solar Solutions	IPP	Pivot Solar 8 LLC (CSG)	CO	64655	SC	2.0	Solar Photovoltaic	SUN	PV
2022	7	34691	Ormat Nevada Inc	IPP	Galena 2 Geothermal Power Plant	NV	56540	GLSOL	3.0	Solar Photovoltaic	SUN	PV
2022	7	34691	Ormat Nevada Inc	IPP	Steamboat Hills LP	NV	50654	SBSOL	2.0	Solar Photovoltaic	SUN	PV
2022	7	63110	Owville Creek Solar 2, LLC	IPP	Owville Creek Solar 2, LLC	NY	63340	20660	3.0	Batteries	MWH	BA
2022	7	63111	Owville Creek Solar, LLC	IPP	Owville Creek Solar, LLC	NY	63341	20660	3.0	Batteries	MWH	BA
2022	7	63359	REA Investments, LLC	IPP	Novel Denzer Solar LLC CSG	MN	64488	DNZR	1.0	Solar Photovoltaic	SUN	PV
2022	7	64415	RPNY Solar 1, LLC	IPP	Rock Island Road Solar Community Solar	NY	64964	ROCKI	3.5	Solar Photovoltaic	SUN	PV
2022	7	65318	SPPW1, LLC	IPP	SPPW1, LLC	NE	66195	T-1	2.8	Onshore Wind Turbine	WND	WT
2022	7	65318	SPPW1, LLC	IPP	SPPW1, LLC	NE	66195	T-2	2.8	Onshore Wind Turbine	WND	WT
2022	7	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S1	CA	64929	BESS	42.1	Batteries	MWH	BA
2022	7	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S3	CA	64928	BESS	35.1	Batteries	MWH	BA
2022	7	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	RC	2.0	Solar Photovoltaic	SUN	PV
2022	7	56773	Toyon Landfill Gas Conversion, LLC	IPP	Toyon Power Station	CA	54327	TOY7	0.9	Landfill Gas	LFG	IC
2022	7	65173	United States Solar Corporation	IPP	USS Foley Solar LLC	MN	64987	USSFS	1.0	Solar Photovoltaic	SUN	PV
2022	7	65173	United States Solar Corporation	IPP	USS Peach Solar LLC	MN	65276	USSPS	1.0	Solar Photovoltaic	SUN	PV
2022	7	61980	Valta Energy	IPP	20701 Plummer PV, LLC	CA	65794	VSPRC	1.5	Solar Photovoltaic	SUN	PV
2022	7	61980	Valta Energy	IPP	VS RXI Wilmington, LLC	CA	65795	VSPRC	1.0	Solar Photovoltaic	SUN	PV
2022	7	64808	Verizon Communications	IPP	Verizon Hidden Ridge Solar Project	TX	65571	VH750	0.8	Solar Photovoltaic	SUN	PV
2022	7	63225	Wister Solar	IPP	Wister Solar	CA	63487	WSOL	20.0	Solar Photovoltaic	SUN	PV
2022	8	61012	AES Distributed Energy	IPP	Brookwood Drive Community Solar	MA	64727	BESS	3.0	Batteries	MWH	BA
2022	8	61012	AES Distributed Energy	IPP	Brookwood Drive Community Solar	MA	64727	BRKWD	5.0	Solar Photovoltaic	SUN	PV
2022	8	62627	Alchemy Renewable Energy	IPP	Pinson Solar Farm	SC	63777	1310	20.0	Solar Photovoltaic	SUN	PV
2022	8	64722	Allie L.L.C.	IPP	Allie L.L.C.	MN	65381	PAPE	1.0	Solar Photovoltaic	SUN	PV
2022	8	64144	Arlington Energy Center II	IPP	Arlington Energy Center II	CA	64481	AEC2B	132.0	Batteries	MWH	BA

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

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	8	64199	Arlington Energy Center III	IPP	Arlington Energy Center III	CA	64564	AEC3	131.0	Solar Photovoltaic	SUN	PV
2022	8	64199	Arlington Energy Center III	IPP	Arlington Energy Center III	CA	64564	AEC3B	110.0	Batteries	MWH	BA
2022	8	64249	Big River Solar, LLC	IPP	Big River Solar	IL	64637	BRS	149.0	Solar Photovoltaic	SUN	PV
2022	8	64310	Bronx Community Clean Energy Project LLC	IPP	Fuel Cell 3245 Yates Avenue	NY	64747	C3245	5.0	Other Natural Gas	NG	FC
2022	8	64430	Calpine Greenleaf Holding, Inc.	IPP	Greenleaf 1	CA	10350	CTGA	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	64430	Calpine Greenleaf Holding, Inc.	IPP	Greenleaf 1	CA	10350	CTGB	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	16295	City of Roseville - (CA)	Electric Utility	Roseville Energy Park	CA	56298	0004	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	16295	City of Roseville - (CA)	Electric Utility	Roseville Energy Park	CA	56298	0005	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	64872	Distributed Solar Development, LLC	IPP	MD - PR97 (CSG)	MD	64689	90029	2.0	Solar Photovoltaic	SUN	PV
2022	8	64839	Dodge Renewables 1, LLC	IPP	Dodge Renewables 1	MN	65515	11049	1.0	Solar Photovoltaic	SUN	PV
2022	8	6455	Duke Energy Florida, LLC	Electric Utility	Cape San Blas	FL	63996	ES1	5.5	Batteries	MWH	BA
2022	8	6455	Duke Energy Florida, LLC	Electric Utility	Charlie Creek Solar Power Plant	FL	63982	PV1	74.9	Solar Photovoltaic	SUN	PV
2022	8	6455	Duke Energy Florida, LLC	Electric Utility	Fort Green Solar Power Plant	FL	64533	PV1	74.9	Solar Photovoltaic	SUN	PV
2022	8	6455	Duke Energy Florida, LLC	Electric Utility	Jennings Energy Storage Facility	FL	63998	ES1	5.5	Batteries	MWH	BA
2022	8	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG1	2.8	Onshore Wind Turbine	WND	WT
2022	8	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG2	2.8	Onshore Wind Turbine	WND	WT
2022	8	65076	HEN Infrastructure, L.L.C.	IPP	Caterina	TX	65809	CATER	9.9	Batteries	MWH	BA
2022	8	65076	HEN Infrastructure, L.L.C.	IPP	Lonestar	TX	65831	LNSTR	9.9	Batteries	MWH	BA
2022	8	65156	Kankakee Solar 2 LLC	IPP	Kankakee 2	IL	65969	KKS2	1.5	Solar Photovoltaic	SUN	PV
2022	8	64950	LI Solar Generation, LLC	IPP	Calverton Solar Energy Center	NY	65679	11933	22.9	Solar Photovoltaic	SUN	PV
2022	8	61944	MN8 Energy LLC	IPP	Dynamic Madison	ME	65859	GEN1	5.0	Solar Photovoltaic	SUN	PV
2022	8	65185	Maine DG Solar Harmony, LLC	IPP	Harmony Solar	ME	65996	HARM	4.9	Solar Photovoltaic	SUN	PV
2022	8	63082	ProEnergy Services	IPP	Braes Bayou Plant	TX	64383	CTG-1	44.5	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	64914	SR Jackson II, LLC	IPP	SR Jackson II	TN	65642	SRJA2	1.0	Solar Photovoltaic	SUN	PV
2022	8	16572	Salt River Project	Electric Utility	Agua Fria	AZ	141	AF7	42.7	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	16572	Salt River Project	Electric Utility	Agua Fria	AZ	141	AF8	42.7	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	60531	Standard Solar	IPP	USS Goodrich Solar	IL	63620	USGCH	2.7	Solar Photovoltaic	SUN	PV
2022	8	64276	Stanly Solar, LLC	IPP	Stanly Solar, LLC	NC	64702	PGR32	50.0	Solar Photovoltaic	SUN	PV
2022	8	64626	Star Peak Geothermal LLC.	IPP	Star Peak Geothermal Plant	NV	65773	3500	3.5	Geothermal	GEO	BT
2022	8	64626	Star Peak Geothermal LLC.	IPP	Star Peak Geothermal Plant	NV	65773	5100A	5.1	Geothermal	GEO	BT
2022	8	64626	Star Peak Geothermal LLC.	IPP	Star Peak Geothermal Plant	NV	65773	5100B	5.1	Geothermal	GEO	BT
2022	8	64626	Star Peak Geothermal LLC.	IPP	Star Peak Geothermal Plant	NV	65773	5200	5.2	Geothermal	GEO	BT
2022	8	64626	Star Peak Geothermal LLC.	IPP	Star Peak Geothermal Plant	NV	65773	STEAM	3.0	Geothermal	GEO	BT
2022	8	65183	Swoose II	IPP	Swoose II	TX	66008	BA	101.0	Batteries	MWH	BA
2022	8	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E1A	CA	64878	BESS	133.4	Batteries	MWH	BA
2022	8	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E1A	CA	64878	PV	149.3	Solar Photovoltaic	SUN	PV
2022	8	65323	Town of Amherst Solar, LLC	IPP	Town of Amherst Solar	MA	66182	AMHBA	2.5	Batteries	MWH	BA
2022	8	65323	Town of Amherst Solar, LLC	IPP	Town of Amherst Solar	MA	66182	AMHPV	2.5	Solar Photovoltaic	SUN	PV
2022	8	65173	United States Solar Corporation	IPP	USS Itasca Clean Energy Solar LLC	MN	65441	ITCBT	1.0	Batteries	MWH	BA
2022	8	65173	United States Solar Corporation	IPP	USS Itasca Clean Energy Solar LLC	MN	65441	USSTC	1.0	Solar Photovoltaic	SUN	PV
2022	8	65173	United States Solar Corporation	IPP	USS Rosebud Solar LLC	MN	64989	USRBS	1.0	Solar Photovoltaic	SUN	PV
2022	8	20856	Wisconsin Power & Light Co	Electric Utility	Portage Industrial Battery	WI	65530	BESS1	5.0	Batteries	MWH	BA
2022	9	61012	AES Distributed Energy	IPP	Lancaster Area Battery	CA	66050	LAB	127.0	Batteries	MWH	BA
2022	9	61012	AES Distributed Energy	IPP	West Haydenville PJ Community Solar	MA	64726	BESS	3.6	Batteries	MWH	BA
2022	9	61012	AES Distributed Energy	IPP	West Haydenville PJ Community Solar	MA	64726	WHAYD	5.0	Solar Photovoltaic	SUN	PV
2022	9	64568	BT Noble Solar, LLC	IPP	Noble Solar	TX	65271	NBSLR	275.0	Solar Photovoltaic	SUN	PV
2022	9	63827	Bioenergy DevCo	Industrial	Maryland Bioenergy Center (Jessup)	MD	64241	CHP1	1.1	Natural Gas Fired Combustion Turbine	NG	GT
2022	9	64108	Brazoria West Solar Project, LLC	IPP	Brazoria West	TX	64447	GEN1	200.0	Solar Photovoltaic	SUN	PV
2022	9	63226	CalCom Energy	IPP	Graniterock Quarry	CA	65485	GRWQ	4.4	Solar Photovoltaic	SUN	PV
2022	9	10606	City of Lake Mills	Electric Utility	Lake Mills	IA	1154	8	3.1	Petroleum Liquids	DFO	IC
2022	9	63260	Cobb Electric Membership Corporation	IPP	Solar BESS Hybrid	GA	63535	NG	1.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	9	56769	Consolidated Edison Development Inc.	IPP	UMass PV Lot 22	MA	65154	U22ES	2.0	Batteries	MWH	BA
2022	9	56769	Consolidated Edison Development Inc.	IPP	UMass PV Lot 22	MA	65154	U22PV	2.1	Solar Photovoltaic	SUN	PV
2022	9	64779	Cummins, Inc.	IPP	Cummins Whitakers PV Arrays	NC	65470	CWPVA	2.9	Solar Photovoltaic	SUN	PV
2022	9	64872	Distributed Solar Development, LLC	IPP	MD - CS - BGE - PR24 TPE	MD	65340	19003	2.0	Solar Photovoltaic	SUN	PV
2022	9	64840	Dodge Renewables 2, LLC	IPP	Dodge Renewables 2	MN	65516	11083	0.8	Solar Photovoltaic	SUN	PV
2022	9	58468	Dominion Renewable Energy	IPP	Meherrin Solar	VA	62758	MEHER	59.6	Solar Photovoltaic	SUN	PV
2022	9	6915	Galena Electric Utility	Electric Utility	Galena Electric Utility	AK	7437	3B	0.4	Petroleum Liquids	DFO	IC
2022	9	6915	Galena Electric Utility	Electric Utility	Galena Electric Utility	AK	7437	6B	0.4	Petroleum Liquids	DFO	IC
2022	9	60025	Greenbacker Renewable Energy Corporation	IPP	ER Bone Hill Solar, LLC	VT	65135	288	1.2	Solar Photovoltaic	SUN	PV
2022	9	60025	Greenbacker Renewable Energy Corporation	IPP	Gunnison Solar	UT	65618	524	1.5	Solar Photovoltaic	SUN	PV
2022	9	64282	LeConte Energy Storage, LLC	IPP	LeConte Energy Storage	CA	64701	LCES	125.0	Batteries	MWH	BA
2022	9	56990	NJR Clean Energy Ventures Corporation	IPP	Airport Road Solar (CSG)	NY	65385	AIRPT	3.4	Solar Photovoltaic	SUN	PV

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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	9	65349	NextGrid Mastic, LLC	IPP	Webb Road Solar	ME	66244	WEBRD	4.6	Solar Photovoltaic	SUN	PV
2022	9	63359	REA Investments, LLC	IPP	Novel Shelly Solar LLC (CSG)	MN	64154	SHLLY	1.0	Solar Photovoltaic	SUN	PV
2022	9	63359	REA Investments, LLC	IPP	Novel Stein Solar LLC CSG	MN	64563	STEIN	1.0	Solar Photovoltaic	SUN	PV
2022	9	64917	Rayos del Sol Solar Project, LLC	IPP	Vancourt Solar Interconnections	TX	65662	VAN1	45.0	Solar Photovoltaic	SUN	PV
2022	9	16572	Salt River Project	Electric Utility	Desert Basin	AZ	55129	CTG4	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	9	16572	Salt River Project	Electric Utility	Desert Basin	AZ	55129	CTG5	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	9	63718	Sunflower County Solar Project, LLC	IPP	Sunflower County	MS	64081	SUNFL	100.0	Solar Photovoltaic	SUN	PV
2022	9	65059	Sunlight Storage, LLC	IPP	Sunlight Storage	CA	65857	SUNS1	230.0	Batteries	MWH	BA
2022	9	65173	United States Solar Corporation	IPP	USS Water Fowl Solar LLC CSG	MN	63219	WTRFL	1.0	Solar Photovoltaic	SUN	PV
2022	9	64808	Verizon Communications	IPP	Verizon Hidden Ridge Solar Project	TX	65571	VH600	0.9	Solar Photovoltaic	SUN	PV
2022	9	64808	Verizon Communications	IPP	Verizon Hidden Ridge Solar Project	TX	65571	VH700	1.0	Solar Photovoltaic	SUN	PV
2022	9	64878	West Valley-Mission Community College District	IPP	West Valley Mission CCD Solar Project	CA	65570	WVMBM	0.9	Batteries	MWH	BA
2022	9	64878	West Valley-Mission Community College District	IPP	West Valley Mission CCD Solar Project	CA	65570	WVMSP	2.5	Solar Photovoltaic	SUN	PV
2022	9	20856	Wisconsin Power & Light Co	Electric Utility	Bear Creek	WI	65009	PV1	50.0	Solar Photovoltaic	SUN	PV
2022	10	60496	Adapture Renewables, Inc.	IPP	North Stonington Solar Center, LLC	CT	62318	PAWCA	15.0	Solar Photovoltaic	SUN	PV
2022	10	221	Alaska Village Elec Coop, Inc	Electric Utility	St Marys IC	AK	6338	1C	0.5	Petroleum Liquids	DFO	IC
2022	10	221	Alaska Village Elec Coop, Inc	Electric Utility	St Marys IC	AK	6338	2A	0.5	Petroleum Liquids	DFO	IC
2022	10	221	Alaska Village Elec Coop, Inc	Electric Utility	St Marys IC	AK	6338	3A	1.8	Petroleum Liquids	DFO	IC
2022	10	221	Alaska Village Elec Coop, Inc	Electric Utility	St Marys IC	AK	6338	4	1.8	Petroleum Liquids	DFO	IC
2022	10	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	PV	1.7	Solar Photovoltaic	SUN	PV
2022	10	15399	Avangrid Renewables LLC	IPP	Lund Hill Solar	WA	63509	LHS1	150.0	Solar Photovoltaic	SUN	PV
2022	10	64516	Azimuth 180 Solar Electric, LLC	IPP	Orioles Community Solar	NY	65163	ORIOI	5.6	Solar Photovoltaic	SUN	PV
2022	10	64568	BT Noble Solar, LLC	IPP	Noble Solar	TX	65271	NBSTG	125.0	Batteries	MWH	BA
2022	10	63575	Bluegrass Solar, LLC	IPP	Bluegrass Solar	MD	63910	BGS	79.6	Solar Photovoltaic	SUN	PV
2022	10	11332	City of Luverne - (MN)	Electric Utility	Luverne	MN	1990	5A	3.1	Petroleum Liquids	DFO	IC
2022	10	11332	City of Luverne - (MN)	Electric Utility	Luverne	MN	1990	5B	3.1	Petroleum Liquids	DFO	IC
2022	10	65164	CleanCapital Holdings	IPP	KDC Solar TC Blandair Park LLC	MD	65984	TCBP	2.0	Solar Photovoltaic	SUN	PV
2022	10	65164	CleanCapital Holdings	IPP	KDC Solar TC George Howard LLC	MD	65983	TCGH	2.0	Solar Photovoltaic	SUN	PV
2022	10	65164	CleanCapital Holdings	IPP	KDC Solar TC Little Patuxent WWTP LLC	MD	65982	TCLP	2.0	Solar Photovoltaic	SUN	PV
2022	10	5248	Dominion Energy Inc.	Electric Utility	Grassfield Solar	VA	64135	GFSO	20.0	Solar Photovoltaic	SUN	PV
2022	10	6455	Duke Energy Florida, LLC	Electric Utility	Micanopy Energy Storage Facility	FL	63999	ES1	8.3	Batteries	MWH	BA
2022	10	58970	Ecoplexus, Inc	IPP	CSP Los Angeles	CA	65182	CSLPA	2.3	Solar Photovoltaic	SUN	PV
2022	10	58970	Ecoplexus, Inc	IPP	Camp San Luis Obispo	CA	63870	CPSLO	1.2	Solar Photovoltaic	SUN	PV
2022	10	58970	Ecoplexus, Inc	IPP	Kern Valley SP	CA	63875	KRNVL	3.0	Solar Photovoltaic	SUN	PV
2022	10	64175	FPS Coxsackie Solar LLC	IPP	Coxsackie Solar	NY	64542	1	5.0	Solar Photovoltaic	SUN	PV
2022	10	59093	Hidden View Dairy, LLC	Industrial	Hidden View Dairy, LLC	IN	59260	HV3	0.9	Natural Gas Internal Combustion Engine	NG	IC
2022	10	9234	Indiana Municipal Power Agency	Electric Utility	Peru 3	IN	64250	PERU3	2.9	Solar Photovoltaic	SUN	PV
2022	10	49893	Invenergy Services LLC	IPP	Orangeville Storage	NY	64686	65002	24.7	Batteries	MWH	BA
2022	10	62912	Iris Solar LLC	IPP	Iris Solar LLC	LA	63128	ISLLC	50.0	Solar Photovoltaic	SUN	PV
2022	10	63289	Key Capture Energy	IPP	TX11 Republic Road Storage	TX	65694	TX11	50.0	Batteries	MWH	BA
2022	10	63289	Key Capture Energy	IPP	TX12 Silicon Hill Storage	TX	65695	TX12	100.0	Batteries	MWH	BA
2022	10	50123	Leeward Asset Management, LLC	IPP	Rabbitbrush Solar, LLC	CA	64630	GEN01	100.0	Solar Photovoltaic	SUN	PV
2022	10	50123	Leeward Asset Management, LLC	IPP	Rabbitbrush Solar, LLC	CA	64630	RBBAT	20.0	Batteries	MWH	BA
2022	10	61944	MN8 Energy LLC	IPP	Dynamic Corinth (CSG)	ME	65858	GEN1	5.0	Solar Photovoltaic	SUN	PV
2022	10	61944	MN8 Energy LLC	IPP	NY8 - Puckett Solar	NY	65125	GEN1	20.0	Solar Photovoltaic	SUN	PV
2022	10	64765	OYA Wayside Drive LLC	IPP	OYA Wayside Drive	NY	65434	NY003	5.0	Solar Photovoltaic	SUN	PV
2022	10	65266	Putah Creek Solar Farms LLC	IPP	Putah Creek Solar Farm North	CA	66088	PCEF	3.0	Solar Photovoltaic	SUN	PV
2022	10	64513	RE Crimson LLC	IPP	Crimson	CA	65140	SWSH1	200.0	Batteries	MWH	BA
2022	10	64513	RE Crimson LLC	IPP	Crimson	CA	65140	SWSH2	150.0	Batteries	MWH	BA
2022	10	63203	Selective Insurance	IPP	Selective Insurance	NJ	63459	9854	0.6	Solar Photovoltaic	SUN	PV
2022	10	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid (CSG)	MA	62974	SYMIS	5.0	Solar Photovoltaic	SUN	PV
2022	10	65173	United States Solar Corporation	IPP	USS Verbena Solar LLC	MN	65444	USSVS	1.0	Solar Photovoltaic	SUN	PV
2022	10	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST
2022	10	20856	Wisconsin Power & Light Co	Electric Utility	North Rock	WI	65010	PV1	50.0	Solar Photovoltaic	SUN	PV
2022	11	61012	AES Distributed Energy	IPP	Antelope Expansion 1B	CA	62320	ANE1B	17.0	Solar Photovoltaic	SUN	PV
2022	11	62627	Alchemy Renewable Energy	IPP	BE Solar LLC	GA	65728	GABE	3.0	Solar Photovoltaic	SUN	PV
2022	11	62627	Alchemy Renewable Energy	IPP	Rockmart	GA	65730	GARO	2.6	Solar Photovoltaic	SUN	PV
2022	11	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	BESS	1.5	Batteries	MWH	BA
2022	11	65322	Beacon Solar, LLC	IPP	Beacon Solar, LLC	MA	66181	BEABA	5.0	Batteries	MWH	BA
2022	11	65322	Beacon Solar, LLC	IPP	Beacon Solar, LLC	MA	66181	BEAPV	5.0	Solar Photovoltaic	SUN	PV
2022	11	64564	Byrd Ranch Storage LLC	IPP	Byrd Ranch Storage	TX	65259	P1	50.0	Batteries	MWH	BA
2022	11	65189	Cascade Solar LLC	IPP	Skalbeck Solar	MN	66016	SKAL	1.0	Solar Photovoltaic	SUN	PV
2022	11	57421	Chopin Wind, LLC	IPP	Schumann Wind Farm	OR	65737	SCH	8.0	Onshore Wind Turbine	WND	WT

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

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	11	64896	Clearwater Energy Resources LLC	IPP	Clearwater Wind I	MT	65577	CW1	365.5	Onshore Wind Turbine	WND	WT
2022	11	57365	Consolidated Edison Solutions Inc.	IPP	Mt Pleasant Community Center	NY	64442	MPES	0.7	Batteries	MWH	BA
2022	11	57365	Consolidated Edison Solutions Inc.	IPP	Mt Pleasant Community Center	NY	64442	MPPV	0.5	Solar Photovoltaic	SUN	PV
2022	11	64809	Doc Brown LLC	IPP	Danville BESS 1	VA	65499	90909	10.5	Batteries	MWH	BA
2022	11	62911	Drew Solar LLC	IPP	Drew Solar LLC	CA	63127	DS	100.0	Solar Photovoltaic	SUN	PV
2022	11	6455	Duke Energy Florida, LLC	Electric Utility	Bay Trail Solar Power Plant	FL	64145	PV1	74.9	Solar Photovoltaic	SUN	PV
2022	11	63653	Energix Nokesville, LLC	IPP	Energix Nokesville, LLC	VA	64012	ENX07	20.0	Solar Photovoltaic	SUN	PV
2022	11	61194	Generate Capital	IPP	Lockenhurst Pond Solar	NY	66223	11000	2.0	Solar Photovoltaic	SUN	PV
2022	11	60025	Greenbacker Renewable Energy Corporation	IPP	ER Sand Hill	VT	65619	289	2.2	Solar Photovoltaic	SUN	PV
2022	11	60025	Greenbacker Renewable Energy Corporation	IPP	Urtica Solar Project	WA	62067	URTIC	5.0	Solar Photovoltaic	SUN	PV
2022	11	9234	Indiana Municipal Power Agency	Electric Utility	Bremen	IN	65086	BREM	6.8	Solar Photovoltaic	SUN	PV
2022	11	49893	Invenergy Services LLC	IPP	Samson Solar Energy III LLC	TX	63883	GEN1	250.0	Solar Photovoltaic	SUN	PV
2022	11	49893	Invenergy Services LLC	IPP	Thunderhead Wind Energy LLC	NE	62956	GEN1	300.0	Onshore Wind Turbine	WND	WT
2022	11	65147	Java Solar, LLC	IPP	Java Solar, LLC	CA	65965	JAVA	13.5	Solar Photovoltaic	SUN	PV
2022	11	61750	Jefferson Solar	IPP	Jefferson Solar	SC	62233	47	8.2	Solar Photovoltaic	SUN	PV
2022	11	64900	MN CSG 2019-38 DE LLC	IPP	MN CSG 2019-38 DE LLC	MN	65632	REGEN	1.0	Solar Photovoltaic	SUN	PV
2022	11	64260	Nextera Energy Resources	IPP	Great Prairie Wind	TX	64665	GR01	1,027.0	Onshore Wind Turbine	WND	WT
2022	11	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU8	3.5	Conventional Hydroelectric	WAT	HY
2022	11	65160	Norton Powerhouse 2	Industrial	Norton Powerhouse 2	MA	66018	GEN3	3.3	Natural Gas Fired Combustion Turbine	NG	GT
2022	11	64766	OYA Pulaski LLC	IPP	OYA Pulaski	NY	65435	NY004	3.5	Solar Photovoltaic	SUN	PV
2022	11	63082	ProEnergy Services	IPP	Mark One Power Station	TX	65372	CTG-1	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2022	11	63082	ProEnergy Services	IPP	Mark One Power Station	TX	65372	CTG-2	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2022	11	63082	ProEnergy Services	IPP	Mark One Power Station	TX	65372	CTG-3	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2022	11	64095	RPCA Solar 3, LLC	IPP	Byron Highway Solar	CA	64471	BYHWY	5.0	Solar Photovoltaic	SUN	PV
2022	11	64363	SR Turkey Creek, LLC	IPP	SR Turkey Creek, LLC	KY	64842	SRTC	50.0	Solar Photovoltaic	SUN	PV
2022	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1138	1.5	Natural Gas Internal Combustion Engine	NG	IC
2022	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1258	2.5	Natural Gas Internal Combustion Engine	NG	IC
2022	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1260	2.5	Natural Gas Internal Combustion Engine	NG	IC
2022	11	65214	Solar Star Prime 6, LLC	IPP	Amazon MDW7 Solar Project	IL	66022	AMDW7	1.9	Solar Photovoltaic	SUN	PV
2022	11	60531	Standard Solar	IPP	OER Patuxent CSG	MD	65358	PATUX	2.8	Solar Photovoltaic	SUN	PV
2022	11	61516	Stratford Solar Center, LLC	IPP	Stratford Solar Center, LLC	VA	61908	STRAT	15.0	Solar Photovoltaic	SUN	PV
2022	11	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid CSG	MA	62971	SYWES	4.7	Solar Photovoltaic	SUN	PV
2022	11	63420	Taos Mesa Energy Facility, LLC	Electric Utility	Taos Mesa Energy Facility Hybrid	NM	63728	BESS	12.0	Batteries	MWH	BA
2022	11	63420	Taos Mesa Energy Facility, LLC	Electric Utility	Taos Mesa Energy Facility Hybrid	NM	63728	TMEF1	15.0	Solar Photovoltaic	SUN	PV
2022	11	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E1B	CA	65674	PV	154.4	Solar Photovoltaic	SUN	PV
2022	11	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S4	CA	65677	PV	41.2	Solar Photovoltaic	SUN	PV
2022	11	65330	Westbound Solar 3, LLC	Industrial	Niagara Bottling - Bloomfield	CT	66201	NBBRM	2.8	Solar Photovoltaic	SUN	PV
2022	12	61012	AES Distributed Energy	IPP	Letts Creek Solar, LLC	MI	64568	LETTS	15.0	Solar Photovoltaic	SUN	PV
2022	12	61012	AES Distributed Energy	IPP	Pullman Solar, LLC	MI	64581	PULMN	20.0	Solar Photovoltaic	SUN	PV
2022	12	61012	AES Distributed Energy	IPP	Water Street Solar	ME	66100	WATER	5.0	Solar Photovoltaic	SUN	PV
2022	12	62627	Alchemy Renewable Energy	IPP	Statesboro Solar LLC	GA	65727	GAST	3.0	Solar Photovoltaic	SUN	PV
2022	12	59496	Allete Clean Energy	IPP	Rock Aetna Power Partners	MN	65713	32005	20.0	Onshore Wind Turbine	WND	WT
2022	12	64655	Appaloosa Run Wind, LLC	IPP	Appaloosa Run Wind	TX	65335	WAPPA	171.8	Onshore Wind Turbine	WND	WT
2022	12	59474	BQ Energy LLC	IPP	West Valley East	NY	62738	WVE	5.0	Solar Photovoltaic	SUN	PV
2022	12	59474	BQ Energy LLC	IPP	West Valley West	NY	62737	WVW	5.0	Solar Photovoltaic	SUN	PV
2022	12	64424	Big Beau Solar, LLC	IPP	BigBeau Solar, LLC	CA	64993	BB1BA	40.0	Batteries	MWH	BA
2022	12	65039	Bishopville Solar II, LLC	IPP	Bishopville Solar II, LLC	SC	65781	BSHP2	10.0	Solar Photovoltaic	SUN	PV
2022	12	64459	Blythe Mesa Solar II, LLC	IPP	Blythe Mesa Solar II	CA	65053	BMSES	112.0	Batteries	MWH	BA
2022	12	64459	Blythe Mesa Solar II, LLC	IPP	Blythe Mesa Solar II	CA	65053	IPBMS	223.6	Solar Photovoltaic	SUN	PV
2022	12	65012	Buffalo Ridge Wind, LLC	IPP	Buffalo Ridge Wind	MN	65761	3161	101.8	Onshore Wind Turbine	WND	WT
2022	12	65002	Carnes Creek Solar, LLC	IPP	Carnes Creek Solar (CSG)	OR	65745	CAC22	2.5	Solar Photovoltaic	SUN	PV
2022	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC1	3.7	Other Natural Gas	NG	FC
2022	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC2	3.7	Other Natural Gas	NG	FC
2022	12	65003	Cosper Creek Solar, LLC	IPP	Cosper Creek Solar (CSG)	OR	65746	CC22	2.5	Solar Photovoltaic	SUN	PV
2022	12	64083	DG Central 1, LLC	IPP	Hornel CSG Solar	MN	65595	HORCS	1.0	Solar Photovoltaic	SUN	PV
2022	12	64609	ENGIE Solidago Solar LLC	IPP	ENGIE Solidago Solar Project - Hybrid	DE	65304	SOLAR	50.0	Solar Photovoltaic	SUN	PV
2022	12	65253	Electric Avenue Lunenburg Solar 1, LLC	IPP	Electric Avenue Lunenburg Solar 1	MA	66076	20410	1.0	Batteries	MWH	BA
2022	12	65158	Elora LLC	IPP	Timmerman (CSG)	MN	65974	TIMM	1.0	Solar Photovoltaic	SUN	PV
2022	12	62856	Forefront Power, LLC	IPP	UC Santa Cruz Solar	CA	63091	18027	1.0	Batteries	MWH	BA
2022	12	65004	Fruitland Creek Solar, LLC	IPP	Fruitland Creek Solar (CSG)	OR	65747	FC22	1.8	Solar Photovoltaic	SUN	PV
2022	12	60025	Greenbacker Renewable Energy Corporation	IPP	Cortez Solar 1, LLC	CO	66095	712	2.2	Solar Photovoltaic	SUN	PV
2022	12	60025	Greenbacker Renewable Energy Corporation	IPP	Maple City	IA	66068	704	1.5	Solar Photovoltaic	SUN	PV
2022	12	63499	Gunsight Solar, LLC	IPP	Gunsight Solar, LLC	SC	63813	PGR26	75.0	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2022	12	65040	Hickson Solar, LLC	IPP	Hickson Solar, LLC	SC	65779	HICK	2.0	Solar Photovoltaic	SUN	PV
2022	12	65321	Huxley Solar, LLC	IPP	Huxley Solar	MA	66180	HUXBA	5.0	Batteries	MWH	BA
2022	12	65321	Huxley Solar, LLC	IPP	Huxley Solar	MA	66180	HUXPV	5.0	Solar Photovoltaic	SUN	PV
2022	12	65037	Jackpot Holdings, LLC	Electric Utility	Jackpot Solar, LLC	ID	65778	JKPT	120.0	Solar Photovoltaic	SUN	PV
2022	12	65005	Kaiser Creek Solar, LLC	IPP	Kaiser Creek Solar (CSG)	OR	65748	KC22	2.0	Solar Photovoltaic	SUN	PV
2022	12	65121	Kearsarge West Shore Solar LLC	IPP	Kearsarge West Shore Solar LLC	RI	65954	PORT	5.0	Solar Photovoltaic	SUN	PV
2022	12	63289	Key Capture Energy	IPP	TX13 Endurance Park Storage	TX	65696	TX13	50.0	Batteries	MWH	BA
2022	12	63289	Key Capture Energy	IPP	TX23 Roughneck Storage	TX	65701	TX23	50.0	Batteries	MWH	BA
2022	12	64979	Kossuth County Wind, LLC	IPP	Kossuth County Wind	IA	65725	KCW	70.0	Onshore Wind Turbine	WND	WT
2022	12	64533	Lacy Creek Wind, LLC	IPP	Lacy Creek Wind Energy Center	TX	65162	LCW1	301.3	Onshore Wind Turbine	WND	WT
2022	12	64735	Ledyard Windpower, LLC	IPP	Ledyard Windpower, LLC	IA	65390	LDYRD	200.0	Onshore Wind Turbine	WND	WT
2022	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elk Hill Solar 1	PA	63773	PAEH1	20.0	Solar Photovoltaic	SUN	PV
2022	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Sun Mountain Solar 1	CO	65032	COSM1	200.0	Solar Photovoltaic	SUN	PV
2022	12	64611	Limestone Wind Project, LLC	IPP	Limestone Wind Project	TX	65306	LIMEW	299.2	Onshore Wind Turbine	WND	WT
2022	12	61944	MN8 Energy LLC	IPP	NY8 - Regan Solar	NY	65124	GEN1	20.0	Solar Photovoltaic	SUN	PV
2022	12	64714	Maplewood Solar	Electric Utility	Maplewood Solar	VA	65319	MAPL	120.0	Solar Photovoltaic	SUN	PV
2022	12	61227	Nautilus Solar Solutions	IPP	Pivot Solar 14 LLC (CSG)	CO	64650	SC	2.0	Solar Photovoltaic	SUN	PV
2022	12	61227	Nautilus Solar Solutions	IPP	Pivot Solar 15 LLC (CSG)	CO	64652	SC	1.0	Solar Photovoltaic	SUN	PV
2022	12	61227	Nautilus Solar Solutions	IPP	Pivot Solar 2 LLC (CSG)	CO	64651	SC	2.0	Solar Photovoltaic	SUN	PV
2022	12	64768	OYA Church Road A LLC	IPP	OYA Church Road	NY	65459	NY005	5.0	Solar Photovoltaic	SUN	PV
2022	12	64767	OYA Main Street LLC	IPP	OYA Main Street	NY	65436	NY006	5.0	Solar Photovoltaic	SUN	PV
2022	12	65041	Ogburn Solar, LLC	IPP	Ogburn Solar, LLC	SC	65780	OGBRN	2.0	Solar Photovoltaic	SUN	PV
2022	12	64909	Pisgah Ridge Solar, LLC	IPP	Pisgah Ridge Solar, LLC	TX	65631	PSGAH	250.0	Solar Photovoltaic	SUN	PV
2022	12	64912	SR Bolivar, LLC	IPP	SR Bolivar	TN	65640	SRBOL	3.3	Solar Photovoltaic	SUN	PV
2022	12	64361	SR Cedar Springs, LLC	IPP	SR Cedar Springs, LLC	GA	64840	SRCS	70.0	Solar Photovoltaic	SUN	PV
2022	12	64360	SR Clay, LLC	IPP	SR Clay, LLC	GA	64838	CLAY	106.0	Solar Photovoltaic	SUN	PV
2022	12	64362	SR DeSoto I, LLC	IPP	SR DeSoto I, LLC	GA	64841	SOTOI	165.0	Solar Photovoltaic	SUN	PV
2022	12	64910	SR Greenville I, LLC	IPP	SR Greenville I	TN	65638	SRGN1	4.8	Solar Photovoltaic	SUN	PV
2022	12	64911	SR Greenville II, LLC	IPP	SR Greenville II	TN	65639	SRGN2	4.8	Solar Photovoltaic	SUN	PV
2022	12	64913	SR Paris, LLC	IPP	SR Paris	TN	65641	SRPAR	6.8	Solar Photovoltaic	SUN	PV
2022	12	65007	Sandy River Solar, LLC	IPP	Sandy River Solar (CSG)	OR	65750	SR22	1.9	Solar Photovoltaic	SUN	PV
2022	12	65008	Sesqui-C Solar, LLC	IPP	Sesqui-C Solar (CSG)	OR	65751	SC22	2.5	Solar Photovoltaic	SUN	PV
2022	12	64608	Sun Valley Solar LLC	IPP	Sun Valley Solar Project	TX	65303	SUNS	250.0	Solar Photovoltaic	SUN	PV
2022	12	64612	Sunnybrook Farm Solar, LLC	IPP	Sunnybrook Solar Project - Hybrid	VA	65307	SUNS	51.0	Solar Photovoltaic	SUN	PV
2022	12	18454	Tampa Electric Co	Electric Utility	Laurel Oaks Solar	FL	65684	1	61.2	Solar Photovoltaic	SUN	PV
2022	12	18454	Tampa Electric Co	Electric Utility	Riverside Solar	FL	65687	1	55.0	Solar Photovoltaic	SUN	PV
2022	12	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E4	CA	65675	PV	148.9	Solar Photovoltaic	SUN	PV
2022	12	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E5	CA	65676	PV	66.0	Solar Photovoltaic	SUN	PV
2022	12	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN13	10.0	Natural Gas Steam Turbine	NG	ST
2022	12	19664	University of Washington	Commercial	University of Washington Power Plant	WA	54809	DRUPS	2.0	Petroleum Liquids	DFO	IC
2022	12	65015	Walleye Wind, LLC	IPP	Walleye Wind	MN	65764	WWLLC	110.0	Onshore Wind Turbine	WND	WT
2022	12	64315	Walmart Stores Texas, LLC	Commercial	WAL1801	TX	64884	GEN1	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	12	64315	Walmart Stores Texas, LLC	Commercial	WAL1801	TX	64884	GEN2	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	12	64315	Walmart Stores Texas, LLC	Commercial	WAL1801	TX	64884	GEN3	0.4	Natural Gas Internal Combustion Engine	NG	IC
2022	12	65288	West Line Solar, LLC	IPP	West Line Solar, LLC	AZ	66125	WESTL	100.0	Solar Photovoltaic	SUN	PV
2022	12	20856	Wisconsin Power & Light Co	Electric Utility	Wood County	WI	65011	PV1	150.0	Solar Photovoltaic	SUN	PV
2022	12	65013	Young Wind, LLC	IPP	Young Wind	TX	65763	WYOUN	500.0	Onshore Wind Turbine	WND	WT

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, Month, and Year

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	1	463	Ameresco LFG I Inc	IPP	AI Turi	NY	10549	2	0.8	Landfill Gas	LFG	IC
2022	1	463	Ameresco LFG I Inc	IPP	AI Turi	NY	10549	3	0.8	Landfill Gas	LFG	IC
2022	1	463	Ameresco LFG I Inc	IPP	AI Turi	NY	10549	3010	0.8	Landfill Gas	LFG	IC
2022	1	3179	Caterpillar Inc	Industrial	Caterpillar	IN	50935	ET1	2.0	Natural Gas Internal Combustion Engine	NG	IC
2022	1	55997	Domtar Paper Company Rothschild	Industrial	Domtar Paper Company Rothschild	WI	50190	HG1	0.6	Conventional Hydroelectric	WAT	HY
2022	1	55997	Domtar Paper Company Rothschild	Industrial	Domtar Paper Company Rothschild	WI	50190	HG2	0.5	Conventional Hydroelectric	WAT	HY
2022	1	55997	Domtar Paper Company Rothschild	Industrial	Domtar Paper Company Rothschild	WI	50190	HG4	0.5	Conventional Hydroelectric	WAT	HY
2022	1	55997	Domtar Paper Company Rothschild	Industrial	Domtar Paper Company Rothschild	WI	50190	HG5	1.0	Conventional Hydroelectric	WAT	HY
2022	1	55997	Domtar Paper Company Rothschild	Industrial	Domtar Paper Company Rothschild	WI	50190	HG6	0.7	Conventional Hydroelectric	WAT	HY
2022	1	7140	Georgia Power Co	Electric Utility	Scherer	GA	6257	4	860.0	Conventional Steam Coal	SUB	ST
2022	1	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	2	74.8	Conventional Steam Coal	LIG	ST
2022	2	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	1	29.5	Conventional Steam Coal	LIG	ST
2022	2	65241	Terreva Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU1	0.7	Landfill Gas	LFG	IC
2022	2	65241	Terreva Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU2	0.7	Landfill Gas	LFG	IC
2022	2	65241	Terreva Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU3	0.7	Landfill Gas	LFG	IC
2022	2	65241	Terreva Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU4	0.7	Landfill Gas	LFG	IC
2022	3	1015	Austin Energy	Electric Utility	Decker Creek	TX	3548	2	404.0	Natural Gas Steam Turbine	NG	ST
2022	3	768	City of Arcanum - (OH)	Electric Utility	Arcanum	OH	2902	1	0.8	Petroleum Liquids	DFO	IC
2022	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Hardeeville	SC	3286	1	9.0	Petroleum Liquids	DFO	GT
2022	3	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	3	170.0	Natural Gas Steam Turbine	NG	ST
2022	3	14165	GenOn Power Midwest, LP	IPP	Avon Lake	OH	2836	10	25.0	Petroleum Liquids	DFO	GT
2022	3	14165	GenOn Power Midwest, LP	IPP	Avon Lake	OH	2836	9	627.0	Conventional Steam Coal	BIT	ST
2022	3	14165	GenOn Power Midwest, LP	IPP	Cheswick Power Plant	PA	8226	1	565.0	Conventional Steam Coal	BIT	ST
2022	3	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	3	2.0	Petroleum Liquids	DFO	IC
2022	3	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	4	2.0	Petroleum Liquids	DFO	IC
2022	3	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	5	2.0	Petroleum Liquids	DFO	IC
2022	3	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Water Treatment Plant	OK	55987	6	2.0	Petroleum Liquids	DFO	IC
2022	4	20806	City of Windom	Electric Utility	Windom	MN	2023	GT1	2.5	Petroleum Liquids	DFO	GT
2022	4	56125	Community Eco Springfield LLC	Commercial	Pioneer Valley Resource Recovery	MA	50273	DLV1	7.5	Municipal Solid Waste	MSW	ST
2022	4	13579	Dunkirk Power LLC	IPP	Dunkirk Generating Plant	NY	2554	1	75.0	Conventional Steam Coal	SUB	ST
2022	4	13579	Dunkirk Power LLC	IPP	Dunkirk Generating Plant	NY	2554	3	185.0	Conventional Steam Coal	SUB	ST
2022	4	13579	Dunkirk Power LLC	IPP	Dunkirk Generating Plant	NY	2554	ST4	185.0	Conventional Steam Coal	SUB	ST
2022	4	24205	HF Sinclair Parco Refining LLC	Industrial	Sinclair Oil Refinery	WY	54374	2004	1.3	Natural Gas Internal Combustion Engine	NG	IC
2022	4	24205	HF Sinclair Parco Refining LLC	Industrial	Sinclair Oil Refinery	WY	54374	2006	1.3	Natural Gas Internal Combustion Engine	NG	IC
2022	4	24205	HF Sinclair Parco Refining LLC	Industrial	Sinclair Oil Refinery	WY	54374	2008	1.3	Natural Gas Internal Combustion Engine	NG	IC
2022	4	13809	NorthWestern Energy - (SD)	Electric Utility	Huron	SD	3344	1	11.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Fishbach	PA	3142	UNT1	14.0	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Fishbach	PA	3142	UNT2	14.0	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Jenkins	PA	3146	CTG1	13.8	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Jenkins	PA	3146	CTG2	13.8	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Lock Haven	PA	3147	CTG	14.0	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC West Shore	PA	3154	CTG1	14.0	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC West Shore	PA	3154	CTG2	14.0	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Williamsport	PA	3155	CTG1	13.2	Petroleum Liquids	DFO	GT
2022	4	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Williamsport	PA	3155	CTG2	13.4	Petroleum Liquids	DFO	GT
2022	5	60960	Deutsche Bank	IPP	Deutsche Bank- Piscataway Solar	NJ	60803	DBPIS	1.0	Solar Photovoltaic	SUN	PV
2022	5	59920	Dynegy W H Zimmer	IPP	W H Zimmer	OH	6019	ST1	1,305.0	Conventional Steam Coal	RC	ST
2022	5	55858	EDL Inc	IPP	Ottawa County Project	OH	56865	1	1.4	Landfill Gas	LFG	IC
2022	5	55858	EDL Inc	IPP	Ottawa County Project	OH	56865	2	1.4	Landfill Gas	LFG	IC
2022	5	8641	Hillman Power Co	IPP	Hillman Power LLC	MI	10346	GEN1	17.7	Wood/Wood Waste Biomass	WDS	ST
2022	5	63046	Logan Generating Company LP	Electric CHP	Logan Generating Plant	NJ	10043	GEN1	219.0	Conventional Steam Coal	BIT	ST
2022	5	55846	Newark Bay Cogeneration Partnership LP	IPP	Newark Bay Cogeneration Partnership LP	NJ	50385	GEN1	120.2	Natural Gas Fired Combined Cycle	NG	CT
2022	5	55846	Newark Bay Cogeneration Partnership LP	IPP	Newark Bay Cogeneration Partnership LP	NJ	50385	GEN2	120.2	Natural Gas Fired Combined Cycle	NG	CT
2022	5	55846	Newark Bay Cogeneration Partnership LP	IPP	Newark Bay Cogeneration Partnership LP	NJ	50385	GEN3	120.2	Natural Gas Fired Combined Cycle	NG	CA
2022	5	50160	Pedricktown Cogeneration Company LP	IPP	Pedricktown Cogeneration Company LP	NJ	10099	GEN1	112.8	Natural Gas Fired Combined Cycle	NG	CT
2022	5	50160	Pedricktown Cogeneration Company LP	IPP	Pedricktown Cogeneration Company LP	NJ	10099	GEN2	112.8	Natural Gas Fired Combined Cycle	NG	CA
2022	5	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Harwood	PA	3144	CTG1	12.9	Petroleum Liquids	DFO	GT
2022	5	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Harwood	PA	3144	CTG2	12.3	Petroleum Liquids	DFO	GT
2022	6	58835	Akron Energy Systems LLC	Commercial	Akron Recycle Energy Plant	OH	54265	1	2.0	Natural Gas Steam Turbine	NG	ST
2022	6	58835	Akron Energy Systems LLC	Commercial	Akron Recycle Energy Plant	OH	54265	2	2.0	Natural Gas Steam Turbine	NG	ST
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	768.5	Nuclear	NUC	ST
2022	6	60268	Hartz Solar, LLC	Commercial	Jefferson Avenue	NJ	60499	1	1.7	Solar Photovoltaic	SUN	PV
2022	6	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO 1	7.8	Wood/Wood Waste Biomass	BLQ	ST

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

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	6	12653	Lanyard Power Holdings, LLC	IPP	Morgantown Generating Plant	MD	1573	ST1	596.0	Conventional Steam Coal	BIT	ST
2022	6	12653	Lanyard Power Holdings, LLC	IPP	Morgantown Generating Plant	MD	1573	ST2	609.0	Conventional Steam Coal	BIT	ST
2022	6	12384	Midwest Generations EME LLC	IPP	Waukegan	IL	883	7	328.0	Conventional Steam Coal	SUB	ST
2022	6	12384	Midwest Generations EME LLC	IPP	Waukegan	IL	883	8	361.0	Conventional Steam Coal	SUB	ST
2022	6	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2022	6	56401	NAEA Energy Massachusetts LLC	IPP	Doreen	MA	1631	DORE	16.1	Petroleum Liquids	KER	GT
2022	6	56401	NAEA Energy Massachusetts LLC	IPP	Essential Power Massachusetts LLC	MA	1642	GT-1	33.3	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	56401	NAEA Energy Massachusetts LLC	IPP	Essential Power Massachusetts LLC	MA	1642	GT-2	33.4	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	56401	NAEA Energy Massachusetts LLC	IPP	Essential Power Massachusetts LLC	MA	1642	WS10	17.1	Petroleum Liquids	KER	GT
2022	6	56401	NAEA Energy Massachusetts LLC	IPP	Woodland Road	MA	1643	WOOD	16.5	Petroleum Liquids	KER	GT
2022	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	9	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	1	340.0	Conventional Steam Coal	RC	ST
2022	6	16548	St Francis Hospital	Commercial	Saint Francis Hospital	IL	50952	GEN1	0.8	Natural Gas Internal Combustion Engine	NG	IC
2022	6	16548	St Francis Hospital	Commercial	Saint Francis Hospital	IL	50952	GEN2	0.8	Natural Gas Internal Combustion Engine	NG	IC
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martin Creek LLC Allentown	PA	3139	CTG1	14.0	Petroleum Liquids	DFO	GT
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martin Creek LLC Allentown	PA	3139	CTG2	14.0	Petroleum Liquids	DFO	GT
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martin Creek LLC Allentown	PA	3139	CTG3	14.0	Petroleum Liquids	DFO	GT
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martin Creek LLC Allentown	PA	3139	CTG4	14.0	Petroleum Liquids	DFO	GT
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek	PA	3148	CTG3	18.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Harrisburg	PA	3143	CTG1	13.4	Petroleum Liquids	DFO	GT
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Harrisburg	PA	3143	CTG2	13.9	Petroleum Liquids	DFO	GT
2022	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek LLC Harrisburg	PA	3143	CTG3	13.8	Petroleum Liquids	DFO	GT
2022	6	2674	Tesoro Refining & Marketing Company LLC	Industrial	Tesoro Wilmington Calciner	CA	10601	GEN1	30.7	All Other	WH	ST
2022	7	59717	Joliet Battery Storage LLC	IPP	Jake Energy Storage Center	IL	59960	JBS	19.8	Batteries	MWH	BA
2022	7	4426	NAES Corp	IPP	CT Resource Rec Authority Facility	CT	54945	NO 5	28.8	Municipal Solid Waste	MSW	ST
2022	7	4426	NAES Corp	IPP	CT Resource Rec Authority Facility	CT	54945	NO 6	29.7	Municipal Solid Waste	MSW	ST
2022	7	19153	Nassau Energy Corp	Electric CHP	Nassau Energy Corp	NY	52056	GT1	38.0	Natural Gas Fired Combined Cycle	NG	CT
2022	7	19153	Nassau Energy Corp	Electric CHP	Nassau Energy Corp	NY	52056	ST1	12.0	Natural Gas Fired Combined Cycle	NG	CA
2022	7	60558	Rock County Energy Center, LLC	IPP	Minwind 3-9	MN	56123	1	11.6	Onshore Wind Turbine	WND	WT
2022	7	871	Village of Arnold - (NE)	Electric Utility	Arnold	NE	2216	1	0.5	Petroleum Liquids	DFO	IC
2022	7	871	Village of Arnold - (NE)	Electric Utility	Arnold	NE	2216	2A	0.1	Petroleum Liquids	DFO	IC
2022	7	871	Village of Arnold - (NE)	Electric Utility	Arnold	NE	2216	3	0.2	Petroleum Liquids	DFO	IC
2022	7	871	Village of Arnold - (NE)	Electric Utility	Arnold	NE	2216	4	0.2	Petroleum Liquids	DFO	IC
2022	7	59718	West Chicago Battery Storage LLC	IPP	Elwood Energy Storage Center	IL	59959	WCBS	19.8	Batteries	MWH	BA
2022	8	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	1	158.0	Conventional Steam Coal	RC	ST
2022	8	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	2	158.0	Conventional Steam Coal	RC	ST
2022	8	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	3	158.0	Conventional Steam Coal	RC	ST
2022	8	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	4	158.0	Conventional Steam Coal	RC	ST
2022	8	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	5	158.0	Conventional Steam Coal	RC	ST
2022	8	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	6	158.0	Conventional Steam Coal	RC	ST
2022	8	12159	Midwest Electric Power Inc	IPP	MEPI GT Facility	IL	7858	1	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	12159	Midwest Electric Power Inc	IPP	MEPI GT Facility	IL	7858	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	12159	Midwest Electric Power Inc	IPP	MEPI GT Facility	IL	7858	3	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	12159	Midwest Electric Power Inc	IPP	MEPI GT Facility	IL	7858	4	37.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	12159	Midwest Electric Power Inc	IPP	MEPI GT Facility	IL	7858	5	37.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	8	59892	UCI Fuel Cell, LLC	Electric CHP	UCI Fuel Cell	CA	60120	MB-16	1.4	Other Natural Gas	NG	FC
2022	9	177	AES Hawaii LLC	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	SUB	ST
2022	9	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	6	77.0	Conventional Steam Coal	SUB	ST
2022	9	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	7	131.0	Natural Gas Steam Turbine	NG	ST
2022	9	6915	Galena Electric Utility	Electric Utility	Galena Electric Utility	AK	7437	1A	0.8	Petroleum Liquids	DFO	IC
2022	9	6915	Galena Electric Utility	Electric Utility	Galena Electric Utility	AK	7437	3A	0.8	Petroleum Liquids	DFO	IC
2022	9	9130	Hutchinson Utilities Comm	Electric Utility	Hutchinson Plant #1	MN	1980	3	3.9	Natural Gas Internal Combustion Engine	NG	IC
2022	9	12653	Lanyard Power Holdings, LLC	IPP	Morgantown Generating Plant	MD	1573	GT1	13.0	Petroleum Liquids	DFO	GT
2022	9	12653	Lanyard Power Holdings, LLC	IPP	Morgantown Generating Plant	MD	1573	GT2	13.0	Petroleum Liquids	DFO	GT
2022	9	57250	MM Prima Deshecha Energy LLC	IPP	Prima Plant	CA	55601	UNT1	2.7	Landfill Gas	LFG	IC
2022	9	57250	MM Prima Deshecha Energy LLC	IPP	Prima Plant	CA	55601	UNT2	2.7	Landfill Gas	LFG	IC
2022	9	58098	New Energy One LLC	IPP	Rock Creek Dairy	ID	58142	CHP1	1.6	Other Waste Biomass	OBG	IC
2022	9	58098	New Energy One LLC	IPP	Rock Creek Dairy	ID	58142	CHP2	1.6	Other Waste Biomass	OBG	IC
2022	9	57301	Orchard Mesa Irrigation District	Electric Utility	Grand Valley Project Power Plant	CO	473	1	1.5	Conventional Hydroelectric	WAT	HY
2022	9	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	4	507.0	Conventional Steam Coal	RC	ST
2022	9	17554	South Carolina Genertg Co, Inc	Electric Utility	Williams	SC	3298	1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	9	17554	South Carolina Genertg Co, Inc	Electric Utility	Williams	SC	3298	2	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	9	30151	Tri-State G & T Assn, Inc	Electric Utility	Rifle Generating Station	CO	10755	GT2	13.0	Natural Gas Fired Combined Cycle	NG	CT

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

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	9	30151	Tri-State G & T Assn, Inc	Electric Utility	Rifle Generating Station	CO	10755	GT3	13.0	Natural Gas Fired Combined Cycle	NG	CT
2022	9	30151	Tri-State G & T Assn, Inc	Electric Utility	Rifle Generating Station	CO	10755	GT4	13.0	Natural Gas Fired Combined Cycle	NG	CT
2022	9	30151	Tri-State G & T Assn, Inc	Electric Utility	Rifle Generating Station	CO	10755	ST1	34.0	Natural Gas Fired Combined Cycle	NG	CA
2022	9	19664	University of Washington	Commercial	University of Washington Power Plant	WA	54809	TG2	5.0	Natural Gas Steam Turbine	NG	ST
2022	9	20680	William Beaumont Hospital	Commercial	William Beaumont Hospital	MI	50937	GENA	1.9	Petroleum Liquids	DFO	IC
2022	9	20680	William Beaumont Hospital	Commercial	William Beaumont Hospital	MI	50937	GENB	1.9	Petroleum Liquids	DFO	IC
2022	9	20707	Wintec Energy Ltd	IPP	Wintec Energy Ltd	CA	50276	EXIS	5.9	Onshore Wind Turbine	WND	WT
2022	10	5773	City of Elk River	Electric Utility	Elk River City of	MN	1971	5	0.8	Landfill Gas	LFG	IC
2022	10	5773	City of Elk River	Electric Utility	Elk River City of	MN	1971	6	0.8	Landfill Gas	LFG	IC
2022	10	5773	City of Elk River	Electric Utility	Elk River City of	MN	1971	7	0.8	Landfill Gas	LFG	IC
2022	10	5773	City of Elk River	Electric Utility	Elk River City of	MN	1971	8	0.8	Landfill Gas	LFG	IC
2022	10	12653	Lanyard Power Holdings, LLC	IPP	Dickerson Power	MD	1572	GT1	18.0	Petroleum Liquids	DFO	GT
2022	10	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN3	1.0	Natural Gas Internal Combustion Engine	NG	IC
2022	10	27075	San Diego County Water Auth	IPP	Rancho Penasquitos	CA	56615	G100	3.6	Conventional Hydroelectric	WAT	HY
2022	11	221	Alaska Village Elec Coop, Inc	Electric Utility	St Marys IC	AK	6338	1B	0.5	Petroleum Liquids	DFO	IC
2022	11	221	Alaska Village Elec Coop, Inc	Electric Utility	St Marys IC	AK	6338	2	0.6	Petroleum Liquids	DFO	IC
2022	11	221	Alaska Village Elec Coop, Inc	Electric Utility	St Marys IC	AK	6338	3	0.9	Petroleum Liquids	DFO	IC
2022	11	1276	Barrow Utils & Elec Coop, Inc	Electric Utility	Barrow	AK	7173	10	1.5	Natural Gas Internal Combustion Engine	NG	IC
2022	11	1276	Barrow Utils & Elec Coop, Inc	Electric Utility	Barrow	AK	7173	9	1.5	Natural Gas Internal Combustion Engine	NG	IC
2022	11	4226	Consolidated Edison Co-NY Inc	Electric Utility	Hudson Avenue	NY	2496	GT3	13.5	Petroleum Liquids	KER	GT
2022	11	4226	Consolidated Edison Co-NY Inc	Electric Utility	Hudson Avenue	NY	2496	GT5	14.1	Petroleum Liquids	KER	GT
2022	12	59496	Allete Clean Energy	IPP	Chanarambie Power Partners, LLC	MN	56142	WND1	85.5	Onshore Wind Turbine	WND	WT
2022	12	59496	Allete Clean Energy	IPP	Viking Wind Partners	MN	56153	1	12.0	Onshore Wind Turbine	WND	WT
2022	12	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	2	154.0	Conventional Steam Coal	RC	ST
2022	12	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	3	160.0	Conventional Steam Coal	RC	ST
2022	12	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	6	311.0	Conventional Steam Coal	RC	ST
2022	12	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	7	440.0	Conventional Steam Coal	RC	ST
2022	12	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	9	495.0	Conventional Steam Coal	SUB	ST
2022	12	49756	Illinois Power Resources Generating LLC	IPP	E D Edwards	IL	856	2	245.0	Conventional Steam Coal	SUB	ST
2022	12	49756	Illinois Power Resources Generating LLC	IPP	E D Edwards	IL	856	3	315.0	Conventional Steam Coal	SUB	ST
2022	12	10071	Kauai Island Utility Cooperative	Electric Utility	KRS I Anahola Solar Hybrid	HI	58639	B5B6	6.0	Batteries	MWH	BA
2022	12	62112	Overlook Medical Center	Commercial	Overlook Medical Center	NJ	62622	CHPS2	1.0	Natural Gas Internal Combustion Engine	NG	IC
2022	12	50045	Phillips 66 Company	Industrial	Santa Maria EPG	CA	56284	EPG	5.3	Other Gases	OG	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	17609	Southern California Edison Co	Electric Utility	Tehachapi Energy Storage Project	CA	59661	TSP1	8.0	Batteries	MWH	BA
2022	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	1	113.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	2	113.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	3	220.0	Conventional Steam Coal	SUB	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	4	290.0	Conventional Steam Coal	SUB	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)
2023	1	64904	AES Clean Energy	IPP	AES Daigle Solar, LLC	ME	66136	DGLE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	64904	AES Clean Energy	IPP	AES Pelletier Solar, LLC	ME	66135	PELLR	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2023	1	61012	AES Distributed Energy	IPP	Cement City Solar, LLC	MI	64567	CMCTY	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	1	64527	ASA DeKalb NY Solar I LLC	IPP	ASA DeKalb NY Solar I LLC	NY	65156	DEK1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	64526	ASA DeKalb NY Solar II LLC	IPP	ASA DeKalb NY Solar II LLC	NY	65155	DEK2	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	1	64484	ASA DeKalb NY Solar III LLC	IPP	ASA DeKalb NY Solar III LLC	NY	65067	DEK3	3.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.3
2023	1	64530	ASA Gouverneur NY Solar II LLC	IPP	ASA Gouverneur NY Solar II LLC	NY	65158	GOV2	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2023	1	64531	ASA Volney NY Solar I LLC	IPP	ASA Volney NY Solar I LLC	NY	65159	VOL1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	61514	Agillitas Energy, LLC	IPP	Old Middleboro Road Solar	MA	64759	OLD	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	1	61514	Agillitas Energy, LLC	IPP	Old Middleboro Road Solar	MA	64759	OLDBA	4.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	4.5
2023	1	62627	Alchemy Renewable Energy	IPP	Brady Solar LLC	GA	65729	GABR	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2023	1	59496	Allete Clean Energy	IPP	Northern Wind	MN	65714	32004	100.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	100.0
2023	1	63494	Allora Solar, LLC	IPP	Allora Solar, LLC	SC	63808	PGR30	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2023	1	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GENS	1.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	1.8
2023	1	63722	Alta Farms II Wind Project, LLC	IPP	Alta Farms II Wind Project, LLC	IL	64088	WT2	200.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.5
2023	1	64273	Angel Fire Energy Facility, LLC	Electric Utility	Angel Fire Energy Facility	NM	64695	BESS	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2023	1	64273	Angel Fire Energy Facility, LLC	Electric Utility	Angel Fire Energy Facility	NM	64695	TMEF1	9.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.8
2023	1	63784	Azure Sky Wind Project, LLC	IPP	Azure Sky Wind Project, LLC Hybrid	TX	64164	ASWBE	120.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	120.0
2023	1	63784	Azure Sky Wind Project, LLC	IPP	Azure Sky Wind Project, LLC Hybrid	TX	64164	ASWWT	350.2	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	350.2
2023	1	64285	BCD Project Holdings 1, LLC	IPP	CL-Viaduct LLC	PA	64709	GSF01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	1	64285	BCD Project Holdings 1, LLC	IPP	UN-School House LLC	PA	64711	GSF01	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2023	1	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-1H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2023	1	64266	Blue Jay Solar I, LLC	IPP	Blue Jay Solar I, LLC	TX	64672	BLUEJ	210.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	210.0
2023	1	64266	Blue Jay Solar I, LLC	IPP	Blue Jay Solar I, LLC	TX	64672	BLUJS	210.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	210.0
2023	1	56310	Boise White Paper LLC	Industrial	Packaging Corp. of America Jackson Mill	AL	55044	STG2	26.8	Wood/Wood Waste Biomass	BLQ	ST	(V) Under construction, more than 50 percent complete	26.8
2023	1	64505	Cabin Creek Solar, LLC	IPP	Cabin Creek Solar, LLC	NC	65107	PGR34	70.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.2
2023	1	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	8	1.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.8
2023	1	65055	Concho Valley Solar, LLC	IPP	Concho Valley Solar, LLC	TX	65793	CVS	159.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	172.8
2023	1	5248	Dominion Energy Inc.	Electric Utility	Otter Creek Solar	VA	63909	OTTER	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2023	1	6455	Duke Energy Florida, LLC	Electric Utility	Lake Placid Solar Power Plant	FL	62541	ES1	17.3	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	17.3
2023	1	59380	Enel Green Power NA, Inc.	IPP	25 Mile Creek	OK	65511	44444	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2023	1	64438	Enel Green Power Roseland Solar, LLC	IPP	Roseland Solar Project, LLC	TX	65028	ROSEB	59.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	59.1
2023	1	64438	Enel Green Power Roseland Solar, LLC	IPP	Roseland Solar Project, LLC	TX	65028	ROSES	500.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	500.0
2023	1	64428	Eergy, Inc.	IPP	Hawthorn Solar I	MO	65296	HAW10	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	1	63081	Exus North America Management Partners LLC	IPP	Bearkat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	162.1
2023	1	6452	Florida Power & Light Co	Electric Utility	Anhinga Solar Energy Center	FL	65431	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	Apalachee	FL	65432	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	Blackwater River Solar Energy Center	FL	65433	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	Bluefield Preserve Solar	FL	65420	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	Everglades Solar Energy Center	FL	65423	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	FPL Cavendish Solar Energy Center	FL	65438	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	FPL Chipola River Solar Energy Center	FL	65422	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	FPL Flowers Creek Solar Energy Center	FL	65427	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	First City Solar Energy Center	FL	65424	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	6452	Florida Power & Light Co	Electric Utility	Pink Trail Solar Energy Center	FL	65428	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	1	62856	Forefront Power, LLC	IPP	Amazon - Stockton - Roof (SCK1) - (CA)	CA	64429	19001	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2023	1	62856	Forefront Power, LLC	IPP	CA - Amazon - SMF6	CA	65616	20031	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2023	1	62856	Forefront Power, LLC	IPP	CA - Ventura Co CCD - Moorpark College	CA	65365	17024	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2023	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	35T1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	40.0
2023	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	102.0
2023	1	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
2023	1	61194	Generate Capital	IPP	Dunkleman Solar	NY	66219	11008	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	64989	Great Pathfinder Wind	IPP	Great Pathfinder Wind	IA	65715	GPFWF	224.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	224.4
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	Bizer Creek	NY	66094	561	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	DIA 8	CO	65806	528	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	ER Bison Solar	PA	66097	371	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	IGS LAS1	NV	66099	459	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	IGS SBD1	CA	66035	457	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	IGS SBD2	CA	66039	457	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	MTSUN	MT	64032	MTSUN	80.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	80.0
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	Millersport GM 1	NY	65309	532	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2023	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	(TS) Construction complete, but not yet in commercial operation	3.7
2023	1	65076	HEN Infrastructure, L.L.C.	IPP	Holcomb (TX)	TX	65829	HOLCO	9.9	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	9.9
2023	1	63109	Hales Mills Solar, LLC	IPP	Hales Mills Solar, LLC	NY	63339	09751	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2023	1	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC Hybrid	TX	62562	BA	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2023	1	64370	IP Radian, LLC	IPP	IP Radian, LLC	TX	64859	IPRAD	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2023	1	9234	Indiana Municipal Power Agency	Electric Utility	Gas City 2	IN	65315	GASC2	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2023	1	64847	Inertia Wind Project, LLC	IPP	Inertia Wind Project	TX	65546	WINER	301.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	301.0
2023	1	63776	JSD Flatwood PV-1, LLC	IPP	Bryant Road Solar	SC	64155	2001	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	1	65122	Kearsarge Beverly LLC	IPP	Kearsarge 100 Sohler Rd	MA	65950	SOBAT	1.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.8
2023	1	65122	Kearsarge Beverly LLC	IPP	Kearsarge 100 Sohler Rd	MA	65950	SOH	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2023	1	65120	Kearsarge Smithfield LLC	IPP	Kearsarge Smithfield LLC	RI	65949	SMITH	8.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.0
2023	1	64236	Kearsarge Upper Union LLC	IPP	Kearsarge Upper Union	MA	64619	FUU	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	1	64236	Kearsarge Upper Union LLC	IPP	Kearsarge Upper Union	MA	64619	UUBAT	0.8	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.8
2023	1	65277	Leyline Renewable Capital	IPP	HCE Amelia Solar I, LLC	VA	66115	AML1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	65277	Leyline Renewable Capital	IPP	HCE Amelia Solar II, LLC	VA	66116	AML2	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	65277	Leyline Renewable Capital	IPP	HCE Millboro Springs Solar, LLC	VA	66117	MLBS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	65277	Leyline Renewable Capital	IPP	HCE Moran Solar, LLC	VA	66118	MORAN	3.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.2

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	1	61944	MN8 Energy LLC	IPP	NY8 - Grissom Solar	NY	65121	GEN1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	1	62915	Madison Energy Holdings LLC	IPP	Norton	MA	64532	NORTN	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2023	1	56990	NJR Clean Energy Ventures Corporation	IPP	Canal Road Solar	NJ	66089	CANAL	5.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.5
2023	1	56990	NJR Clean Energy Ventures Corporation	IPP	Canoe Brook Solar	NJ	65705	CANOE	6.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.3
2023	1	56990	NJR Clean Energy Ventures Corporation	IPP	Maybrook Solar, LLC	NY	65337	MAYBK	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	1	56990	NJR Clean Energy Ventures Corporation	IPP	Mount Olive Solar Farm	NJ	65348	OLIVE	19.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	19.8
2023	1	64504	Phobos Solar, LLC	IPP	Phobos Solar, LLC	NC	65106	PGR33	78.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.8
2023	1	63359	REA Investments, LLC	IPP	Novel Schroeder Solar LLC CSG	MN	64484	SCRDR	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	1	56215	RWE Renewables Americas LLC	IPP	Baron Winds Farm	NY	60596	1	130.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	130.0
2023	1	64177	Ranchland Wind Project I, LLC	IPP	Ranchland Wind Project I	TX	64551	WT2	114.9	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	114.9
2023	1	64178	Ranchland Wind Project II, LLC	IPP	Ranchland Wind Project II	TX	64544	WT2	148.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	148.0
2023	1	64179	Ranchland Wind Storage, LLC	IPP	Ranchland Wind Storage	TX	64545	BA	73.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	73.0
2023	1	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC Hybrid	TX	62561	BA	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2023	1	64915	SR McKellar, LLC	IPP	SR McKellar	TN	65629	SRMCK	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2023	1	63640	Safari Energy, LLC	IPP	Polk County GA S1, LLC	GA	65994	20066	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	1	16609	San Diego Gas & Electric Co	Electric Utility	Fallbrook Energy Storage	CA	61365	FBES	40.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	40.0
2023	1	65148	Seven Cowboy Wind Project, LLC	IPP	Seven Cowboy Wind Project, LLC	OK	65971	WT1	301.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	301.7
2023	1	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid (CSG)	MA	62974	SYMIB	3.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.8
2023	1	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid CSG	MA	62971	SYWEB	2.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.9
2023	1	60947	Tesla Inc.	IPP	Berrenda Mesa Water District	CA	65073	PV1	6.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	6.4
2023	1	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	1	65172	Titlow Garden LLC	IPP	Titlow Garden LLC	MN	66004	TTLOW	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	1	65173	United States Solar Corporation	IPP	USS Catfish Solar LLC	MN	65440	USSCF	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	1	65173	United States Solar Corporation	IPP	USS Franklin Solar LLC	MN	65439	USSFS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	1	65173	United States Solar Corporation	IPP	USS Mesa Solar LLC	MN	65442	USSMS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	1	65173	United States Solar Corporation	IPP	USS Wells Creek Solar LLC	MN	65443	USSWC	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	1	65129	VESI 21 LLC	IPP	Bowling Green Energy Storage Project	OH	65951	BG1	12.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	12.0
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT1	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT2	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT3	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT4	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT5	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT6	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT7	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT8	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2023	1	64474	Waiawa Solar Power LLC	IPP	Waiawa Solar Power Hybrid	HI	65058	WAIBA	36.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	36.0
2023	1	64474	Waiawa Solar Power LLC	IPP	Waiawa Solar Power Hybrid	HI	65058	WAIPV	36.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	36.0
2023	2	64904	AES Clean Energy	IPP	Treasure Lane Solar 1	ME	66174	TREAS	4.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.5
2023	2	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	KLOAB	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2023	2	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	YKLOA	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2023	2	64532	ASA Clayton NY Solar I LLC	IPP	ASA Clayton NY Solar I LLC	NY	65161	CLA1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2023	2	64529	ASA Gouverneur NY Solar I LLC	IPP	ASA Gouverneur NY Solar I LLC	NY	65157	GOV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	2	59496	Allele Clean Energy	IPP	Red Barn Energy	WI	65282	WT	91.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	91.6
2023	2	60146	Ameresco Federal Solutions	IPP	Fort Bragg - Camp Mackall PV BESS System	NC	64050	CMABS	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2023	2	60146	Ameresco Federal Solutions	IPP	Fort Bragg - Camp Mackall PV BESS System	NC	64050	CMAPV	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	2	803	Arizona Public Service Co	Electric Utility	Cotton Center Solar Hybrid	AZ	57561	CC17M	17.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	17.0
2023	2	803	Arizona Public Service Co	Electric Utility	Desert Star Hybrid	AZ	59444	DS10M	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	2	803	Arizona Public Service Co	Electric Utility	EI Sol BESS	AZ	62964	EL50M	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2023	2	803	Arizona Public Service Co	Electric Utility	Gila Bend Hybrid	AZ	59020	GB36M	36.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	36.0
2023	2	803	Arizona Public Service Co	Electric Utility	Hyder II Hybrid	AZ	58383	H214M	14.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	14.0
2023	2	803	Arizona Public Service Co	Electric Utility	Hyder Solar Hybrid	AZ	57563	H116M	16.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	16.0
2023	2	803	Arizona Public Service Co	Electric Utility	Paloma Solar Hybrid	AZ	57562	PA17M	17.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	17.0
2023	2	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARESS	150.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	150.0
2023	2	64516	Azimuth 180 Solar Electric, LLC	IPP	Grinnell College	IA	65164	GRIN	3.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.9
2023	2	64516	Azimuth 180 Solar Electric, LLC	IPP	Ontario Sun	NY	65165	ONSUN	2.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.4
2023	2	64757	BT Cunningham Storage, LLC	IPP	Cunningham Storage	TX	65410	SPUT	190.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	190.0
2023	2	64805	Bluestone Wind, LLC	IPP	Bluestone Wind, LLC	NY	65496	BLUES	111.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	111.8
2023	2	65044	Castle Gap Wind Power, LLC	IPP	Castle Gap Wind	TX	65790	CGWIN	196.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	196.8
2023	2	63466	Conductive Power	IPP	Ripley	MD	66203	RIPLY	27.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	27.5
2023	2	56769	Consolidated Edison Development Inc.	IPP	CED West Side Canal Battery Storage	CA	65980	WCBS	131.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	131.0
2023	2	63991	DG New York CS, LLC	IPP	Cortlandville III Solar CSG	NY	65090	CORT3	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	2	5109	DTE Electric Company	Electric Utility	Meridian Wind Park	MI	65328	1	225.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	225.0
2023	2	63523	DePue Holdings, LLC	IPP	DePue Holdings, LLC	IL	63845	DEPUE	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	2	64998	Deerfield Wind Energy 2, LLC	IPP	Deerfield Wind Energy 2	MI	65742	DWF02	112.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	112.1
2023	2	5248	Dominion Energy Inc.	Electric Utility	Sycamore Solar	VA	64136	SYSO	42.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	42.0
2023	2	3046	Duke Energy Progress - (NC)	Electric Utility	Woodfin Solar	NC	64882	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	2	65225	Eight Point Wind, LLC	Electric Utility	Eight Point Wind	NY	66052	EPW01	101.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	101.2
2023	2	65049	Elba Solar LLC	IPP	Elba Solar LLC	IL	65797	ELBA	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	2	6452	Florida Power & Light Co	Electric Utility	Chautauqua Solar Energy Center	FL	65421	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	2	6452	Florida Power & Light Co	Electric Utility	FPL Shirer Branch Solar Energy Center	FL	65429	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	2	6452	Florida Power & Light Co	Electric Utility	Wild Azalea Solar Energy Center	FL	65430	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	2	62856	Forefront Power, LLC	IPP	CA - DGS RFP - RJ Donovan State Prison	CA	65104	15111	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	2	62856	Forefront Power, LLC	IPP	CA-DGS-California Men's Colony	CA	65523	14057	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2023	2	62856	Forefront Power, LLC	IPP	CA-Ventura Co CCD-Oxnard College Canopy	CA	65447	19032	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	2	62856	Forefront Power, LLC	IPP	Grossmont-Cuyamaca-Cuyamaca Col. Solar &	CA	66023	19043	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	2	60025	Greenbacker Renewable Energy Corporation	IPP	Friendship I	MD	66160	569	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	2	60025	Greenbacker Renewable Energy Corporation	IPP	Friendship II	MD	66162	570	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	2	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS1	612.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	685.0
2023	2	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS2	612.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	685.0
2023	2	65076	HEN Infrastructure, L.L.C.	IPP	Screwbean	TX	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)
2023	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Black Bear Solar 1	AL	63765	ALBB1	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2023	2	55983	Luminant Generation Company LLC	IPP	Emerald Grove	TX	63233	UNIT1	108.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	108.0
2023	2	64625	MA CS Uxbridge, LLC	IPP	MA CS Uxbridge, LLC	MA	65362	UXBRD	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2023	2	61944	MN8 Energy LLC	IPP	NY8 - Janis Solar	NY	65123	GEN1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	2	61944	MN8 Energy LLC	IPP	WMATA - Anacostia	DC	65958	GEN1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2023	2	63451	Madero Grid, LLC	IPP	Madero Grid	TX	63757	MAD01	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2023	2	12686	Mississippi Power Co	Electric Utility	Walnut Grove Demonstration Plant	MS	65697	1A	1.3	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2023	2	12686	Mississippi Power Co	Electric Utility	Walnut Grove Demonstration Plant	MS	65697	1B	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	2	64358	New Market Solar	IPP	New Market Solar	OH	64853	NMS1	35.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	35.0
2023	2	64358	New Market Solar	IPP	New Market Solar	OH	64853	NMS2	65.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	65.0
2023	2	65204	Niagara Depot Solar, LLC	IPP	Niagara Depot Solar	NY	66040	2320A	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	BAT1	5.1	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.1
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	SOL1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Collier BESS	NC	65248	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Docs Road BESS	NC	65249	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Five Points BESS	NC	65250	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Hamlet Solar Energy Storage	NC	64512	BAT1	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Hamlet Solar Energy Storage	NC	64512	SOL1	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Maysville BESS	NC	65240	BAT1	5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	5.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	McKinney BESS	NC	65241	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	New Rosewood BESS	NC	65243	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Queens Creek BESS	NC	65244	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Rocky Point BESS	NC	65245	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	SOL1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	BAT1	0.6	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.6
2023	2	13683	North Carolina EI Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	SOL1	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Wake RJ3 Solar Energy Storage	NC	64513	BAT1	0.6	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.6
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Wake RJ3 Solar Energy Storage	NC	64513	SOL1	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Walkers Crossroads BESS	NC	65246	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2023	2	13683	North Carolina EI Member Corp	Electric Utility	Zion Hill BESS	NC	65247	BAT1	5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	5.0
2023	2	63216	North Valley	IPP	North Valley	NV	63491	OEC1	25.0	Geothermal	GEO	BT	(V) Under construction, more than 50 percent complete	37.0
2023	2	64610	Powells Creek Farm Solar, LLC	IPP	Powells Creek Solar - Hybrid	VA	65305	SOLAR	70.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	70.0
2023	2	61069	RE Gaskell West LLC	IPP	RE Gaskell West 2 LLC	CA	61446	PV2	45.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.0
2023	2	61069	RE Gaskell West LLC	IPP	RE Gaskell West 3 LLC	CA	61447	PV3	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	2	61069	RE Gaskell West LLC	IPP	RE Gaskell West 4 LLC	CA	61448	PV4	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	2	61069	RE Gaskell West LLC	IPP	RE Gaskell West 5 LLC	CA	61449	PV5	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	2	63359	REA Investments, LLC	IPP	Novel Froehle Solar LLC	MN	64728	FROLE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	2	63359	REA Investments, LLC	IPP	Novel Milbradt Solar LLC	MN	64729	MLBRT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	2	64916	SR Bell Buckle, LLC	IPP	SR Bell Buckle	TN	65630	SRBEL	35.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	35.0
2023	2	63640	Safari Energy, LLC	IPP	Reidsville Renewables, Inc.	GA	65995	20052	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	2	63275	Samoset Solar, LLC	IPP	Samoset Solar	ME	63551	PGR21	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	2	62744	St. James Solar, LLC	IPP	St. James Solar (LA)	LA	62854	SJS	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2023	2	65112	TotalEnergies Distributed Generation, LLC	Commercial	Shasta College PH2 Solar Project	CA	65940	SCSP1	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2023	2	65112	TotalEnergies Distributed Generation, LLC	Commercial	Shasta College PH2 Solar Project	CA	65940	SCSPB	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2023	2	65127	VESI 24 LLC	IPP	Howell Energy Storage Project	NJ	65953	HW1	7.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	7.0
2023	2	65128	VESI 25 LLC	IPP	Andover Energy Storage Project	NJ	65952	AD1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2023	3	59573	Amazon	IPP	Amazon Bakersfield 1 Solar Project	CA	65562	ABFSP	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2023	3	59573	Amazon	IPP	Amazon Bakersfield 1 Solar Project	CA	65562	ABSBA	1.6	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.6
2023	3	803	Arizona Public Service Co	Electric Utility	Foothills Solar Plant Hybrid	AZ	57997	FH38M	38.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	38.0
2023	3	15399	Avangrid Renewables LLC	IPP	Montague Solar	OR	63441	S1	162.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	162.0
2023	3	65060	BPL Crown Solar LLC	IPP	BPL Crown Solar LLC	TX	64259	OCICR	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2023	3	65061	BPL Sol Solar LLC	IPP	BPL Sol Solar LLC	TX	64260	OCISO	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2023	3	64838	Bear Grove Solar, LLC	IPP	Bear Grove Solar	MN	65514	13260	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	3	63883	Broad Reach Power	IPP	Sierra Energy Storage, LLC	CA	61803	10003	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	3	65227	Cathcart Solar, LLC	IPP	Cathcart Solar, LLC	NC	66055	CATHC	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	3	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A1	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	40.6
2023	3	6762	City of Fredonia - (KS)	Electric Utility	Fredonia	KS	65374	GEN1	1.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.5
2023	3	6762	City of Fredonia - (KS)	Electric Utility	Fredonia	KS	65374	GEN2	1.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.5
2023	3	63466	Conductive Power	IPP	Ocotillo Wells	CA	65820	OWS	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	51.5
2023	3	56769	Consolidated Edison Development Inc.	IPP	Pleasant Hill Solar	VA	65220	PHSPV	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	3	56769	Consolidated Edison Development Inc.	IPP	Watlington Solar	VA	65221	WSPV	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	3	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
2023	3	6455	Duke Energy Florida, LLC	Electric Utility	Bay Ranch Solar Power Plant	FL	65171	PV1	74.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.9
2023	3	64947	EDPR CA Solar Park II LLC	IPP	Sandrini Solar 100	CA	65664	GENBA	95.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	95.4
2023	3	65054	Easton CSG 1 LLC	IPP	Easton CSG 1 LLC	ME	65798	ESTON	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.3
2023	3	58970	Ecoplexus, Inc	IPP	Chuckawalla State Prison	CA	65180	CHKWL	2.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.1
2023	3	58970	Ecoplexus, Inc	IPP	Ironwood State Prison	CA	65179	IRNWD	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2023	3	62856	Forefront Power, LLC	IPP	CA-DGS RFP-Pleasant Valley State Prison	CA	65526	15112	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	3	62856	Forefront Power, LLC	IPP	CA-DGS RFP-Salinas Valley State Prison	CA	65525	14068	3.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2023	3	62856	Forefront Power, LLC	IPP	CA-Ventura County CCD-Ventura College	CA	65527	17024	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2023	3	62856	Forefront Power, LLC	IPP	Grossmont-Cuyamaca-Cuyamaca Col. Solar &	CA	66023	18009	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2023	3	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,114.0	Nuclear	NUC	ST	(V) Under construction, more than 50 percent complete	1,114.0
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	Cortez Solar 3, LLC	CO	66141	711	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS AKC1	OH	65985	461	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS CMH4, LLC	OH	66010	460	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.2
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS PCW1	OH	66069	462	3.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.1
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS VGT	NV	66098	573	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	3	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS3	612.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	685.0
2023	3	9234	Indiana Municipal Power Agency	Electric Utility	Richmond 6	IN	64252	RICH6	5.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent	

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	3	49805	Kennecott Utah Copper	Industrial	Copperton Solar Plant No. 1	UT	64427	CSP1	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	3	63289	Key Capture Energy	IPP	TX19 River Valley Storage 1	TX	65699	TX19	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2023	3	63289	Key Capture Energy	IPP	TX21 River Valley Storage 2	TX	65700	TX21	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2023	3	50123	Leeward Asset Management, LLC	IPP	Big Plain Solar, LLC	OH	64635	GEN01	196.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	196.0
2023	3	50123	Leeward Asset Management, LLC	IPP	Chaparral Springs	CA	64864	CHAPS	102.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	102.0
2023	3	63756	Lily Pond Solar, LLC	IPP	Lily Pond Solar, LLC	VA	64134	ENX09	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2023	3	61944	MN8 Energy LLC	IPP	WMATA - S. Ave. Carport (East)	MD	65961	GEN1	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2023	3	62915	Madison Energy Holdings LLC	IPP	Johnson CSG 2	MN	66030	JOHN2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN8	2.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	3	56990	NJR Clean Energy Ventures Corporation	IPP	Aero Haven Solar	NJ	63195	ACP3	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2023	3	56990	NJR Clean Energy Ventures Corporation	IPP	Howard Lane Solar	RI	65386	HOWRD	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	3	56990	NJR Clean Energy Ventures Corporation	IPP	Love Lane Solar	NJ	65486	LOVLN	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2023	3	15296	New York Power Authority	Electric Utility	Willis Battery Storage	NY	63238	WB1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	3	13491	New York University	Commercial	New York University Central Plant	NY	54808	DE1	2.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2023	3	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES01	1.3	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	1.3
2023	3	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES02	1.3	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	1.3
2023	3	55727	Orion Engineered Carbons	Industrial	Ivanhoe Generation Facility	LA	66175	GEN1	26.9	All Other	WH	ST	(V) Under construction, more than 50 percent complete	31.0
2023	3	64752	Perendale Holdings, LLC	IPP	Perendale Holdings, LLC	NC	65426	GEN1	7.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	3	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045		9.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	9.0
2023	3	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045		9.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	9.0
2023	3	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-3	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2023	3	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-6	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2023	3	63082	ProEnergy Services	IPP	Mark One Power Station	TX	65372	CTG-4	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2023	3	63082	ProEnergy Services	IPP	Mark One Power Station	TX	65372	CTG-5	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2023	3	63082	ProEnergy Services	IPP	Mark One Power Station	TX	65372	CTG-6	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2023	3	63359	REA Investments, LLC	IPP	Novel Brock Solar LLC	MN	65024	BROCK	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	3	63359	REA Investments, LLC	IPP	Novel Swenson Solar LLC	MN	65025	SWNSN	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	3	56215	RWE Renewables Americas LLC	IPP	Blackjack Creek Wind Farm	TX	62783	BLKJK	239.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	239.6
2023	3	65250	Rafferville Solar, LLC	IPP	Rafferville Solar	MN	66084	14508	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	3	65265	Repsol Renewables NA	IPP	Jicarilla Solar 1 LLC	NM	66163	JICB1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	3	65265	Repsol Renewables NA	IPP	Jicarilla Solar 1 LLC	NM	66163	JICS1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2023	3	65058	SV CSG Baileyville 1 LLC	IPP	SV CSG Baileyville 1 LLC	IL	65796	BAIL1	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	3	65077	SV CSG Baileyville 2 LLC	IPP	SV CSG Baileyville 2 LLC	IL	65890	BAIL2	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	3	65106	Sagebrush ESS, LLC	IPP	Sagebrush ESS	CA	65933	1	80.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	80.0
2023	3	64607	Salt City Solar LLC	IPP	Salt City Solar Project - Hybrid	OH	65302	SOLAR	49.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.9
2023	3	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	1.0
2023	3	64740	Santa Paula Energy Storage, LLC	IPP	Santa Paula Energy Storage LLC	CA	65397	SP1	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2023	3	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT1	351.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	384.2
2023	3	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT2	351.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	384.2
2023	3	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	ST	397.4	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	414.8
2023	3	61950	Terra-Gen Operating Co-Solar	IPP	Lockhart Solar PV, LLC	CA	10444	LOC1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2023	3	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	C01	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2023	3	64399	Trona Solar III LLC	IPP	Trona Solar III	CA	64914	71466	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	3	64808	Verizon Communications	IPP	Verizon Comms Garage Top Solar Project	CA	65507	VCGSP	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2023	3	64569	West Texas Solar Project II LLC	IPP	Taygete II Energy Project	TX	64075	TAYG2	203.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	203.8
2023	3	20856	Wisconsin Power & Light Co	Electric Utility	Boaz Microgrid Battery	WI	65633	BESS1	0.3	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.6
2023	3	64349	Yellowbud Solar LLC	IPP	Yellowbud Solar, LLC	OH	64832	YELLOW	274.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	274.0
2023	4	61222	174 Power Global Corp.	IPP	Gerdau	TX	63797	GER01	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	4	57416	Acciona Energy USA Global, LLC	IPP	Fort Bend Solar LLC	TX	63985	FBS	145.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	145.0
2023	4	65009	Ahern Community Solar I, LLC	IPP	Ahern Community Solar I, LLC	IL	65758	AHERN	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	4	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
2023	4	63883	Broad Reach Power	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	25.0
2023	4	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A2	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	40.6
2023	4	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A3	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	40.6
2023	4	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A4	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	40.6
2023	4	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A5	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	40.6
2023	4	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A6	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	40.6
2023	4	4226	Consolidated Edison Co-NY Inc	Electric Utility	Fox Hills Battery Station	NY	65035	ESSFH	7.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	7.5
2023	4	17568	Cooperative Energy	Electric Utility	R D Morrow	MS	6061	MOR1	514.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	550.0
2023	4	5248	Dominion Energy Inc.	Electric Utility	Dry Bridge Storage	VA	65044	DBES	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2023	4	6455	Duke Energy Florida, LLC	Electric Utility	Hardeetown Solar Power Plant	FL	65173	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2023	4	6455	Duke Energy Florida, LLC	Electric Utility	Hildreth Solar Power Plant	FL	65170	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2023	4	3046	Duke Energy Progress - (NC)	Electric Utility	Camp Lejeune Solar and Energy Storage	NC	59966	ES1	11.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	11.0
2023	4	65011	El Sauz Ranch Wind, LLC	IPP	El Sauz Ranch Wind, LLC	TX	65760	ELSAU	301.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	301.0
2023	4	64520	Energix Aditya, LLC	IPP	Energix Aditya, LLC	VA	65151	ENX13	11.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	11.5
2023	4	65206	Eureka North Solar LLC	IPP	Eureka North Solar	NY	66042	63232	3.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.5
2023	4	65205	Eureka South Solar LLC	IPP	Eureka South Solar	NY	66041	63231	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2023	4	6395	Flathead Electric Coop Inc	Electric Utility	Flathead Landfill to Gas Energy Facility	MT	64505	LFGE2	1.6	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	1.6
2023	4	6452	Florida Power & Light Co	Electric Utility	FPL Cypress Pond Solar	FL	65593	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	4	6452	Florida Power & Light Co	Electric Utility	FPL Etonia Creek	FL	65594	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	4	6452	Florida Power & Light Co	Electric Utility	FPL Saw Palmetto Solar Energy Center	FL	65592	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	4	62856	Forefront Power, LLC	IPP	CA - Madera USD - Madera South HS	CA	65615	19009	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2023	4	62856	Forefront Power, LLC	IPP	CA-DGS-California Correctional Inst	CA	65105	15111	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2023	4	61194	Generate Capital	IPP	Yellow Mills Rd #1 Community Solar Farm	NY	62517	1142	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2023	4	61194	Generate Capital	IPP	Yellow Mills Rd #2 Community Solar Farm	NY	62518	1181	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2023	4	61194	Generate Capital	IPP	Yellow Mills Rd #3 Community Solar Farm	NY	62519	1244	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2023	4	60025	Greenbacker Renewable Energy Corporation	IPP	Hecate Energy Albany 2 LLC	NY	66126	292	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	4	60025	Greenbacker Renewable Energy Corporation	IPP	Smithfield 3	UT	66147	801	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2023	4	65076	HEN Infrastructure, L.L.C.	IPP	Gomez	TX	65814	GOMEZ	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2023	4	65076	HEN Infrastructure, L.L.C.	IPP	Junction (TX)									

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	4	50123	Leeward Asset Management, LLC	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	72.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	72.0
2023	4	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Happy Solar 1	AR	63766	ARHA1	95.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	95.0
2023	4	63658	Long Beach Trigen, LLC	IPP	Toyota Long Beach Trigen	CA	64005	MMR-1	2.2	Other Waste Biomass	OBG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2023	4	61944	MN8 Energy LLC	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS1	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	4	61944	MN8 Energy LLC	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS2	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	4	61944	MN8 Energy LLC	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS3	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	4	61944	MN8 Energy LLC	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS4	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	4	61944	MN8 Energy LLC	IPP	NY8 - Darby Solar	NY	65839	GEN1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	4	64969	Meadow Lake Solar Park	IPP	Indiana Crossroads Solar Park	IN	65702	GEN01	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2023	4	13491	New York University	Commercial	New York University Central Plant	NY	54808	GR1	2.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.6
2023	4	59254	NuGen Capital Management	IPP	Bristol Landfill Solar	RI	65142	BL1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2023	4	62646	Painter Energy Storage, LLC	IPP	Painter Energy Storage	CA	62729	PAIN1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2023	4	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
2023	4	65154	Phelan Solar LLC	IPP	Sheep Creek Community Solar Farm	CA	65970	1	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2023	4	63359	REA Investments, LLC	IPP	Novel Caroline Solar, LLC CSG	MN	64485	CRLINE	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	4	65050	SV CSG South Dekalb 1 LLC	IPP	SV CSG South Dekalb 1 LLC	IL	65799	DKLB1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	4	65051	SV CSG South Dekalb 2 LLC	IPP	SV CSG South Dekalb 2 LLC	IL	65800	DKLB2	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	4	64713	Sebera Solar	Electric Utility	Sebera Solar	VA	65320	SEBE	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	4	65161	South Garden LLC	IPP	South Garden	MN	65989	MNC01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	4	17609	Southern California Edison Co	Electric Utility	Separator (Etiwanda) BESS	CA	65456	SEPAR	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2023	4	61668	Strauss Wind LLC	IPP	Strauss Wind Farm	CA	62113	ST-CA	95.5	Onshore Wind Turbine	WWD	WT	(U) Under construction, less than or equal to 50 percent complete	95.5
2023	4	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S4	CA	65677	BESS	20.6	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.6
2023	4	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	GA3	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2023	4	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	GVSRS	0.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.4
2023	4	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	STAMP	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2023	4	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	VRSR	0.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.4
2023	4	65173	United States Solar Corporation	IPP	USS Giveback Solar LLC	CO	65990	USSGB	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	4	19664	University of Washington	Commercial	University of Washington Power Plant	WA	54809	TG3	3.0	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	4	64545	Vesper Energy Development LLC	IPP	Gaicho Solar	PA	65214	GCHOS	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	4	62048	Westlands Almond LLC	IPP	Almond	CA	62546	ALMND	19.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.9
2023	5	64446	ASD Cotuit MA Solar LLC	IPP	ASD Cotuit MA Solar LLC	MA	65014	COT1	3.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.1
2023	5	64446	ASD Cotuit MA Solar LLC	IPP	ASD Cotuit MA Solar LLC	MA	65014	COT1B	2.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.5
2023	5	59050	Algonquin Power Co	IPP	Sandy Ridge Wind 2, LLC	PA	65741	SRW2	87.6	Onshore Wind Turbine	WWD	WT	(U) Under construction, less than or equal to 50 percent complete	100.3
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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	650.0
2023	5	5248	Dominion Energy Inc.	Electric Utility	Norge Solar Farm	VA	64086	NORG	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	5	55729	Duke Energy Kentucky Inc	Electric Utility	Aero Solar Facility	KY	65027	PV1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	5	62856	Forefront Power, LLC	IPP	CA-DGS- RFP-Correctional Training Fac	CA	65524	14069	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2023	5	61122	Great River Hydro, LLC	IPP	S C Moore	NH	2351	GEN5	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2023	5	60025	Greenbacker Renewable Energy Corporation	IPP	Hecate Energy Albany County 1	NY	64077	ALBNY	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	5	65076	HEN Infrastructure, L.L.C.	IPP	Farmersville (TX)	TX	65812	FRMVL	9.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.9
2023	5	63841	Hadley 3 Solar, LLC (North)	IPP	Hadley 3 Solar (North)	MA	64231	09170	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2023	5	65181	House Mountain	IPP	House Mountain	TX	66006	BA	63.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	73.2
2023	5	63289	Key Capture Energy	IPP	NY6 Battery	NY	65692	NY6	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	5	50123	Leeward Asset Management, LLC	IPP	Oak Trail Solar, LLC	NC	64683	GEN01	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	5	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 2	PA	65077	PACT2	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	5	64528	Lily Garden LLC	IPP	Lily Garden	MN	65160	CSG	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	5	65006	Linkville Solar, LLC	IPP	Linkville Solar (CSG)	OR	65749	LS22	2.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2023	5	64442	MN CSG 2019-17 LLC	IPP	MN CSG 2019-17 LLC	MN	65004	MOORE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	5	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN18	2.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.5
2023	5	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	4	88.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	88.0
2023	5	64377	Novel Billie Solar, LLC	IPP	Novel Billie Solar LLC	MN	64865	BLILE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	5	64433	Novel Bo Hu 1 Solar LLC	IPP	Novel Bo Hu 1 Solar LLC	MN	65006	BOHU1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	5	65369	OEE XXXIII LLC	IPP	Martin Marietta Wind Project	OH	66261	WTG01	1.5	Onshore Wind Turbine	WWD	WT	(T) Regulatory approvals received. Not under construction	1.5
2023	5	65369	OEE XXXIII LLC	IPP	Martin Marietta Wind Project	OH	66261	WTG02	1.5	Onshore Wind Turbine	WWD	WT	(T) Regulatory approvals received. Not under construction	1.5
2023	5	65369	OEE XXXIII LLC	IPP	Martin Marietta Wind Project	OH	66261	WTG03	1.5	Onshore Wind Turbine	WWD	WT	(T) Regulatory approvals received. Not under construction	1.5
2023	5	61298	Pine Gate Renewables	IPP	East Nash PV2	NC	63789	ENSH2	26.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	26.0
2023	5	61298	Pine Gate Renewables	IPP	Pleasant Hill PV1	NC	63787	PHILL	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC1	394.4	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	459.0
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC2	264.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	273.7
2023	5	64135	Resurgence Solar	IPP	Resurgence Solar	CA	64489	GEN1	138.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	138.0
2023	5	64135	Resurgence Solar	IPP	Resurgence Solar	CA	64489	GEN2	115.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	115.0
2023	5	64994	SolRiver Capital LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2023	5	64994	SolRiver Capital LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2023	5	64994	SolRiver Capital LLC	IPP	Shorthorn Holdings	SC	60028	PV1	8.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.9
2023	5	17609	Southern California Edison Co	Electric Utility	Anode (Springville) BESS	CA	65458	ANOD1	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2023	5	17609	Southern California Edison Co	Electric Utility	Anode (Springville) BESS	CA	65458	ANOD2	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2023	5	17609	Southern California Edison Co	Electric Utility	Cathode (Hinson) BESS	CA	65457	CATH1	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2023	5	17609	Southern California Edison Co	Electric Utility	Cathode (Hinson) BESS	CA	65457	CATH2	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2023	5	65209	TPE RI WA1, LLC	IPP	TPE RI WA1 Solar	RI	66045	70825	3.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.5
2023	5	65208	TPE RI WA2, LLC	IPP	TPE RI WA2 Solar	RI	66044	70824	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2023	5	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	A04	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2023	5	64281	Thigpen Farms Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	5	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center Hybrid	CO	63776	TW100	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	5	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center Hybrid	CO	63776	TW300	248.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	248.0
2023	5	65173	United States Solar Corporation	IPP	USS Dressen Family Solar LLC	MN	65991	USSDF	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	5	65173	United States Solar Corporation	IPP	USS Wolf Solar LLC	MN	65992	USWOF	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	5	65173	United States Solar Corporation	IPP	USS Wonder Solar LLC	MN	65993	USWON	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	5	20856	Wisconsin Power & Light Co	Electric Utility	Crawfish River	WI	65012	PV1	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2023	5	20860	Wisconsin Public Service Corp	Electric Utility										

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W16	18.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W17	18.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2023	6	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2023	6	64904	AES Clean Energy	IPP	Chevelon Butte Wind Farm	AZ	66001	CHVB	238.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	238.2
2023	6	61012	AES Distributed Energy	IPP	AES West Oahu Solar Hybrid	HI	64656	UHBES	12.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	12.5
2023	6	61012	AES Distributed Energy	IPP	AES West Oahu Solar Hybrid	HI	64656	UHWO	12.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	12.5
2023	6	64348	ASD Three Rivers Road MA Solar LLC	IPP	Three Rivers Solar LLC	MA	64844	TRB	1.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.4
2023	6	64348	ASD Three Rivers Road MA Solar LLC	IPP	Three Rivers Solar LLC	MA	64844	TRS	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2023	6	63803	Apex Solar LLC	IPP	Apex Solar	MT	64189	RSNAK	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2023	6	64548	Apple Grove Solar, LLC	IPP	Apple Grove Solar, LLC	VA	65224	ENX15	18.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.6
2023	6	65207	Arctaris Saddleback Solar, LLC	IPP	Arctaris Saddleback Solar	ME	66043	63233	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2023	6	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	1	200.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	200.0
2023	6	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	2	75.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	75.0
2023	6	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
2023	6	64804	Ball Hill Wind Energy, LLC	IPP	Ball Hill Wind Energy, LLC	NY	65495	BALLH	107.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	107.5
2023	6	63883	Broad Reach Power	IPP	Crockett	TX	65488	CROKT	9.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.9
2023	6	63883	Broad Reach Power	IPP	Dickens	TX	65489	DIKNS	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2023	6	63883	Broad Reach Power	IPP	Hydra	TX	65490	HYDRA	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2023	6	63883	Broad Reach Power	IPP	Paleo	TX	65491	PALEO	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2023	6	63883	Broad Reach Power	IPP	Pavo	TX	65492	PAVO	175.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	175.0
2023	6	63883	Broad Reach Power	IPP	Tortolas	TX	65493	TORTO	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2023	6	58939	Cameron Wind 1 LLC	IPP	Cameron Wind 1 LLC	TX	59118	SABAL	24.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	24.0
2023	6	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 4, LLC	AZ	65962	MS4	52.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.5
2023	6	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 4, LLC	AZ	65962	MS4B	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2023	6	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 5, LLC	AZ	65963	MS5	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2023	6	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 5, LLC	AZ	65963	MS5B	60.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	60.0
2023	6	64523	Deptford Solar One, LLC	IPP	Deptford Solar One	NJ	65147	VCP01	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	6	65168	Desert Peak Energy Storage I, LLC	IPP	Desert Peak Energy Storage I	CA	65987	DP1	325.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	325.0
2023	6	65169	Desert Peak Energy Storage II, LLC	IPP	Desert Peak Energy Storage II	CA	65988	DP2	75.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	75.0
2023	6	6455	Duke Energy Florida, LLC	Electric Utility	John Hopkins Middle School Microgrid	FL	64752	ES1	2.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.5
2023	6	6455	Duke Energy Florida, LLC	Electric Utility	John Hopkins Middle School Microgrid	FL	64752	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	6	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant Hybrid	CA	260	BAT3	350.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	350.0
2023	6	58970	Ecoplexus, Inc	IPP	CSP Solano	CA	65181	CSLNO	5.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.1
2023	6	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
2023	6	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	6	227.8	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	227.8
2023	6	64458	Enfield Solar One, LLC	IPP	Enfield Solar One	CT	65047	VCP07	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2023	6	60025	Greenbacker Renewable Energy Corporation	IPP	Smithfield 1	UT	66144	523	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	6	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
2023	6	64971	IP Oberon LLC	IPP	Oberon Solar Project	CA	65734	OBIBS	125.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	140.0
2023	6	64971	IP Oberon LLC	IPP	Oberon Solar Project	CA	65734	OBIPV	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	298.2
2023	6	49893	Invenery Services LLC	IPP	Delilah Solar Energy II LLC	TX	63884	GEN1	310.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	310.0
2023	6	49893	Invenery Services 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	65234	Kapolei Energy Storage I, LLC	IPP	Kapolei Energy Storage	HI	66067	KES1	185.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	185.0
2023	6	64511	MN CSG 2019-21 LLC	IPP	Hultman CSG	MN	65101	HLTMN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	64509	MN CSG 2019-23 LLC	IPP	Eichtn 3 CSG	MN	65115	ECHT3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	64512	MN CSG 2019-41 LLC	IPP	Lindgren 1 CSG	MN	65102	LNDGR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	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	(T) Regulatory approvals received. Not under construction	65.0
2023	6	64477	Meriden Solar One, LLC	IPP	Meriden Solar One	CT	65061	VCP08	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2023	6	64480	Millstone Solar One, LLC	IPP	Millstone Solar One	NJ	65064	VCP03	2.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.8
2023	6	62836	Navisun LLC	IPP	Acushnet MA 1	MA	64706	ACNT1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	62836	Navisun LLC	IPP	Acushnet MA 2	MA	64707	ACNT2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center Hybrid	CO	63731	NT125	125.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	125.0
2023	6	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center Hybrid	CO	63731	NT325	325.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	325.0
2023	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
2023	6	65276	Newport Solar, LLC	IPP	Newport Solar Project	AR	66112	U1	180.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	180.0
2023	6	64935	Ortega Grid, LLC	IPP	Ortega Grid, LLC	CA	65656	HEORG	20.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	20.0
2023	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake Solar	MN	65066	1	49.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.9
2023	6	64549	Phare Garden LLC	IPP	Phare Garden	MN	65223	CGS	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2023	6	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	6	65087	SMS DC CS01B, LLC	IPP	Gallaudet Uni Community Solar	DC	65896	GUCS1	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2023	6	65057	SV CSG Barrass Farms II LLC	IPP	SV CSG Barrass Farms II LL	IL	65803	BARAS	1.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	6	27075	San Diego County Water Auth	IPP	Rancho Penasquitos	CA	56615	G200	4.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	4.3
2023	6	64936	San Jacinto Grid, LLC	IPP	San Jacinto Grid, LLC	CA	65657	HESJG	65.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	65.0
2023	6	64801	Storey Energy Center, LLC	IPP	Storey Solar and Storage	AZ	65956	STORY	88.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	88.0
2023	6	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	B05	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	B07	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2023	6	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	C02	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2023	6	56826	Texas Medical Center Central	Commercial	TECO CHP-1	TX	57504	GTG2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	50.0
2023	6	65173	United States Solar Corporation	IPP	Courtland CSG LLC	MN	66029	CLCSG	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	65173	United States Solar Corporation	IPP	USS Golly Gee Solar LLC	MN	65986	USSGG	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	6	64457	VCP, LLC d/b/a Verogy	IPP	Dollar Tree Solar One	CT	65148	VCP13	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	6	64457	VCP, LLC d/b/a Verogy	IPP	FedEx Middletown	CT	65046	VCP15	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	6	20856	Wisconsin Power & Light Co	Electric Utility	Springfield Solar (WI)	WI	64996	PV1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	7	64844	Bell Ridge Solar, LLC	IPP	Bell Ridge Solar	FL	65519	BRS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2023	7	63421	Biggs Ford Solar Center, LLC	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2023	7	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM45	2.8	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2023	7	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM46	2.8	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2023	7	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM47	2.8	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2023	7	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM48	2.8	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2023	7	62091	Derby Fuel Cell LLC	IPP										

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	7	65275	Greenstone Solar, LLC	IPP	Greenstone Solar, LLC	MI	66109	GRSS	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	7	64409	Hecate Energy Ramsey, LLC	IPP	Aktina Solar	TX	64927	AKS01	500.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	500.0
2023	7	64927	IP Lumina II, LLC	IPP	Lumina II Solar Project	TX	65644	LUMII	321.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	326.6
2023	7	61421	LeGore Bridge Solar Center, LLC	IPP	LeGore Bridge Solar Center	MD	61796	LGBSC	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2023	7	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 1	PA	65076	PACT1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	7	64510	MN CSG 2019-53 LLC	IPP	Eikmeier CSG	MN	65100	EIKMR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	7	65042	MN CSG 2019-55 DE LLC	IPP	MN CSG 2019-55 LLC	MN	65792	STEGE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	7	61944	MN8 Energy LLC	IPP	WMATA - Naylor Rd. Metro	MD	65960	GEN1	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2023	7	65038	Magdaline Solar, LLC	IPP	Magdaline Solar, LLC	SC	65782	MAG	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	7	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
2023	7	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-1	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2023	7	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-2	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2023	7	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-4	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2023	7	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-5	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2023	7	60531	Standard Solar	IPP	Woodville Solar	RI	64530	1	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2023	7	60970	SunShare Management	IPP	Buffalo Sun CSG	MN	66070	BUFFS	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2023	7	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E4	CA	65675	BESS	109.8	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	109.8
2023	8	65273	Blue Elk VII Solar, LLC	IPP	Blue Elk VII Solar, LLC	MI	66104	BEVII	12.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	12.5
2023	8	64669	CPV Maple Hill Solar, LLC	IPP	CPV Maple Hill Solar	PA	65332	MH1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2023	8	64542	Caden Energix Endless Caverns, LLC	IPP	Caden Energix Endless Caverns, LLC	VA	65219	ENX16	31.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	31.4
2023	8	61610	Delaware River Solar, LLC	IPP	Chidsey Hill Road Solar	NY	65828	1666	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2023	8	61610	Delaware River Solar, LLC	IPP	Day Hollow Road Solar	NY	65826	1829	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2023	8	61610	Delaware River Solar, LLC	IPP	Halsey Lane Solar	NY	65827	1795	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2023	8	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
2023	8	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
2023	8	59656	Desert Quartzite LLC	IPP	Desert Quartzite	CA	59871	GEN01	480.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	480.0
2023	8	59656	Desert Quartzite LLC	IPP	Desert Quartzite	CA	59871	GEN02	150.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	150.0
2023	8	64730	Flint Hills Resources Pine Bend, LLC	Industrial	Flint Hills Resources Pine Bend, LLC	MN	65405	SOLAR	45.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	45.0
2023	8	65218	Glover Creek Solar, LLC	IPP	Glover Creek Solar, LLC	KY	66047	GLOVE	55.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	55.0
2023	8	60025	Greenbacker Renewable Energy Corporation	IPP	Cortez Solar 2, LLC	CO	66169	710	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	8	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	H0001	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2023	8	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	HESS1	52.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	52.0
2023	8	65086	Landrace Holdings, LLC	IPP	Landrace Holdings, LLC	SC	65955	LANDR	55.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	55.0
2023	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 5	PA	65080	PACT5	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	8	65052	Limestone CSG 1 LLC	IPP	Limestone CSG 1 LLC	ME	65801	LMST1	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.8
2023	8	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN19	1.0	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	1.0
2023	8	65274	Midcontinent Solar, LLC	IPP	Midcontinent Solar, LLC	MI	66108	MCS	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	8	61153	Montevue Lane Solar, LLC	IPP	Fort Detrick Solar PV	MD	61552	FDSBS	6.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.0
2023	8	65339	North Central Valley Energy Storage, LLC	IPP	North Central Valley	CA	66208	NCV	132.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	132.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Clairemont Energy Storage	CA	66266	1	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Paradise Energy Storage	CA	66265	1	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2023	8	61828	Scarlet Solar	IPP	Scarlet Solar	SC	62307	71	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	8	60970	SunShare Management	IPP	Oster Sun CSG	MN	66072	OSTRS	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2023	8	60970	SunShare Management	IPP	Quarry Sun CSG	MN	66073	QURYS	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2023	8	64992	Sunflower Energy Center, LLC	IPP	Sunflower Energy Center, LLC	KS	65738	1111	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	8	18454	Tampa Electric Co	Electric Utility	Juniper Solar (FL)	FL	65683	1	70.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	70.0
2023	8	18642	Tennessee Valley Authority	Electric Utility	Vonore Battery Energy Storage System	TN	64255	VBESS	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2023	8	64287	Terra-Gen Operating Co-BESS	IPP	Sanborn BESS 3	CA	65672	BESS	175.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	175.5
2023	8	64287	Terra-Gen Operating Co-BESS	IPP	Sanborn EBESS1	CA	65673	BESS	57.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	57.4
2023	8	6775	Village of Freeport - (NY)	Electric Utility	Plant No 1 Freeport	NY	2678	ENG13	3.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	8	20856	Wisconsin Power & Light Co	Electric Utility	Onion River	WI	65008	PV1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	9	61012	AES Distributed Energy	IPP	Great Cove Solar	PA	65999	GC1	70.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	70.0
2023	9	64949	Appaloosa Solar I, LLC	IPP	Appaloosa Solar I	UT	65678	AS1A	120.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	120.0
2023	9	64949	Appaloosa Solar I, LLC	IPP	Appaloosa Solar I	UT	65678	AS1B	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	9	61711	Ashley Solar (SC)	IPP	Ashley Solar (SC)	SC	62179	21	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	9	64496	Atlanta Farms Solar Project, LLC	IPP	Atlanta Farms Solar	OH	65128	43164	199.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	199.6
2023	9	61717	Birch Solar	IPP	Birch Solar	SC	62185	27	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	9	64307	Castle Solar, LLC	IPP	Castle Solar, LLC	UT	64740	CS	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2023	9	63526	Chestnut Westside, LLC	IPP	Chestnut	CA	63849	CHNUT	150.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.6
2023	9	65311	Clearwater Wind East, LLC	IPP	Clearwater Wind East	MT	66183	CWE	208.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	208.2
2023	9	65312	Clearwater Wind II, LLC	IPP	Clearwater Wind II	MT	66184	CW2	102.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	102.8
2023	9	64365	Daggett Solar Power 3 LLC	IPP	Daggett 3	CA	64852	DAGGB	149.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	149.0
2023	9	64365	Daggett Solar Power 3 LLC	IPP	Daggett 3	CA	64852	DAGGP	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2023	9	64946	EDPR CA Solar Park LLC	IPP	Sandri Solar 200	CA	65663	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2023	9	60025	Greenbacker Renewable Energy Corporation	IPP	Fall River Solar, LLC	SD	64968	452	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	9	64937	Hecate Energy Desert Storage 1 LLC	IPP	Hecate Energy Desert Storage 1 LLC	CA	65635	HEDS1	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2023	9	64978	Hecate Grid Carris Storage 1 LLC	IPP	Carris Storage I	CA	65733	HECAR	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2023	9	65212	Hobnail Solar, LLC	IPP	Hobnail Solar	GA	66026	GA-03	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2023	9	64972	IP Oberon II, LLC	IPP	Oberon II Solar Project	CA	65735	OBIIP	125.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	140.0
2023	9	64972	IP Oberon II, LLC	IPP	Oberon II Solar Project	CA	65735	OBIIP	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	298.2
2023	9	64077	JVR Energy Park LLC	IPP	JVR Energy Park LLC	CA	64428	JVR1A	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2023	9	64077	JVR Energy Park LLC	IPP	JVR Energy Park LLC	CA	64428	JVR1B	70.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	70.0
2023	9	50123	Leeward Asset Management, LLC	IPP	Chaparral Springs	CA	64864	CHAPB	52.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	52.0
2023	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 6	PA	65081	PACT6	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2023	9	64925	MA CS Dighton, LLC	IPP	MA-Dighton-A	MA	65646	MADIG	3.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.8
2023	9	61944	MN8 Energy LLC	IPP	NY8 - Teichos Pattersonville	NY	65840	GEN1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	9	65347	Pearl River Solar Park, LLC	IPP	Pearl River Solar Park LLC	MS	66239	GEN01	175.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	175.0
2023	9	64715	Quillwort Solar	Electric Utility	Quillwort Solar	VA	65318	POWI	18.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	18.0
2023	9	64371	RPNY Solar 3, LLC	IPP	Slayton Settlement Road Solar	NY	64867	SLYTA	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received.	

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	9	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	9	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	9	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
2023	9	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E5	CA	65676	BESS	75.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	75.4
2023	9	61863	Washington Solar (SC)	IPP	Washington Solar (SC)	SC	62342	87	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	9	61864	Washington Solar II (SC)	IPP	Washington Solar II (SC)	SC	62344	88	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	9	63525	Westlands Solar Blue (OZ) Owner, LLC	IPP	Solar Blue	CA	63848	SBLUE	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2023	9	20847	Wisconsin Electric Power Co	Electric Utility	Badger Hollow II	WI	64393	GEN2	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	10	61012	AES Distributed Energy	IPP	AES Maui Kuihelani Solar Hybrid	HI	64256	KLNIB	60.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	60.0
2023	10	61012	AES Distributed Energy	IPP	AES Maui Kuihelani Solar Hybrid	HI	64256	KULNI	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2023	10	61012	AES Distributed Energy	IPP	AES Mountain View Solar	HI	66002	MVSPA	7.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	7.0
2023	10	61012	AES Distributed Energy	IPP	AES Mountain View Solar	HI	66002	MVSPB	7.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.0
2023	10	57416	Acciona Energy USA Global, LLC	IPP	High Point Solar LLC	IL	63838	HPS	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2023	10	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GEN2	0.6	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	0.6
2023	10	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GEN3	0.6	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	0.6
2023	10	64144	Arlington Energy Center II	IPP	Arlington Energy Center II	CA	64481	AEC2	133.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	133.0
2023	10	65269	Blue Elk IV Solar, LLC	IPP	Blue Elk IV Solar, LLC	MI	66102	BEIV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	10	63883	Broad Reach Power	IPP	Antlia	TX	65588	ANTLA	70.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	70.0
2023	10	63883	Broad Reach Power	IPP	Carina	TX	65589	CARNA	150.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	150.0
2023	10	65313	Crane 2 BESS, LLC	IPP	Revolution	TX	66170	1	150.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	10	7140	Georgia Power Co	Electric Utility	Mossy Branch Battery Facility	GA	65018	BESS	65.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	65.0
2023	10	64924	IP Lumina, LLC	IPP	Lumina Solar Project	TX	65645	LUMIN	320.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	326.6
2023	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 4	PA	65079	PACT4	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2023	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Honeysuckle Solar Farm	IN	65936	INHS1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2023	10	61944	MN8 Energy LLC	IPP	NY8 - ELP Stillwater Solar	NY	65841	GEN1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	10	61944	MN8 Energy LLC	IPP	WMATA - Cheverly Metro	MD	65959	GEN1	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2023	10	64164	Noosa Energy Storage LLC	IPP	Noosa Energy Storage LLC	CA	64531	KOV4A	99.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	99.0
2023	10	60531	Standard Solar	IPP	Klees Mill CSG	MD	65356	KLEES	2.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.8
2023	10	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E1B	CA	65674	BESS	140.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	140.4
2023	10	59598	Tooele Army Depot	IPP	Tooele Army Depot(CSG)	UT	59817	PV2	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	11	63118	224WB 8me LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	110.0
2023	11	63830	7V Solar Ranch, LLC	IPP	7V Solar Ranch	TX	64239	7V1	240.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	240.0
2023	11	59633	AE Power Services LLC	IPP	Arche Energy Project, LLC	OH	65402	ARCHE	107.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	107.0
2023	11	195	Alabama Power Co	Electric Utility	Barry	AL	3	A3C1	385.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	464.0
2023	11	195	Alabama Power Co	Electric Utility	Barry	AL	3	A3S1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	310.0
2023	11	64996	Arica Solar, LLC	IPP	Arica Solar	CA	65744	ARCSA	136.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	136.0
2023	11	64996	Arica Solar, LLC	IPP	Arica Solar	CA	65744	ARCPV	263.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	263.0
2023	11	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARSOL	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2023	11	65272	Blue Elk III Solar, LLC	IPP	Blue Elk III Solar, LLC	MI	66103	BEIII	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	11	63235	Brookfield Renewable Trading and Marketing LP	IPP	AM Wind Repower LLC	CA	66167	63235	27.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	27.0
2023	11	58769	Consolidated Edison Development Inc.	IPP	Timberland Solar	GA	65892	TSPV	140.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	140.0
2023	11	34359	Curators of the University of Missouri	Commercial	MU Combined Heat and Power Plant	MO	50969	GEN10	8.0	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	9.0
2023	11	64364	Daggett Solar Power 2 LLC	IPP	Daggett 2	CA	64851	DAGGB	131.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	131.0
2023	11	64364	Daggett Solar Power 2 LLC	IPP	Daggett 2	CA	64851	DAGGP	182.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	182.0
2023	11	64452	EDF Renewables Development, Inc.	IPP	Homer Solar Energy Center	NY	65052	HSEC	90.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	90.0
2023	11	64452	EDF Renewables Development, Inc.	IPP	Tracy Solar Energy Center	NY	65051	TSEC	119.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	119.0
2023	11	65018	East Point Energy Center, LLC	IPP	East Point Energy Center, LLC	NY	65805	EP01	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
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	380.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	380.0
2023	11	62153	Hecate Energy Highland LLC	IPP	Hecate Energy Highland LLC	OH	62670	HIGHL	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2023	11	64559	Hunter Solar, LLC	IPP	Hunter Solar, LLC (CO)	CO	65231	HCO	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2023	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Oxbow Solar 1	LA	65030	LAVE1	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2023	11	64445	Mazeppa CSG 1 LLC	IPP	Mazeppa CSG	MN	65017	MZPA	0.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	11	65344	Misenheimer Solar LLC	IPP	Misenheimer Solar LLC	NC	66237	GEN01	74.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.4
2023	11	65203	Sweden Solar, LLC	IPP	Sweden Solar	ME	66038	13630	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	11	65123	Tres Bahias Solar Power, LLC	IPP	Tres Bahias	TX	65947	TB	196.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	196.3
2023	11	64168	Tyre Bridge Solar LLC	IPP	Tyre Bridge Solar LLC	GA	64537	KOV4A	118.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	118.0
2023	11	64995	Victory Pass I, LLC	IPP	Victory Pass	CA	65743	VCTBA	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2023	11	64995	Victory Pass I, LLC	IPP	Victory Pass	CA	65743	VCTPV	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	11	63492	West River Solar, LLC	IPP	West River Solar, LLC	NC	63806	PGR28	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2023	11	20847	Wisconsin Electric Power Co	Electric Utility	Paris Solar	WI	65967	PSLR1	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2023	11	20847	Wisconsin Electric Power Co	Electric Utility	Paris Solar	WI	65967	PSLR2	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2023	11	20856	Wisconsin Power & Light Co	Electric Utility	Paddock Solar	WI	64998	PV1	65.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	65.0
2023	11	64776	Wolf Pit Branch Solar, LLC	IPP	Wolf Pit Branch Solar, LLC	SC	65437	PGB38	15.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.5
2023	11	64776	Wolf Pit Branch Solar, LLC	IPP	Wolf Pit Branch Solar, LLC	SC	65437	PGR38	62.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	62.0
2023	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
2023	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
2023	12	61222	174 Power Global Corp.	IPP	Black Hollow Sun, LLC	CO	64745	BHS01	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	12	61222	174 Power Global Corp.	IPP	Boulder Solar III LLC	NV	65141	BS301	127.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	127.9
2023	12	61222	174 Power Global Corp.	IPP	Boulder Solar III LLC	NV	65141	BS3ES	58.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	58.0
2023	12	61222	174 Power Global Corp.	IPP	Turkey Creek Solar Project	CO	64744	TC001	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	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
2023	12	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
2023	12	64244	92JT 8me, LLC	IPP	Big Rock Solar Farm	CA	64636	92JTB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	61012	AES Distributed Energy	IPP	AES Waiawa Phase 2 Solar	HI	66066	WAIBA	30.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	30.0
2023	12	61012	AES Distributed Energy	IPP	AES Waiawa Phase 2 Solar	HI	66066	WAIPV	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2023	12	61012	AES Distributed Energy	IPP	Platteview Solar LLC	NE	65334	PLTVV	81.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	81.0
2023	12	61012	AES Distributed Energy	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
2023	12	61012	AES Distributed Energy	IPP	Sand Hill C	CA	63653	SNDHC	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2023	12	64788	Big Cypress Solar, LLC	IPP	Big Cypress Solar, LLC	AR	65483	BIGC1	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2023	12	65210	Bird Dog Solar, LLC	IPP	Bird Dog Solar	GA	66024	GA-01	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2023	12	64739	Black Walnut Energy Storage LLC	IPP	Black Walnut Energy Storage LLC	CA	65396	BW1	15.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	15.0
2023	12	65364	Blue Harvest Solar Park LLC	IPP	Blue Harvest Solar Park	OH	66249	GEN01	49.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.9
2023	12	65166	Bronco Plains Wind II, LLC	IPP	Bronco Plains Wind II, LLC	CO	66014	WBOPT	199.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	64522	CAA CT Solar One, LLC	IPP	CT Airport Authority Solar One	CT	65146	VCP16	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2023	12	65308	Cattlemen Solar Park LLC	IPP	Cattlemen Solar Park	TX	66168	GEN01	240.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	240.0
2023	12	1148	City of Baldwin City- (KS)	Electric Utility	Baldwin City Plant No 2	KS	8020	10	2.0	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	2.2
2023	12	1148	City of Baldwin City- (KS)	Electric Utility	Baldwin City Plant No 2	KS	8020	9	2.0	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	2.2
2023	12	3913	City of Colby - (KS)	Electric Utility	Colby City of	KS	1272	10	3.0	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	12	65164	CleanCapital Holdings	IPP	Gorham Solar 1, LLC	ME	65342	GS1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2023	12	64389	ConnectGen Chautauqua County LLC	IPP	South Ripley Solar	NY	64911	CSRS1	270.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	270.0
2023	12	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
2023	12	56769	Consolidated Edison Development Inc.	IPP	CED Denmark Solar Hybrid	ME	63898	DSBV	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2023	12	56769	Consolidated Edison Development Inc.	IPP	Switchgrass Solar, LLC	VA	66124	SSPV	70.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	70.0
2023	12	5248	Dominion Energy Inc.	Electric Utility	Piney Creek Solar	VA	62768	PCSOL	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2023	12	64947	EDPR CA Solar Park II LLC	IPP	Sandri Solar 100	CA	65664	GEN02	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2023	12	64524	East Windsor Solar Two, LLC	IPP	East Windsor Solar Two	CT	65149	VCP05	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2023	12	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
2023	12	58970	Ecoplexus, Inc	IPP	Olin Creek Farm Solar	NC	64626	OLINC	35.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	35.0
2023	12	58970	Ecoplexus, Inc	IPP	Westminster NC	NC	63567	WSMTR	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2023	12	64306	Elektron Solar, LLC	IPP	Elektron Solar, LLC	UT	64739	ELKS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2023	12	64525	Ellington Solar One, LLC	IPP	Ellington Solar One	CT	65150	VCP06	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	12	64810	Eversource Energy	IPP	South Fork Wind	NY	65561	SFVND	130.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	130.0
2023	12	65226	FGE Goodnight I, LLC	IPP	Goodnight	TX	59246	GOOD1	265.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	265.5
2023	12	65097	Gans Solar, LLC	IPP	Gans Solar	PA	65902	5	14.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	14.0
2023	12	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,114.0	Nuclear	NUC	ST	(V) Under construction, more than 50 percent complete	1,114.0
2023	12	63832	Hecate Energy Harley Hand Solar LLC	IPP	Hecate Energy Harley Hand Solar LLC	TX	64234	19936	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2023	12	65295	High Banks Wind, LLC	IPP	High Banks Wind, LLC	KS	66156	WT	604.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	643.4
2023	12	62765	High Bridge Wind, LLC	IPP	High Bridge Wind Project	NY	62894	HBBSF	7.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	7.0
2023	12	62765	High Bridge Wind, LLC	IPP	High Bridge Wind Project	NY	62894	WT	103.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	103.2
2023	12	64476	Hope Solar One, LLC	IPP	Hope Solar One	RI	65060	VCP02	3.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.5
2023	12	63959	Horizon Hill Wind, LLC	IPP	Horizon Hill Wind Project	OK	64339	HHILL	201.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	201.5
2023	12	64738	Hummingbird Energy Storage, LLC	IPP	Hummingbird Energy Storage LLC	CA	65395	HUMB1	75.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	75.0
2023	12	49893	Invernergy Services 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	12	49893	Invernergy Services LLC	IPP	Heartland Farms	MI	66192	65014	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	49893	Invernergy 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
2023	12	50123	Leeward Asset Management, LLC	IPP	Horizon Solar	TX	65308	HRZNS	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Willow Spring Solar 3, LLC	CA	60325	WS3BA	36.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	36.0
2023	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 8	PA	65082	PACT8	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	65100	Listonburg Solar, LLC	IPP	Listonburg Solar	PA	65929	8	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2023	12	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
2023	12	61752	Lone Star Solar	IPP	Lone Star Solar	SC	62235	50	66.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	66.0
2023	12	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
2023	12	65196	Lyons Solar, LLC	IPP	Lyons Solar	PA	66019	PA01	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2023	12	64478	Middletown Solar One, LLC	IPP	Middletown Solar One	CT	65062	VCP09	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	12	64479	Middletown Solar Two, LLC	IPP	Middletown Solar Two	CT	65063	VCP10	1.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.9
2023	12	65268	Moraine Sands Wind Power, LLC	IPP	Moraine Sands Wind Power	IL	66093	MSWP1	165.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	171.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLES1	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLPV1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	12	64507	North Haven Solar One, LLC	IPP	North Haven Solar One	CT	65109	VCP11	1.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.6
2023	12	64086	OE_ALD	IPP	OE_ALD	AL	64469	OEALD	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	12	64581	OE_FL10	IPP	OE_FL10	FL	65290	OFL10	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2023	12	64583	OE_FL7	IPP	OE_FL7	FL	65292	OE_FL	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2023	12	64584	OE_MS4	IPP	OE_MS4	MS	65293	OEMS4	96.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	96.0
2023	12	64087	OE_MS5	IPP	OE_MS5	MS	64529	MS5_S	50.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	50.0
2023	12	64087	OE_MS5	IPP	OE_MS5	MS	64529	OEMS5	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2023	12	64582	OE_MS6	IPP	OE_MS6	MS	65291	MS6_S	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	64582	OE_MS6	IPP	OE_MS6	MS	65291	OEMS6	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	12	63755	Old 300 Solar Center, LLC	IPP	Old 300 Solar Center, LLC	TX	64133	2222	430.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	430.0
2023	12	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	8	18.0	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	18.1
2023	12	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	9	18.0	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	18.1
2023	12	65098	Pechin Solar, LLC	IPP	Pechin Solar	PA	65903	9	14.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	14.0
2023	12	63821	Pike Solar LLC	IPP	Pike Solar Hybrid	CO	64212	CO465	175.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	175.0
2023	12	63821	Pike Solar LLC	IPP	Pike Solar Hybrid	CO	64212	PSBES	25.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	25.0
2023	12	65282	Prairie Switch Wind LLC	IPP	Prairie Switch Wind LLC	TX	66123	PSW1	163.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	163.2
2023	12	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
2023	12	56215	RWE Renewables Americas LLC	IPP	Pinckard Solar	AL	62787	PCKND	79.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	85.1
2023	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
2023	12	64587	Renegade Renewables, LLC	IPP	Renegade Solar Project (Dawn)	TX	65310	DAWN1	515.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	515.0
2023	12	64514	Royalston Solar One, LLC	IPP	Royalston Solar One	MA	65136	VCP04	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	12	64514	Royalston Solar One, LLC	IPP	Royalston Solar One	MA	65136	VCPS1	2.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	12	65306	SR DeSoto II, LLC	IPP	SR DeSoto II	GA	66172	SOTO2	65.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.0
2023	12	63778	SR Litchfield, LLC	IPP	SR Litchfield	CT	64161	LITCH	19.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.8
2023	12	63781	SR North Stonington, LLC	IPP	SR North Stonington	CT	64160	STONE	9.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.9
2023	12	65307	SR Snipesville III, LLC	IPP	SR Snipesville III	GA	66171	SNIP3	107.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	107.0
2023	12	64230	Sanford ESS, LLC	IPP	Sanford ESS, LLC	ME	64615	1	5.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	5.0
2023	12	17058	Shell Wind Energy Inc.	IPP	Madison Fields Solar Project, LLC	OH	66198	USMDF	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2023	12	64233	South Portland ESS, LLC	IPP	South Portland ESS, LLC	ME	64616	1	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2023	12	63515	Sparta Solar, LLC	IPP	Sparta Solar	TX								

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2023	12	18454	Tampa Electric Co	Electric Utility	Dover Solar	FL	66129	1	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2023	12	18454	Tampa Electric Co	Electric Utility	Lake Mabel Solar	FL	66128	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2023	12	64931	Texas Solar Nova 1, LLC	IPP	Texas Solar Nova 1	TX	65654	TSN1	252.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	252.0
2023	12	65365	Timber Road Solar Park	IPP	Timber Road Solar Park	OH	66250	GEN01	49.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.9
2023	12	64457	VCP, LLC d/b/a Verogy	IPP	Emery Shute Solar One	ME	65045	VCP14	1.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.4
2023	12	64457	VCP, LLC d/b/a Verogy	IPP	Moodus Solar One	CT	65108	VCP17	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	12	64457	VCP, LLC d/b/a Verogy	IPP	Spencer Drive Solar One	ME	65138	VCP18	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	12	64457	VCP, LLC d/b/a Verogy	IPP	Woodstock Solar One	CT	65139	VCP19	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	12	64545	Vesper Energy Development LLC	IPP	Nestlewood Solar	OH	65215	NSTLW	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	12	64966	Vikings Energy Farm, LLC	IPP	Vikings Energy Farm	CA	65711	GEN1	120.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	130.0
2023	12	64966	Vikings Energy Farm, LLC	IPP	Vikings Energy Farm	CA	65711	GEN2	150.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	150.0
2023	12	65014	Waco Solar, LLC	IPP	Waco Solar	TX	65762	SWACO	400.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	400.0
2023	12	64515	Waterbury Solar One, LLC	IPP	Waterbury Solar One	CT	65137	VCP12	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	12	64547	Waverly Solar, LLC	IPP	Waverly Solar, LLC	VA	65225	ENX17	118.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	118.0
2023	12	63961	White Rock Wind East, LLC	IPP	White Rock East Wind Project	OK	64341	WRE	201.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	201.5
2023	12	63960	White Rock Wind West, LLC	IPP	White Rock West Wind Project	OK	64340	WRW	99.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	99.5
2023	12	20856	Wisconsin Power & Light Co	Electric Utility	Albany Solar (WI)	WI	64997	PV1	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2023	12	20856	Wisconsin Power & Light Co	Electric Utility	Beaver Dam Solar	WI	65001	PV1	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2023	12	20856	Wisconsin Power & Light Co	Electric Utility	Wautoma Solar	WI	65000	PV1	99.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	99.0
2023	12	65213	Wolfskin Solar, LLC	IPP	Wolfskin Solar	GA	66027	GA-04	38.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	38.0
2024	1	64268	Black Rock Solar LLC	IPP	Black Rock Solar LLC	WA	64671	KOV4A	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
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	1	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC3	20.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	1	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC4	20.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	1	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC5	20.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	1	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC6	20.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	1	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC7	20.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	1	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC8	20.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	1	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	PV6	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2024	1	5109	DTE Electric Company	Electric Utility	Wheeler Center Solar Park	MI	65327	WCTSP	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	1	6455	Duke Energy Florida, LLC	Electric Utility	Mule Creek Renewable Energy Center	FL	65501	PV1	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2024	1	6452	Florida Power & Light Co	Electric Utility	Beautyberry	FL	65874	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Caloosahatchee	FL	65871	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Canoe	FL	65866	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Ibis	FL	65877	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Monarch	FL	65872	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Pineapple	FL	65865	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Prairie Creek FL	FL	65868	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Silver Palm	FL	65878	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Terrill Creek	FL	65882	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Turnpike	FL	65873	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	White Tail	FL	65869	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Woodyard	FL	65875	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	64970	Hecate Grid Humidor Storage 1 LLC	IPP	Humidor Storage I	CA	65703	HEHUM	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	300.0
2024	1	63289	Key Capture Energy	IPP	TX10 Hummingbird Storage	TX	65693	TX10	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2024	1	63289	Key Capture Energy	IPP	TX15 Limousin Oak Storage	TX	65698	TX15	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	1	50123	Leeward Asset Management, LLC	IPP	Rose Gold Solar	IN	65471	RGS01	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2024	1	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	White Trillium Solar	OH	65904	OHWT1	49.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	49.5
2024	1	65053	Limestone CSG 2 LLC	IPP	Limestone CSG 2 LLC	ME	65802	LMST2	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2024	1	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	1	16.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.1
2024	1	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	2	16.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.1
2024	1	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	3	16.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.1
2024	1	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	4	16.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.1
2024	1	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	5	16.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.1
2024	1	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	6	16.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.1
2024	1	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	7	16.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.1
2024	1	14127	Omaha Public Power District	Electric Utility	Turtle Creek	NE	64547	1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	264.0
2024	1	14127	Omaha Public Power District	Electric Utility	Turtle Creek	NE	64547	2	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	264.0
2024	1	64169	Prairie Solar LLC	IPP	Prairie Solar LLC	IL	64536	KOV4A	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2024	1	15474	Public Service Co of Oklahoma	Electric Utility	Ft. Sill Energy Center	OK	64855	1	9.0	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.0
2024	1	15474	Public Service Co of Oklahoma	Electric Utility	Ft. Sill Energy Center	OK	64855	2	9.0	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.0
2024	1	15474	Public Service Co of Oklahoma	Electric Utility	Ft. Sill Energy Center	OK	64855	3	9.0	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.0
2024	1	15474	Public Service Co of Oklahoma	Electric Utility	Ft. Sill Energy Center	OK	64855	4	9.0	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.0
2024	2	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
2024	2	65211	Blackwater Solar, LLC	IPP	Blackwater Solar	GA	66025	GA-02	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	2	63883	Broad Reach Power	IPP	Avila	TX	65860	AVILA	160.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	160.0
2024	2	61060	Cypress Creek Renewables	IPP	Zier Solar	TX	66137	11023	40.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	40.4
2024	2	61060	Cypress Creek Renewables	IPP	Zier Solar	TX	66137	41195	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2024	2	63524	Freepoint Commodities LLC	IPP	Raceway Solar	DE	63846	RACE	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2024	2	64741	Homestead Energy Storage, LLC	IPP	Homestead Energy Storage LLC	CA	65398	HMSD1	14.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	14.0
2024	2	65281	Horus Louisiana 1, LLC	IPP	Elizabeth Solar Plant	LA	66111	US199	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2024	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Birch Solar	OH	66054	OHB11	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2024	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Second Division Solar	TX	65981	TXSD1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Snowdrop Solar	PA	66139	PASD1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	381.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	492.0
2024	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	262.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	351.0
2024	2	65099	Porter Solar, LLC	IPP	Porter Solar, LLC (TX)	TX	65937	PORTR	245.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	245.0
2024	3	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	61168	150.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	150.0
2024	3	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV		

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)
2024	3	65315	Crooked Lake Solar, LLC	IPP	Crooked Lake Solar, LLC	AR	66185	GEN1	175.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	175.0
2024	3	5248	Dominion Energy Inc.	Electric Utility	Dulles Solar and Storage	VA	65043	DUSO	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2024	3	6452	Florida Power & Light Co	Electric Utility	Big Juniper Solar	FL	65862	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Fourmile Creek	FL	65927	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Hawthorne Creek	FL	65926	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Nature Trail	FL	65924	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Orchard	FL	65925	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Pecan Tree	FL	65879	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Sambucus	FL	65864	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Sparkleberry	FL	65867	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Three Creeks	FL	65863	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Wild Quail	FL	65910	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	63638	Horseshoe Solar, LLC	IPP	Horseshoe Solar, LLC	UT	63984	HSS	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2024	3	65131	Mammoth North, LLC	IPP	Mammoth North Solar	IN	65957	GEN1	400.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	400.0
2024	3	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	BA1	79.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	79.9
2024	3	63969	Placid Solar, LLC	IPP	Highland Solar North	FL	64345	1112	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.9
2024	3	63969	Placid Solar, LLC	IPP	Highland Solar South	FL	64346	9999	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.9
2024	3	63639	Rocket Solar, LLC	IPP	Rocket Solar, LLC	UT	63983	RS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2024	3	65079	Solar Proponent LLC	IPP	Clear Fork Creek Solar and BESS SLF	TX	65842	CFCBS	600.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	600.0
2024	3	65079	Solar Proponent LLC	IPP	Clear Fork Creek Solar and BESS SLF	TX	65842	CFCPV	600.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	600.0
2024	3	65079	Solar Proponent LLC	IPP	Flag City Solar	TX	65844	FCSVP	167.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	167.3
2024	3	65079	Solar Proponent LLC	IPP	Lunis Creek Solar and BESS SLF	TX	65852	LUNBS	621.4	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	621.4
2024	3	65079	Solar Proponent LLC	IPP	Lunis Creek Solar and BESS SLF	TX	65852	LUNPV	617.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	617.1
2024	3	64690	Topsham Meadow Solar Station LLC	IPP	Topsham Meadow Solar Station	ME	65369	TMSS	17.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.2
2024	3	63726	Vistra Zero LLC	IPP	Forest Grove - Dodd	TX	64131	ESS1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.2
2024	3	20856	Wisconsin Power & Light Co	Electric Utility	Cassville Solar	WI	64995	PV1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	4	63826	201LC 8me LLC	IPP	Rockmont Solar and Storage Project	NM	64216	201LC	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	4	63826	201LC 8me LLC	IPP	Rockmont Solar and Storage Project	NM	64216	309SJ	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0
2024	4	64247	20SD 8me LLC	IPP	Rexford Solar Farm	CA	64633	20SDB	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	4	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
2024	4	64736	Beartooth Energy Storage, LLC	IPP	Beartooth Energy Storage LLC	MT	65407	BEAR1	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	4	65270	Blue Elk I Solar, LLC	IPP	Blue Elk I Solar, LLC	MI	66107	BEI	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	4	64264	Bolthouse Solar LLC	IPP	Bolthouse Solar LLC	CA	64668	KOV4A	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2024	4	63883	Broad Reach Power	IPP	Zeya	TX	65880	ZEYA	250.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	250.0
2024	4	64166	Brushy Creek Solar LLC	IPP	Brushy Creek Solar LLC	TX	64539	KOV4A	177.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	177.0
2024	4	61060	Cypress Creek Renewables	IPP	High Top Solar	WA	65325	98936	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2024	4	64218	Greens Corners Solar	IPP	Greens Corners Solar	NY	64599	GEN1	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2024	4	65016	High River Energy Center, LLC	IPP	High River Energy Center, LLC	NY	65765	HR01	90.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	90.0
2024	4	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 3	PA	65078	PACT3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	4	63257	Solar Carver 1, LLC	IPP	Solar Carver 1 Hybrid	MA	63541	BCRV1	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	4	63257	Solar Carver 1, LLC	IPP	Solar Carver 1 Hybrid	MA	63541	SCRV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	4	63243	Solar Carver 3, LLC	IPP	Solar Carver 3 Hybrid	MA	63506	BCRV3	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	4	63243	Solar Carver 3, LLC	IPP	Solar Carver 3 Hybrid	MA	63506	SCRV3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	4	64932	Texas Solar Nova 2, LLC	IPP	Texas Solar Nova 2	TX	65660	TSN2	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	4	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
2024	4	5504	Vistra Corp	IPP	Newton Solar BESS LLC	IL	65401	BA	7.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	7.0
2024	4	5504	Vistra Corp	IPP	Newton Solar BESS LLC	IL	65401	PV	52.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	52.0
2024	5	61514	Agiltas Energy, LLC	IPP	AE-ESS NWS 1, LLC	NY	65239	NWS	4.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2024	5	64085	American Beech Solar LLC	IPP	American Beech Solar LLC	NC	64430	KOV4A	110.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	110.0
2024	5	63883	Broad Reach Power	IPP	Castor	TX	65870	CASTR	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	5	65361	CT Cutlass II Solar LLC	IPP	Rowland Solar II	TX	66262	SAREN	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	202.8
2024	5	56769	Consolidated Edison Development Inc.	IPP	Wythe County Solar	VA	64448	GEN1	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2024	5	64609	ENGIE Solidago Solar LLC	IPP	ENGIE Solidago Solar Project - Hybrid	DE	65304	BESS	12.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	12.5
2024	5	64185	Knickerbocker Solar LLC	IPP	Knickerbocker Solar LLC	TX	64540	KOV4A	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	5	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 7	PA	66060	PACT3	21.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	21.1
2024	5	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 9	PA	66130	PACT9	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	5	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Peony Solar 1	IN	66131	INPE1	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	5	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Peony Solar 1	IN	66131	INPE2	62.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	62.5
2024	5	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
2024	5	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
2024	5	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
2024	5	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
2024	5	63720	Ocean Wind, LLC	IPP	Ocean Wind	NJ	64082	OCW01	1,100.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	1,100.0
2024	5	64610	Powells Creek Farm Solar, LLC	IPP	Powells Creek Solar - Hybrid	VA	65305	BESS	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.5
2024	5	64607	Salt City Solar LLC	IPP	Salt City Solar Project - Hybrid	OH	65302	BESS	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	12.5
2024	5	64387	Sandy Creek Solar LLC	IPP	Sandy Creek Solar	NY	64913	GEN1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	5	65079	Solar Proponent LLC	IPP	Hollow Branch Creek 1 Solar	TX	65846	HB1PV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2024	5	65079	Solar Proponent LLC	IPP	Rowdy Creek Solar and BESS	TX	65854	RDYBS	350.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	350.0
2024	5	65079	Solar Proponent LLC	IPP	Rowdy Creek Solar and BESS	TX	65854	RDYPV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2024	5	65079	Solar Proponent LLC	IPP	Tehuacana Creek 1 Solar and BESS	TX	65855	TE1BS	350.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	350.0
2024	5	65079	Solar Proponent LLC	IPP	Tehuacana Creek 1 Solar and BESS	TX	65855	TE1PV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2024	5	65079	Solar Proponent LLC	IPP	Tehuacana Creek 2 Solar and BESS	TX	65856	TE2BS	350.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	350.0
2024	5	65079	Solar Proponent LLC	IPP	Tehuacana Creek 2 Solar and BESS	TX	65856	TE2PV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2024	5	64612	Sunnybrook Farm Solar, LLC	IPP	Sunnybrook Solar Project - Hybrid	VA	65307	SUNB	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	12.5
2024	5	20856	Wisconsin Power & Light Co	Electric Utility	Grant County	WI	65007	PV1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	6	63825	45MG 8me LLC	IPP	Aratina Solar Center 2	CA	64215	45MGB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	6	64245	90FI 8me, LLC	IPP	Kingsley Solar Farm	CA	64634	90FIB	360.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	360.0
2024	6	64904	AES Clean Energy	IPP	Delta Wind Farm (MS)	MS	66000	DLTA	184.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	184.5
2024	6	64858	Balanced Rock Power, LLC	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	6	6421												

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)
2024	6	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2024	6	64455	CG Wharton County LLC	IPP	Sandy Branch Solar	TX	65034	CSBS1	230.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	230.0
2024	6	65361	CT Cutlass II Solar LLC	IPP	Cutlass Solar II LLC	TX	65848	CT2PV	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	6	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-3	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-4	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-3	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-4	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	6	64624	Cedar Creek Wind, LLC	IPP	Cedar Creek Wind, LLC	ID	65311	CDCRK	160.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	160.0
2024	6	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
2024	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
2024	6	65368	Eleven Mile Solar Center, LLC	IPP	Eleven Mile Solar Center	AZ	66263	1111	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2024	6	64689	Emery Meadow Solar Station, LLC	IPP	Emery Meadow Solar Station	ME	65366	EMSS	16.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.4
2024	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
2024	6	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
2024	6	50123	Leeward Asset Management, LLC	IPP	AVEP BESS	CA	65591	AVEPB	126.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	126.0
2024	6	50123	Leeward Asset Management, LLC	IPP	Cradle Solar	TX	65822	CRAS0	225.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	225.0
2024	6	50123	Leeward Asset Management, LLC	IPP	Union Ridge Solar	OH	65338	UNIS1	108.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	108.0
2024	6	50123	Leeward Asset Management, LLC	IPP	White Wing Solar	AZ	60572	GEN01	175.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	175.0
2024	6	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Starr Solar Ranch	TX	65975	TXST1	136.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	136.0
2024	6	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN20	2.0	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	2.0
2024	6	65088	Nighthawk Energy Storage, LLC	IPP	Nighthawk Energy Storage, LLC	CA	65889	BESS	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU10	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2024	6	58489	OCI Solar Power	IPP	AP Sunray LLC	TX	64258	OCISR	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	6	58489	OCI Solar Power	IPP	OCI Stillhouse Solar	TX	65894	OCISS	210.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	210.0
2024	6	65081	Oriana Solar LLC	IPP	Oriana Solar LLC	TX	65849	ORIBS	61.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	61.0
2024	6	65081	Oriana Solar LLC	IPP	Oriana Solar LLC	TX	65849	ORIPV	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2024	6	64355	Solariant Capital, LLC	IPP	Wildcat Solar Power Plant LLC	NM	64849	WILDC	90.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	90.0
2024	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
2024	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
2024	6	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
2024	6	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
2024	6	65082	Talitha Energy Project, LLC	IPP	Talitha Energy Project, LLC	TX	65891	TALBS	61.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	60.0
2024	6	65082	Talitha Energy Project, LLC	IPP	Talitha Energy Project, LLC	TX	65891	TALPV	131.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2024	6	64657	Vacherie Solar Energy Center, LLC	IPP	Vacherie Solar Energy Center, LLC	LA	65345	VSEC	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2024	7	57416	Acciona Energy USA Global, LLC	IPP	Red Tailed Hawk Solar LLC	TX	66157	GEN1	350.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	350.0
2024	7	64787	Axial Basin Solar LLC	IPP	Axial Basin Solar	CO	65480	CO505	145.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	145.0
2024	7	64356	Bedington Energy Facility, LLC	IPP	Bedington Energy Facility, LLC	WV	64848	BEF1	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2024	7	65157	Garcitas Creek Solar, LLC	IPP	Garcitas Creek Solar	TX	65973	GCS	201.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	201.9
2024	7	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
2024	7	63289	Key Capture Energy	IPP	KCE TX 14: Venus Mill Storage	TX	65788	TX14	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	7	64673	Ross County Solar, LLC	IPP	Ross County Solar, LLC	OH	65343	ROSS	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2024	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
2024	7	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
2024	7	64789	West Memphis Solar, LLC	IPP	West Memphis Solar, LLC	AR	65482	WMEM1	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2024	8	64172	Areon Asset Management	IPP	Elliot Solar LLC	IN	64904	1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	8	65293	Bartonsville Energy Facility, LLC	IPP	Bartonsville Energy Facility, LLC	VA	66133	BTS	130.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	130.0
2024	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	GPV	0.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.8
2024	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Prairie Ronde Solar Farm	LA	65976	LAPR1	135.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	135.0
2024	8	63463	Palomino Solar, LLC	IPP	Palomino Solar	OH	63784	PLMNO	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	9	63965	Badger Wind, LLC	IPP	Badger Wind, LLC	ND	64342	5555	252.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	252.0
2024	9	64110	Calhoun County Solar Project, LLC	IPP	Calhoun County Solar Project	MI	64452	GEN1	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2024	9	7570	Great River Energy	Electric Utility	Cambridge CT Hybrid	MN	2038	BA1	0.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.0
2024	9	64674	Noria Hondo Solar LLC	IPP	Noria Hondo Solar (Hybrid)	TX	65344	66148	145.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	145.0
2024	9	64674	Noria Hondo Solar LLC	IPP	Noria Hondo Solar (Hybrid)	TX	65344	66149	75.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	75.0
2024	9	64545	Vesper Energy Development LLC	IPP	Kingwood Solar	OH	65425	KWOOD	175.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	175.0
2024	10	63520	326FW 8me LLC	IPP	Arida Solar (Hybrid)	NV	63841	BESS	185.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	185.0
2024	10	61514	Agilitas Energy, LLC	IPP	Manorville II	NY	64758	MAN	0.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	0.6
2024	10	61514	Agilitas Energy, LLC	IPP	Manorville II	NY	64758	MANB	0.8	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	0.8
2024	10	61514	Agilitas Energy, LLC	IPP	Patchogue ESS	NY	64761	PAT	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2024	10	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
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	10	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONR1	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	201.0
2024	10	63579	Illinois Winds LLC	IPP	Panther Creek Wind Project	IL	63907	WTGE	54.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	54.4
2024	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Driver Solar	AR	65736	AKDR1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2024	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
2024	10	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHBA	15.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	15.0
2024	10	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHSOL	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2024	10	65348	Ragsdale Solar, LLC	IPP	Ragsdale Solar LLC	MS	66240	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	10	64351	Roxbury Solar, LLC	IPP	Roxbury Solar, LLC	ME	64834	ROX	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2024	10	64350	Saco River Solar, LLC	IPP	Saco River Solar, LLC	NH	64833	SACO	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2024	10	64347	Silver Queen Wind Farm, LLC	IPP	Silver Queen Wind Farm	IA	64835	NA	300.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	300.0
2024	10	65079	Solar Proponent LLC	IPP	Goldenrod Creek Solar and BESS SLF	TX	65845	GOLBS	660.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	660.0
2024	10	65079	Solar Proponent LLC	IPP	Goldenrod Creek Solar and BESS SLF	TX	65845	GOLPV	660.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	660.0
2024	10	65079	Solar Proponent LLC	IPP	Hollow Branch Creek 2 Solar and BESS SLF	TX	65851	HB2BS	400.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	400.0
2024	10	65079	Solar Proponent LLC	IPP	Hollow Branch Creek 2 Solar and BESS SLF	TX	65851	HB2PV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2024	10	65												

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)
2024	11	63807	302PN 8me LLC	IPP	Red Antelope Solar & Energy Storage Farm	AZ	64208	30PNA	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	11	63807	302PN 8me LLC	IPP	Red Antelope Solar & Energy Storage Farm	AZ	64208	30PNB	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	11	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	61169	150.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	150.0
2024	11	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	11	15399	Avangrid Renewables LLC	IPP	Mohawk Solar	NY	64253	S1	90.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	90.5
2024	11	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GENA	43.3	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	43.3
2024	11	63966	Emerick Wind, LLC	IPP	Emerick Wind	NE	64344	9999	396.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	396.9
2024	11	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKBA	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2024	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
2024	11	64941	Hecate Energy Pulaski LLC	IPP	Hecate Energy Pulaski 1	VA	65665	HEPU1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2024	11	50123	Leeward Asset Management, LLC	IPP	Ridgely Energy Farm	TN	65445	RIGPV	177.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	177.0
2024	11	50123	Leeward Asset Management, LLC	IPP	Sandhill Solar 2	GA	65884	SAHS0	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	11	65092	Springwater Solar, LLC	IPP	Springwater Solar, LLC	OH	65900	SPRIN	155.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	155.0
2024	11	63726	Vistra Zero LLC	IPP	Forest Grove - Dodd	TX	64131	FGPV1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	11	63726	Vistra Zero LLC	IPP	Oak Hill - Dry Creek	TX	64132	PV1	390.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	390.0
2024	11	20847	Wisconsin Electric Power Co	Electric Utility	Darien Solar	WI	64534	1	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2024	11	20847	Wisconsin Electric Power Co	Electric Utility	Darien Solar	WI	64534	2	75.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	75.0
2024	12	61222	174 Power Global Corp.	IPP	Pigeon Run Solar Project	VA	64767	TC001	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2024	12	61222	174 Power Global Corp.	IPP	Zenith Solar	VA	64768	TC001	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2024	12	64247	20SD 8me LLC	IPP	Rexford Solar Farm	CA	64633	20SD8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	12	64246	99MT 8me, LLC	IPP	Sienna Solar Farm	CA	64632	99MTB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	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
2024	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
2024	12	15399	Avangrid Renewables LLC	IPP	Camino Solar Hybrid	CA	63508	CSBA1	11.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.0
2024	12	15399	Avangrid Renewables LLC	IPP	Camino Solar Hybrid	CA	63508	CSPV1	44.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	44.0
2024	12	63702	Barbers Point Solar, LLC	IPP	Barbers Point Solar, LLC	HI	64094	BPBA	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2024	12	63702	Barbers Point Solar, LLC	IPP	Barbers Point Solar, LLC	HI	64094	BPSOL	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2024	12	64842	Baron Winds II	IPP	Baron Winds II	NY	65513	BRNW2	113.2	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	113.2
2024	12	63793	Bear Branch Solar LLC	IPP	Bear Branch Solar	NC	64168	GEN	35.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	35.0
2024	12	64434	Beaver Creek Wind I, LLC	IPP	Beaver Creek I	MT	65019	BCW1	50.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	12	64434	Beaver Creek Wind I, LLC	IPP	Beaver Creek I	MT	65019	BCW1B	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2024	12	64435	Beaver Creek Wind II, LLC	IPP	Beaver Creek II	MT	65020	BCW2	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2024	12	64435	Beaver Creek Wind II, LLC	IPP	Beaver Creek II	MT	65020	BCW2B	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	12	64436	Beaver Creek Wind III, LLC	IPP	Beaver Creek III	MT	65021	BCW3	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2024	12	64436	Beaver Creek Wind III, LLC	IPP	Beaver Creek III	MT	65021	BCW3B	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	12	64437	Beaver Creek Wind IV, LLC	IPP	Beaver Creek IV	MT	65023	BCW4	50.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	12	64437	Beaver Creek Wind IV, LLC	IPP	Beaver Creek IV	MT	65023	BCW4B	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2024	12	64744	Boswell Wind, LLC	IPP	Boswell Wind	WY	65403	BOSWW	329.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	329.8
2024	12	64467	CG Pike Creek LLC	IPP	Pike Creek Wind	IL	65049	CPCW1	202.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	202.5
2024	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	169.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	169.2
2024	12	64934	Chiquito Grid, LLC	IPP	Chiquito Grid, LLC	CA	65655	HECHQ	80.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	80.0
2024	12	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2024	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
2024	12	64357	ConnectGen Albany County LLC	IPP	Rail Tie Wind	WY	64847	CRTW1	504.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	504.0
2024	12	64389	ConnectGen Chautauqua County LLC	IPP	South Ripley Solar	NY	64911	CSR1	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2024	12	56769	Consolidated Edison Development Inc.	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	125.0
2024	12	64369	Coyote Gulch Solar LLC	IPP	Coyote Gulch Solar	CO	64857	C0513	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2024	12	61951	Dodge County Wind, LLC	IPP	Dodge County Wind	MN	62437	WT	260.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	260.0
2024	12	64368	Dolores Canyon Solar LLC	IPP	Dolores Canyon Solar	CO	64858	C0497	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2024	12	5248	Dominion Energy Inc.	Electric Utility	Dulles Solar and Storage	VA	65043	DUST	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	12	61785	EDP Renewables North America LLC	IPP	Scarlet Solar (CA)	CA	64908	GEN01	160.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	160.0
2024	12	61785	EDP Renewables North America LLC	IPP	Scarlet Solar (CA)	CA	64908	GEN02	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2024	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
2024	12	64174	FPS Cedar Creek Solar LLC	IPP	Cedar Creek Solar	DE	64543	1	114.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	114.0
2024	12	64176	FPS Potic Solar LLC	IPP	Potic Solar	NY	64541	1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2024	12	63524	Freepoint Commodities LLC	IPP	Shaftsbury Solar	VT	64064	SHAFT	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	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
2024	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
2024	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	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
2024	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
2024	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
2024	12	63839	Hecate Grid Clermont 1 LLC	IPP	Clermont	NY	64236	CLRMT	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2024	12	63792	Hornet Solar LLC	IPP	Hornet Solar	NC	64167	GEN	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2024	12	63791	Hunters Cove Solar LLC	IPP	Hunters Cove Solar	NC	64166	GEN	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2024	12	49893	Invenegy 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
2024	12	49893	Invenegy 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
2024	12	63703	Kahana Solar, LLC	IPP	Kahana Solar, LLC	HI	64095	KSBA	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63703	Kahana Solar, LLC	IPP	Kahana Solar, LLC	HI	64095	KSSOL	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Honey Creek Solar	IN	65821	HNYBA	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Honey Creek Solar	IN	65821	HNYSR	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Owens Creek Solar	IL	65446	OCS	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Parowan Solar	UT	65823	PARB	58.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	58.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Parowan Solar	UT	65823	PARS0	58.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	58.0
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	1	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	5	0.6	Conventional Hydroelectric				

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)
2024	12	64260	Nextera Energy Resources	IPP	Canyon Wind Project, LLC	TX	60271	WT1	360.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	360.0
2024	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
2024	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
2024	12	61301	Plum Creek Wind Farm LLC	IPP	Plum Creek	MN	61687	PLMCK	400.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	400.0
2024	12	65302	Ponderosa Wind II, LLC	IPP	Ponderosa Wind II	OK	66155	GP01	358.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	358.0
2024	12	63599	Pure Hedge LLC	IPP	Pure Hedge LLC	CT	50736	FSS13	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	12	63599	Pure Hedge LLC	IPP	Pure Hedge LLC	CT	50736	FSS17	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2024	12	64953	Putnam Meadow Solar Station, LLC	IPP	Putnam Meadow Solar Station	CT	65710	PTNM	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2024	12	65093	RPCA Storage 1, LLC	IPP	Industrial Parkway Storage	CA	65897	INPKY	9.8	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.8
2024	12	65101	Redbud Run Solar, LLC	IPP	Redbud Run Solar	VA	65930	10	30.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	30.0
2024	12	65091	Rosebud Solar, LLC	IPP	Rosebud Solar, LLC	TX	65899	ROSEB	112.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	112.6
2024	12	65304	SR Ailey, LLC	IPP	SR Ailey	GA	66173	AILEY	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2024	12	65072	Sacramento Valley Energy Center, LLC	IPP	Sacramento Valley Energy Center, LLC	CA	65808	BSVEC	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2024	12	65072	Sacramento Valley Energy Center, LLC	IPP	Sacramento Valley Energy Center, LLC	CA	65808	SVEC	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	65071	SloughHouse Solar, LLC	IPP	SloughHouse Solar, LLC	CA	65807	SHS	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2024	12	64783	Spanish Peaks Solar LLC	IPP	Spanish Peaks Solar	CO	62379	47301	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2024	12	65366	Speedway Solar, LLC	IPP	Speedway Solar, LLC	IN	66264	SDS	199.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	199.0
2024	12	64606	Steward Creek Solar, LLC	IPP	Steward Creek Solar Phase 1	IL	65301	SC1	600.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	600.0
2024	12	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	20.0
2024	12	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
2024	12	63539	SunEast Fairway Solar LLC	IPP	SunEast Fairway Solar Project	NY	63865	Q#848	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	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
2024	12	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
2024	12	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
2024	12	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
2024	12	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
2024	12	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
2024	12	63678	SunEast Manchester Solar LLC	IPP	SunEast Manchester Solar Project	NY	64037	Q#913	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	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
2024	12	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
2024	12	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
2024	12	62756	SunEast Watkins Road Solar LLC	IPP	SunEast Watkins Road Solar Project	NY	62896	Q586	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63759	Triple Oak Power 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
2024	12	64952	Turner Meadow Solar Station, LLC	IPP	Turner Meadow Solar Station	ME	65709	TRNR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	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	12	64545	Vesper Energy Development LLC	IPP	Axon Solar	VA	65462	AXTON	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	64545	Vesper Energy Development LLC	IPP	Hornet Solar (TX)	TX	65463	HRNET	500.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	500.0
2024	12	64951	Warren Meadow Solar Station, LLC	IPP	Warren Meadow Solar Station	ME	65708	WMSS	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2024	12	63527	Westlands Cherry, LLC	IPP	Cherry	CA	63850	CHERY	249.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	249.7
2024	12	63528	Westlands Grape, LLC	IPP	Grape	CA	63851	GRAPE	246.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	246.4
2024	12	65165	ibV Energy Partners	IPP	Boulder Flats Solar	NV	65977	BF1PV	131.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	131.0
2025	1	63825	45MG 8me LLC	IPP	Aratina Solar Center 2	CA	64215	45MGA	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	1	57416	Acciona Energy USA Global, LLC	IPP	AEGU Madison Solar, LLC	KY	64659	AMS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2025	1	15399	Avangrid Renewables LLC	IPP	Great Bear Solar, LLC	OH	64073	GBS	46.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	46.0
2025	1	64810	Eversource Energy	IPP	Revolution Wind	RI	65500	REVWD	715.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	715.0
2025	1	6452	Florida Power & Light Co	Electric Utility	Buttonwood	FL	65920	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Fawn	FL	65919	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Fox Trail	FL	65916	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Green Pasture	FL	65918	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Hog Bay	FL	65915	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Holopaw	FL	65922	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Honeybell	FL	65921	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Redlands	FL	65914	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Thomas Creek	FL	65917	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	5.0	Natural Gas Fired Combustion Turbine	NG	GT	(OT) Other	25.5
2025	1	64265	Notch Peak Solar LLC	IPP	Notch Peak Solar LLC	UT	64669	KOV4A	324.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	324.0
2025	1	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
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0
2025	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Red Dusk Solar	IN	66114	INRD1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	3	61012	AES Distributed Energy	IPP	Rooney Ranch	CA	63088	ROONR	21.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	21.0
2025	3	61012	AES Distributed Energy	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
2025	3	15399	Avangrid Renewables LLC	IPP	True North Solar, LLC	TX	65998	TNS1	240.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	240.0
2025	3	6452	Florida Power & Light Co	Electric Utility	Big Water	FL	65912	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Crystal Mine	FL	65913	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Georges Lake	FL	65907	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Hendry Isles	FL	65909	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Mitchell Creek	FL	65911	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Norton Creek	FL	65908	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	65079	Solar Proponent LLC	IPP	Dogwood Creek Solar and BESS	TX	65843	DOGBS	443.2	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	443.2
2025	3	65079	Solar Proponent LLC	IPP	Dogwood Creek Solar and BESS	TX	65843	DOGPV	435.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	435.5
2025	3	63786	Tygart LLC	IPP	Tygart Hydropower	WV	64171	1	3.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	10.0
2025	3	63786	Tygart LLC	IPP	Tygart Hydropower	WV	64171	2	3.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	10.0
2025	3	63786	Tygart LLC	IPP	Tygart Hydropower	WV	64171	3	3.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	10.0
2025	3	65104	Vermillion Rise Solar, LLC	IPP	Vermillion Rise Solar	IN	65935	14	225.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	225.0
2025	4	64518	Deer Wood Energy, LLC	IPP	Deer Wood Energy, LLC	VA	65144	ENX11	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2025	4	64519	Deer Wood Storage, LLC	IPP	Deer Wood Storage, LLC	VA	65145	ENX12	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0
2025	5	6291												

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)
2025	5	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECN1	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2025	5	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
2025	5	65114	Rocking R Solar, LLC	IPP	Rocking R Solar, LLC	LA	65941	RRS	72.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	72.5
2025	5	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	6	226.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	248.3
2025	5	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	7	226.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	248.3
2025	6	15399	Avangrid Renewables LLC	IPP	Powell Creek Solar	OH	65997	PCS1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	6	4254	Consumers Energy Co	Electric Utility	Muskegon Solar	MI	65572	MSP	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2025	6	58970	Ecoplexus, Inc	IPP	Grifton PV2	NC	63568	GRFT2	56.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.0
2025	6	65084	Eldora Energy LLC	IPP	Eldora Energy LLC	TX	65847	ELDBS	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	6	65084	Eldora Energy LLC	IPP	Eldora Energy LLC	TX	65847	ELDPV	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	6	65080	Elio Energy LLC	IPP	Elio Energy LLC	TX	65850	ELIBS	80.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	80.0
2025	6	65080	Elio Energy LLC	IPP	Elio Energy LLC	TX	65850	ELIPV	160.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	160.0
2025	6	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
2025	6	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
2025	6	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
2025	6	50123	Leeward Asset Management, LLC	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	19.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	19.0
2025	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
2025	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
2025	6	58489	OCI Solar Power	IPP	OCI SunRoper	TX	65893	OCIRO	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2025	6	65329	Yaupon Solar, LLC	IPP	Yaupon Solar Project (Hybrid)	TX	66216	BESS	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	6	65329	Yaupon Solar, LLC	IPP	Yaupon Solar Project (Hybrid)	TX	66216	SOL	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	7	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	1600C	2.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	2.5
2025	7	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	1600D	2.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	2.5
2025	7	65116	Discovery Wind, LLC	IPP	Discovery Wind, LLC	ND	65944	DISC	400.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	400.0
2025	7	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT5	40.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	65.4
2025	7	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT6	40.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	65.4
2025	7	65096	Hatchery Solar, LLC	IPP	Hatchery Solar	NY	65901	6	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	7	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	BA2	220.1	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	220.1
2025	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Big Elk Solar	NE	66113	NEBE1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2025	8	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
2025	9	60799	33UI 8me LLC	IPP	Gale 1 Solar	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2025	9	65102	Clear View Solar, LLC	IPP	Clear View Solar	NY	65931	3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	9	63140	Three Rivers Solar Power, LLC	IPP	Three Rivers Solar Power, LLC	ME	63386	3RVS	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2025	10	58769	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
2025	10	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
2025	10	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	10	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
2025	10	63553	Haymaker Energy Project LLC	IPP	Haymaker Hybrid	MT	63878	HBESS	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	10	65103	Highbanks Solar, LLC	IPP	Highbanks Solar	NY	65934	7	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	10	49805	Kennecott Utah Copper	Industrial	Copperton Solar Plant No. 1	UT	64427	CSP2	11.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2025	10	65124	Plum Nellie Wind Farm LLC	IPP	Plum Nellie Wind Farm LLC	KS	65948	PNW01	201.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	201.6
2025	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	6.8
2025	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	6.8
2025	10	58113	Texas A&M, Utilities & Energy Services	Commercial	Central Utility Plant - Texas A&M	TX	58151	STG03	5.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	5.0
2025	11	64388	ConnectGen Montgomery County LLC	IPP	Mill Point Solar	NY	64912	CMP51	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2025	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Trinity River Solar 1	TX	66132	TXTR1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Trinity River Solar 1	TX	66132	TXTR2	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2025	11	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
2025	11	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA2	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.8
2025	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	6.8
2025	11	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Pulp Processing Facility	FL	58997	G1001	20.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	20.0
2025	12	63520	326FW 8me LLC	IPP	Arida Solar (Hybrid)	NV	63841	ARIDA	370.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	370.0
2025	12	63805	50LW 8me LLC	IPP	Bellefield Solar and Energy Storage Farm	CA	64210	50LWA	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	63805	50LW 8me LLC	IPP	Bellefield Solar and Energy Storage Farm	CA	64210	50LWB	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	64245	90FI 8me, LLC	IPP	Kingsley Solar Farm	CA	64634	90FI8	360.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	360.0
2025	12	64615	Antares Group Inc	IPP	Shenvalee Solar	VA	65312	SV	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2025	12	15399	Avangrid Renewables LLC	IPP	Sunset Solar	OR	65326	SS1	103.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	103.0
2025	12	64475	CG Leon County II LLC	IPP	Pecan Prairie North Solar	TX	64999	CPNS1	360.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	360.0
2025	12	64410	CG Leon County LLC	IPP	Pecan Prairie South Solar	TX	64981	CPSS1	135.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	135.0
2025	12	64578	Caden Energix Piney River LLC	IPP	Caden Energix Piney River LLC	VA	65286	ENX18	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2025	12	65180	Cedar Island Solar LLC	IPP	Cedar Island Solar LLC	OR	66011	PV1	800.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	800.0
2025	12	64186	Chuckwalla Solar, LLC	IPP	Chuckwalla Solar, LLC	NV	64558	CHW	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	12	64186	Chuckwalla Solar, LLC	IPP	Chuckwalla Solar, LLC	NV	64558	CHW1	180.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	180.0
2025	12	65089	DG Penwell North, LLC	IPP	Nacero Penwell Solar Energy Center	TX	65928	NPEC1	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	12	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
2025	12	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
2025	12	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
2025	12	65113	Grey Fox Wind	IPP	Grey Fox Wind	IL	65939	WINDG	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2025	12	63782	Hecate Energy Cider Solar LLC	IPP	Hecate Energy Cider Solar LLC	NY	64163	11111	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	63838	Hecate Grid Swiftsure LLC	IPP	Swiftsure	NY	64235	SWFTS	650.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	650.0
2025	12	49893	Invenery Services LLC	IPP	Crescent Valley Solar	NV	62888	GEN1	149.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	149.0
2025	12	49893	Invenery 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
2025	12	49893	Invenery 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
2025	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
2025	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
2025	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
2025	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

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)
2025	12	64800	Nolin Hills Wind, LLC	IPP	Nolin Hills	OR	60070	GEN	300.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	300.0
2025	12	63217	Obsidian Solar Center LLC	IPP	Obsidian Solar Center	OR	63488	OBSLR	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2025	12	61331	Poplar 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
2025	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
2025	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
2025	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	12	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
2025	12	61906	Rye Development	IPP	Emsworth BC Hydroelectric Project	PA	62434	NA3	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.8
2025	12	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA3	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.8
2025	12	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	6.8
2025	12	65343	Sculpin Solar LLC	IPP	Sculpin Solar	IN	66238	1SPS	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2025	12	63954	Shepherd's Run Solar	IPP	Shepherd's Run Solar	NY	64188	PV	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2025	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
2025	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
2025	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	12	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
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
2025	12	64354	Wilkes Solar, LLC	IPP	Wilkes Solar, LLC	NC	64850	WS	75.0	Solar Photovoltaic	SUN	PV	(OT) Other	75.0
2026	1	6452	Florida Power & Light Co	Electric Utility	Boardwalk	FL	65885	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Kayak	FL	65888	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Long Creek	FL	65906	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Mare Branch	FL	65905	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	North Orange	FL	65883	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Price Creek	FL	65887	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Tenmile Creek	FL	65886	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	8153	Hartford Steam Co	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN5	5.4	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	5.5
2026	1	49893	Invenery Services LLC	IPP	Canistee Wind Farm	NY	62947	GEN1	290.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	290.7
2026	1	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
2026	1	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
2026	1	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
2026	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
2026	2	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCC21	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2026	4	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
2026	5	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
2026	6	57416	Acciona Energy USA Global, LLC	IPP	AEUG Fleming Solar, LLC	KY	64658	AFS	188.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	188.5
2026	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
2026	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
2026	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
2026	6	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
2026	6	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
2026	6	61718	Chapman Solar	IPP	Chapman Solar	SC	62186	28	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	6	61738	Gedoch Solar II	IPP	Gedoch Solar II	SC	62218	42	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2026	6	8153	Hartford Steam Co	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN6	6.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	6.0
2026	6	61746	Holiday Solar I	IPP	Holiday Solar I	SC	62229	43	74.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.0
2026	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
2026	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
2026	6	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
2026	6	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
2026	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
2026	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
2026	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
2026	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU12	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2026	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
2026	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
2026	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
2026	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
2026	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
2026	6	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
2026	6	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
2026	6	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
2026	6	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
2026	6	63488	Shady Hills Energy Center, LLC	IPP	Shady Hills Combined Cycle Facility	FL	63802	G001	546.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	573.0
2026	6	61830	Shining Sun Solar	IPP	Shining Sun Solar	SC	62309	73	74.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.0
2026	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
2026	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
2026	6	61834	Stamey Solar	IPP	Stamey Solar	SC	62313	77	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2026	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
2026	6	61862	Thomas Solar	IPP	Thomas Solar	SC	62352	81	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2026	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
2026	6	61869	Wysong Solar	IPP	Wysong Solar	SC	62351	92	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2026	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
2026	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

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	7	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
2026	7	65144	Samsung Solar Energy 2, LLC	IPP	Ursa Solar, LLC	WI	65964	URSA	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2026	8	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
2026	8	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
2026	8	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
2026	8	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
2026	9	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
2026	9	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	10	65110	Winding Stair Wind	IPP	Winding Stair Wind	IA	65938	WINDG	212.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	212.0
2026	11	63806	26SB 8me LLC	IPP	Bellefield 2 Solar & Energy Storage Farm	CA	64209	26SBA	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2026	11	63806	26SB 8me LLC	IPP	Bellefield 2 Solar & Energy Storage Farm	CA	64209	26SBB	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2026	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
2026	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
2026	11	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	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
2026	11	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
2026	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
2026	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
2026	11	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
2026	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
2026	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
2026	12	64246	99MT 8me, LLC	IPP	Sienna Solar Farm	CA	64632	99MT8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2026	12	61714	Battle Solar	IPP	Battle Solar	SC	62182	24	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2026	12	50123	Leeward Asset Management, LLC	IPP	Buena Vista Energy LLC	CA	56446	BVBAT	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	1	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	2	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	3	0.2	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.2
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	4	0.2	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.2
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	5	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	6	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	64800	Nolin Hills Wind, LLC	IPP	Nolin Hills	OR	60070	GEN2	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2026	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	750.0
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	(U) Under construction, less than or equal to 50 percent complete	750.0
2026	12	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
2026	12	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
2026	12	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
2026	12	63721	Skipjack Offshore Energy, LLC	IPP	Skipjack Wind Farm	MD	64083	SJW01	120.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	120.0
2026	12	63721	Skipjack Offshore Energy, LLC	IPP	Skipjack Wind Farm Phase 2	MD	65388	SJW02	846.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	846.0
2026	12	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
2026	12	59056	Tri Global Energy, LLC	IPP	Water Valley Wind Energy	TX	62846	WVVE1	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2026	12	61865	Wayfair Solar	IPP	Wayfair Solar	SC	62345	89	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2027	1	1182	BASF Corporation	Industrial	Geismar	LA	10319	GEN4	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	45.0
2027	1	1182	BASF Corporation	Industrial	Geismar	LA	10319	GEN5	25.0	Natural Gas Steam Turbine	NG	ST	(P) Planned for installation, but regulatory approvals not initiated	25.0
2027	1	5248	Dominion Energy Inc.	Electric Utility	Coastal Virginia Offshore Wind (CVOW) commercial project	VA	64550	CVOWC	1,265.0	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	2,640.0
2027	4	64138	Birch Creek Development, LLC (NC)	IPP	Friesian Holdings	NC	60692	PV1	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2027	6	58597	Enviromission, 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
2027	7	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(P) Planned for installation, but regulatory approvals not initiated	158.5
2027	7	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(P) Planned for installation, but regulatory approvals not initiated	158.5
2027	7	64726	Rivers Electric, LLC	IPP	Mill Pond Hydro	NY	65399	U3	0.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2027	9	63467	Naturgy Candela DevCo LLC	IPP	Chill Sun Solar Project	NV	65895	CS1	2,250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2,250.0
2027	10	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2027	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN1	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6
2027	12	50123	Leeward Asset Management, LLC	IPP	Rose Gold Solar	IN	65471	RG23	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2028	3	63697	BD Solar Auburn LLC	IPP	Auburn PV - BD Solar Auburn LLC	ME	64067	AUBPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2028	3	63701	BD Solar Lewiston Junction LLC	IPP	Lewiston Jn PV - BD Solar Lewiston Jn LLC	ME	64071	LJNPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2028	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU9	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2028	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
2028	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
2028	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
2028	12	61784	Rolling Upland Wind Farm LLC	IPP	Rolling Upland Wind Farm LLC	NY	62262	GEN1	71.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	71.4
2029	1	64720	Orsted North America Inc.	IPP	Ocean Wind II	NJ	65394	OCWII	1,148.0	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	1,148.0
2029	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
2029	12	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0
2030	1	55983												

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)
2030	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM5	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0
2030	11	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM6	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0
2202	1	58487	Montefiore Medical Center Moses Division	Commercial	Montefior Medical Center Moses Division	NY	58507	ES007	3.5	Natural Gas Fired Combustion Turbine	NG	GT	(OP) Operating	

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
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	1	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	10	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	11	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	12	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	13	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	14	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	15	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	16	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	17	1.6	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	18	1.6	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	2	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	3	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	4	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	5	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	6	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	7	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	8	1.4	Landfill Gas	LFG	IC
2022	12	55858	EDL Inc	IPP	Carbon Limestone	OH	56868	9	1.4	Landfill Gas	LFG	IC
2023	1	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Natural Gas Steam Turbine	NG	ST
2023	1	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2023	1	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	2	75.4	Natural Gas Steam Turbine	NG	ST
2023	2	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2023	2	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2023	3	12647	ALLETE, Inc.	Electric Utility	Taconite Harbor Energy Center	MN	10075	GEN1	79.0	Conventional Steam Coal	SUB	ST
2023	3	12647	ALLETE, Inc.	Electric Utility	Taconite Harbor Energy Center	MN	10075	GEN2	75.9	Conventional Steam Coal	SUB	ST
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT1	13.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT2	13.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT3	16.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT4	16.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	1	626.0	Conventional Steam Coal	BIT	ST
2023	3	17698	Southwestern Electric Power Co	Electric Utility	Pirkey	TX	7902	1	650.0	Conventional Steam Coal	LIG	ST
2023	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Mountain Village	AK	6329	3B	0.5	Petroleum Liquids	DFO	IC
2023	4	4226	Consolidated Edison Co-NY Inc	Electric Utility	74th Street	NY	2504	GT1	18.5	Petroleum Liquids	KER	GT
2023	4	4226	Consolidated Edison Co-NY Inc	Electric Utility	74th Street	NY	2504	GT2	19.3	Petroleum Liquids	KER	GT
2023	4	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	ST3	395.0	Natural Gas Steam Turbine	NG	ST
2023	5	8723	City of Holland	Electric Utility	Sixth Street Gas Turbine	MI	6356	1	16.0	Petroleum Liquids	DFO	GT
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	117.1	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2B	117.1	Conventional Steam Coal	SUB	ST
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-1	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-2	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-3	36.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-4	32.5	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	35.7	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-3	33.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-4	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-1	33.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-2	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-3	35.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-4	35.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2023	5	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek	PA	3148	CTG1	18.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek	PA	3148	CTG2	17.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek	PA	3148	CTG4	17.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	5	336.0	Conventional Steam Coal	BIT	ST
2023	5	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	6	670.0	Conventional Steam Coal	BIT	ST
2023	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	3	790.0	Natural Gas Steam Turbine	NG	ST
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	31	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	32	46.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	59774	Crawfordsville Energy LLC	IPP	Crawfordsville Power Plant	IN	1024	4	10.6	Conventional Steam Coal	BIT	ST
2023	6	64226	Energy Harbor Generation LLC	IPP	Pleasants Power Station	WV	6004	1	639.0	Conventional Steam Coal	RC	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	64226	Energy Harbor Generation LLC	IPP	Pleasants Power Station	WV	6004	2	639.0	Conventional Steam Coal	RC	ST
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	5	290.0	Conventional Steam Coal	BIT	ST
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	6	600.0	Conventional Steam Coal	BIT	ST
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	7	600.0	Conventional Steam Coal	BIT	ST
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	A1	3.0	Petroleum Liquids	DFO	IC
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	B1	3.0	Petroleum Liquids	DFO	IC
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	B2	3.0	Petroleum Liquids	DFO	IC
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	B3	2.0	Petroleum Liquids	DFO	IC
2023	6	64226	Energy Harbor Generation LLC	IPP	W H Sammis	OH	2866	B4	2.0	Petroleum Liquids	DFO	IC
2023	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	1	211.6	Natural Gas Steam Turbine	NG	ST
2023	6	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO1	0.5	Petroleum Liquids	DFO	IC
2023	6	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO2	0.5	Petroleum Liquids	DFO	IC
2023	6	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO3	0.3	Petroleum Liquids	DFO	IC
2023	6	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST2	421.8	Conventional Steam Coal	BIT	ST
2023	6	9417	Interstate Power and Light Co	Electric Utility	Lansing	IA	1047	4	241.4	Conventional Steam Coal	SUB	ST
2023	6	4426	NAES Corp	IPP	South Meadow	CT	563	11	35.7	Petroleum Liquids	KER	GT
2023	6	4426	NAES Corp	IPP	South Meadow	CT	563	12	37.7	Petroleum Liquids	KER	GT
2023	6	4426	NAES Corp	IPP	South Meadow	CT	563	13	38.3	Petroleum Liquids	KER	GT
2023	6	4426	NAES Corp	IPP	South Meadow	CT	563	14	36.7	Petroleum Liquids	KER	GT
2023	6	15474	Public Service Co of Oklahoma	Electric Utility	Southwestern	OK	2964	1	56.0	Natural Gas Steam Turbine	NG	ST
2023	6	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H4	0.5	Conventional Hydroelectric	WAT	HY
2023	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	1575	1.6	Conventional Hydroelectric	WAT	HY
2023	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	500	0.5	Conventional Hydroelectric	WAT	HY
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE10	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE11	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE12	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE13	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE14	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN5	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN6	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN7	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN8	0.8	Landfill Gas	LFG	IC
2023	9	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN9	0.8	Landfill Gas	LFG	IC
2023	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	240.0	Conventional Steam Coal	BIT	ST
2023	10	56785	The Westervelt Co	Industrial	Westervelt Moundville Cogen	AL	57467	TG1	8.2	Wood/Wood Waste Biomass	WDS	ST
2023	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2023	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2023	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2023	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2023	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2023	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2023	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2023	12	1058	B Braun Medical Inc	Industrial	B Braun Medical	CA	50200	GEN1	2.7	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	1058	B Braun Medical Inc	Industrial	B Braun Medical	CA	50200	GEN2	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	3	159.0	Conventional Steam Coal	BIT	ST
2023	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	1	162.0	Conventional Steam Coal	BIT	ST
2023	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	5	259.0	Conventional Steam Coal	BIT	ST
2023	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2023	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	4	236.0	Natural Gas Steam Turbine	NG	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	36.0	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	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G10	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G11	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G12	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G13	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G14	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G15	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G16	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G17	46.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G18	46.4	Natural Gas Fired Combustion Turbine	NG	GT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G19	46.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G20	46.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT1	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT2	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT3	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT4	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT5	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT6	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT7	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT8	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT9	15.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	865.0	Conventional Steam Coal	BIT	ST
2024	1	327	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	63843	Ormond Beach Power, LLC	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2024	1	63843	Ormond Beach Power, LLC	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
2024	3	4208	Phillips 66 Company	Industrial	Phillips 66 Carbon Plant	CA	50388	GEN1	20.0	Petroleum Coke	PC	ST
2024	3	14932	US Operating Services Company	Electric CHP	Chambers Cogeneration LP	NJ	10566	GEN1	244.0	Conventional Steam Coal	BIT	ST
2024	5	20847	Wisconsin Electric Power Co	Electric Utility	South Oak Creek	WI	4041	5	242.2	Conventional Steam Coal	RC	ST
2024	5	20847	Wisconsin Electric Power Co	Electric Utility	South Oak Creek	WI	4041	6	253.8	Conventional Steam Coal	RC	ST
2024	5	20847	Wisconsin Electric Power Co	Electric Utility	South Oak Creek	WI	4041	7	306.5	Conventional Steam Coal	RC	ST
2024	5	20847	Wisconsin Electric Power Co	Electric Utility	South Oak Creek	WI	4041	8	309.5	Conventional Steam Coal	RC	ST
2024	5	20860	Wisconsin Public Service Corp	Electric Utility	West Marinette	WI	4076	31	38.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	5	20860	Wisconsin Public Service Corp	Electric Utility	West Marinette	WI	4076	32	36.7	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	49965	Constellation Mystic Power LLC	IPP	Mystic Generating Station	MA	1588	GT81	228.8	Natural Gas Fired Combined Cycle	NG	CT
2024	6	49965	Constellation Mystic Power LLC	IPP	Mystic Generating Station	MA	1588	GT82	230.0	Natural Gas Fired Combined Cycle	NG	CT
2024	6	49965	Constellation Mystic Power LLC	IPP	Mystic Generating Station	MA	1588	GT93	229.9	Natural Gas Fired Combined Cycle	NG	CT
2024	6	49965	Constellation Mystic Power LLC	IPP	Mystic Generating Station	MA	1588	GT94	229.6	Natural Gas Fired Combined Cycle	NG	CT
2024	6	49965	Constellation Mystic Power LLC	IPP	Mystic Generating Station	MA	1588	ST85	244.6	Natural Gas Fired Combined Cycle	NG	CA
2024	6	49965	Constellation Mystic Power LLC	IPP	Mystic Generating Station	MA	1588	ST96	250.7	Natural Gas Fired Combined Cycle	NG	CA
2024	6	11241	Entergy Louisiana LLC	Electric Utility	Waterford 1 & 2	LA	8056	2	422.4	Natural Gas Steam Turbine	NG	ST
2024	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU1	2.8	Conventional Hydroelectric	WAT	HY
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G10	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G11	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G12	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G13	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G14	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G15	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G16	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT1	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT2	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT3	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT4	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT5	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT6	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT7	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT8	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT9	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	9	17539	Dominion Energy South Carolina, Inc	Electric Utility	Coit GT	SC	3281	1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	9	17539	Dominion Energy South Carolina, Inc	Electric Utility	Coit GT	SC	3281	2	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	10	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2024	10	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2024	10	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
2024	10	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2024	11	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	11	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L2G	2.0	Petroleum Liquids	DFO	IC
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

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	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	3	412.0	Natural Gas Steam Turbine	NG	ST
2024	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	76.0	Natural Gas Steam Turbine	NG	ST
2024	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	2	76.0	Natural Gas Steam Turbine	NG	ST
2024	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2024	12	56211	Evergy Missouri West	Electric Utility	Lake Road (MO)	MO	2098	4	94.6	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	105.0	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	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	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2025	1	17568	Cooperative Energy	Electric Utility	Moselle	MS	2070	3	59.0	Natural Gas Steam Turbine	NG	ST
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	15474	Public Service Co of Oklahoma	Electric Utility	Weleetka	OK	2966	4	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	1	15474	Public Service Co of Oklahoma	Electric Utility	Weleetka	OK	2966	5	53.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	4226	Consolidated Edison Co-NY Inc	Electric Utility	59th Street	NY	2503	GT1	13.1	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	6452	Florida Power & Light Co	Electric Utility	Pea Ridge	FL	7715	1	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	6452	Florida Power & Light Co	Electric Utility	Pea Ridge	FL	7715	2	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	6452	Florida Power & Light 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	4254	Consumers Energy Co	Electric Utility	J H Campbell	MI	1710	1	260.0	Conventional Steam Coal	SUB	ST
2025	5	4254	Consumers Energy Co	Electric Utility	J H Campbell	MI	1710	2	355.5	Conventional Steam Coal	SUB	ST
2025	5	4254	Consumers Energy Co	Electric Utility	J H Campbell	MI	1710	3	784.6	Conventional Steam Coal	SUB	ST
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	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	6	814	Entergy Arkansas LLC	Electric Utility	Lake Catherine	AR	170	4	522.0	Natural Gas Steam Turbine	NG	ST
2025	6	18414	TES Filer City Station LP	Electric CHP	TES Filer City Station	MI	50835	GEN1	60.0	Conventional Steam Coal	BIT	ST
2025	6	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	5	416.8	Conventional Steam Coal	SUB	ST
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	1	900.0	Conventional Steam Coal	BIT	ST
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	2	900.0	Conventional Steam Coal	BIT	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	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	951	0.5	Other Waste Biomass	OBG	IC
2025	8	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	952	0.5	Other Waste Biomass	OBG	IC
2025	8	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	953	0.5	Other Waste Biomass	OBG	IC
2025	8	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	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	5517	Dynegy Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	889	1	576.0	Conventional Steam Coal	RC	ST
2025	12	5517	Dynegy Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	889	2	581.0	Conventional Steam Coal	RC	ST
2025	12	8153	Hartford Steam Co	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN2	2.4	Natural Gas Fired Combined Cycle	NG	CA
2025	12	8153	Hartford Steam Co	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN3	6.2	Natural Gas Fired Combined Cycle	NG	CT
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	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	17	361.0	Conventional Steam Coal	BIT	ST
2025	12	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	18	361.0	Conventional Steam Coal	BIT	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2025	12	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	14610	Orlando Utilities Comm	Electric Utility	Stanton Energy Center	FL	564	1	455.0	Conventional Steam Coal	BIT	ST
2025	12	14354	PacifiCorp	Electric Utility	Naughton	WY	4162	1	156.0	Conventional Steam Coal	SUB	ST
2025	12	14354	PacifiCorp	Electric Utility	Naughton	WY	4162	2	201.0	Conventional Steam Coal	SUB	ST
2025	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	BIT	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	Conventional Steam Coal	BIT	ST
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	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	412.5	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	3	367.9	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	4	495.0	Natural Gas Steam Turbine	NG	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	5.9	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	12.6	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	13.3	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	5.8	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU3	2.8	Conventional Hydroelectric	WAT	HY
2026	6	20856	Wisconsin Power & Light Co	Electric Utility	Columbia (WI)	WI	8023	1	579.3	Conventional Steam Coal	RC	ST
2026	6	20856	Wisconsin Power & Light Co	Electric Utility	Columbia (WI)	WI	8023	2	568.8	Conventional Steam Coal	SUB	ST
2026	10	60094	Clinton Battery Utility, LLC	IPP	Clinton Battery	OH	60297	1	5.0	Batteries	MWH	BA
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	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	79.4	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	79.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	6013	Eugene Water & Electric Board	Electric Utility	Carmen Smith	OR	3067	3	3.8	Conventional Hydroelectric	WAT	HY
2026	12	9332	Indian River Operations Inc	IPP	Indian River Generating Station	DE	594	4	410.0	Conventional Steam Coal	BIT	ST
2026	12	56997	Marina Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT1	0.8	Solar Photovoltaic	SUN	PV
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	1	169.0	Natural Gas Steam Turbine	NG	ST
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	2	169.0	Natural Gas Steam Turbine	NG	ST
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	3	273.0	Natural Gas Steam Turbine	NG	ST
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	4	552.0	Natural Gas Steam Turbine	NG	ST
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	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2026	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2026	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
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
2026	12	18642	Tennessee Valley Authority	Electric Utility	Cumberland (TN)	TN	3399	2	1,231.0	Conventional Steam Coal	BIT	ST
2026	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	7	174.0	Conventional Steam Coal	SUB	ST
2026	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	8	174.0	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
2026	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	9	174.0	Conventional Steam Coal	SUB	ST
2027	1	63844	Ellwood Power, LLC	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2027	1	24211	Tucson Electric Power Co	Electric Utility	Springerville	AZ	8223	1	381.0	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	3	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L1G	2.0	Petroleum Liquids	DFO	IC
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED01	140.0	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	140.0	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	170.0	Natural Gas Fired Combined Cycle	NG	CA
2027	6	64726	Rivers Electric, LLC	IPP	Mill Pond Hydro	NY	65399	U2	0.5	Conventional Hydroelectric	WAT	HY
2027	8	61364	Lockheed Martin RMS Syracuse	Industrial	Lockheed Martin RMS Syracuse	NY	61739	SYR1	1.0	Batteries	MWH	BA
2027	12	56570	Coletto Creek Power LP	IPP	Coletto Creek	TX	6178	1	655.0	Conventional Steam Coal	RC	ST
2027	12	59918	Dynegy Kincaid Generation	IPP	Kincaid Generation LLC	IL	876	1	554.0	Conventional Steam Coal	RC	ST
2027	12	59918	Dynegy Kincaid Generation	IPP	Kincaid Generation LLC	IL	876	2	554.0	Conventional Steam Coal	RC	ST
2027	12	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	76.0	Natural Gas Steam Turbine	NG	ST
2027	12	520	Illinois Power Generating Co	IPP	Newton	IL	6017	1	595.0	Conventional Steam Coal	SUB	ST
2027	12	59919	Luminant Miami Fort	IPP	Miami Fort	OH	2832	7	510.0	Conventional Steam Coal	BIT	ST
2027	12	59919	Luminant Miami Fort	IPP	Miami Fort	OH	2832	8	510.0	Conventional Steam Coal	BIT	ST
2027	12	12686	Mississippi Power Co	Electric Utility	Victor J Daniel Jr	MS	6073	1	502.0	Conventional Steam Coal	SUB	ST
2027	12	12686	Mississippi Power Co	Electric Utility	Victor J Daniel Jr	MS	6073	2	502.0	Conventional Steam Coal	SUB	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	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	1	93.0	Conventional Steam Coal	RC	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	2	102.0	Conventional Steam Coal	RC	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	3	220.0	Conventional Steam Coal	RC	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	4	330.0	Conventional Steam Coal	RC	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	Hayden	CO	525	2	262.0	Conventional Steam Coal	BIT	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	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2027	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	4	190.0	Natural Gas Steam Turbine	NG	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	1	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	2	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	3	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	4	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	5	174.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	6	174.0	Conventional Steam Coal	SUB	ST
2028	1	56997	Marina Energy LLC	IPP	Freeze Solar	NJ	60759	PV1	1.5	Solar Photovoltaic	SUN	PV
2028	1	17698	Southwestern Electric Power Co	Electric Utility	Welsh	TX	6139	1	500.0	Conventional Steam Coal	SUB	ST
2028	1	17698	Southwestern Electric Power Co	Electric Utility	Welsh	TX	6139	3	500.0	Conventional Steam Coal	SUB	ST
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	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2028	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2028	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	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
2028	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2028	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	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	61412	Cardinal Operating Company	IPP	Cardinal	OH	2828	1	585.0	Conventional Steam Coal	BIT	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	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST1	635.0	Conventional Steam Coal	RC	ST
2028	12	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST2	635.0	Conventional Steam Coal	RC	ST
2028	12	9324	Indiana Michigan Power Co	Electric Utility	Rockport	IN	6166	1	1,300.0	Conventional Steam Coal	SUB	ST
2028	12	9324	Indiana Michigan Power Co	Electric Utility	Rockport	IN	6166	2	1,300.0	Conventional Steam Coal	SUB	ST
2028	12	61944	MN8 Energy LLC	IPP	ACCC Mays Landing	NJ	60802	PV1	1.4	Solar Photovoltaic	SUN	PV
2028	12	61944	MN8 Energy LLC	IPP	IFF Hazlet	NJ	60709	GRND	3.0	Solar Photovoltaic	SUN	PV
2028	12	15466	Public Service Co of Colorado	Electric Utility	Hayden	CO	525	1	179.0	Conventional Steam Coal	BIT	ST
2028	12	17543	South Carolina Public Service Authority	Electric Utility	Winyah	SC	6249	1	275.0	Conventional Steam Coal	RC	ST
2028	12	17543	South Carolina Public Service Authority	Electric Utility	Winyah	SC	6249	2	285.0	Conventional Steam Coal	RC	ST
2028	12	17543	South Carolina Public Service Authority	Electric Utility	Winyah	SC	6249	3	285.0	Conventional Steam Coal	RC	ST
2028	12	17543	South Carolina Public Service Authority	Electric Utility	Winyah	SC	6249	4	285.0	Conventional Steam Coal	RC	ST
2028	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	1	112.0	Natural Gas Steam Turbine	NG	ST
2028	12	18642	Tennessee Valley Authority	Electric Utility	Cumberland (TN)	TN	3399	1	1,239.0	Conventional Steam Coal	BIT	ST
2028	12	19436	Union Electric Co - (MO)	Electric Utility	Sioux	MO	2107	1	487.0	Conventional Steam Coal	RC	ST
2028	12	19436	Union Electric Co - (MO)	Electric Utility	Sioux	MO	2107	2	487.0	Conventional Steam Coal	RC	ST
2029	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	3	513.5	Natural Gas Steam Turbine	NG	ST
2029	6	8153	Hartford Steam Co	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN4	1.4	Other Natural Gas	NG	FC
2029	9	10875	Lee County Board-Commissioners	IPP	Lee County Solid Waste Energy	FL	52010	GEN1	39.0	Municipal Solid Waste	MSW	ST
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	73.5	Onshore Wind Turbine	WND	WT
2029	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	3	352.0	Conventional Steam Coal	RC	ST
2029	12	3989	City of Colorado Springs - (CO)	Electric Utility	Ray D Nixon	CO	8219	1	208.0	Conventional Steam Coal	SUB	ST
2029	12	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	1	831.0	Conventional Steam Coal	SUB	ST
2029	12	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	2	858.0	Conventional Steam Coal	SUB	ST
2029	12	14354	PacifiCorp	Electric Utility	Naughton	WY	4162	3	247.0	Natural Gas Steam Turbine	NG	ST
2029	12	15143	Platte River Power Authority	Electric Utility	Rawhide	CO	6761	1	280.0	Conventional Steam Coal	SUB	ST
2029	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	3	448.0	Conventional Steam Coal	SUB	ST
2030	5	8973	Town of Hudson - (MA)	Electric Utility	Cherry Street	MA	9038	10	1.9	Natural Gas Internal Combustion Engine	NG	IC
2030	5	8973	Town of Hudson - (MA)	Electric Utility	Cherry Street	MA	9038	11	1.9	Natural Gas Internal Combustion Engine	NG	IC
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	58.0	Petroleum Liquids	DFO	GT
2030	6	16732	San Jose State University Fclts Dev &Ops	Commercial	San Jose Cogeneration	CA	10548	GEN1	5.6	Natural Gas Fired Combustion Turbine	NG	GT
2030	10	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
2030	10	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
2030	10	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
2030	10	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
2030	12	5701	El Paso Electric Co	Electric Utility	Copper	TX	9	1	63.0	Natural Gas Fired Combustion Turbine	NG	GT
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 Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Natural Gas	NG	FC
2031	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	6(4)	738.0	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	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	95.0	Natural Gas Steam Turbine	NG	ST
2031	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	89.0	Natural Gas Fired Combined Cycle	NG	CA
2031	12	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	2	232.0	Natural Gas Steam Turbine	NG	ST
2031	12	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	1	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	2	81.0	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
2031	12	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	2	117.0	Natural Gas Fired Combined Cycle	NG	CA
2031	12	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	5	165.0	Natural Gas Fired Combined Cycle	NG	CT
2031	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	1	243.0	Natural Gas Steam Turbine	NG	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	1	225.0	Conventional Steam Coal	BIT	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	2	225.0	Conventional Steam Coal	BIT	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	3	263.0	Conventional Steam Coal	BIT	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	4	263.0	Conventional Steam Coal	BIT	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT1	71.5	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT2	71.5	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT3	71.5	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT4	71.5	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT5	73.4	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT6	73.4	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT7	73.4	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	GT8	73.4	Natural Gas Fired Combustion Turbine	NG	GT
2032	8	64400	Flower Valley	IPP	Flower Valley I	TX	64915	FLRV1	9.9	Batteries	MWH	BA
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	1	64.0	Natural Gas Steam Turbine	NG	ST
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	2	69.0	Natural Gas Steam Turbine	NG	ST
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	3	104.5	Natural Gas Steam Turbine	NG	ST
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	4	39.6	Natural Gas Fired Combustion Turbine	NG	GT
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	5	39.6	Natural Gas Fired Combustion Turbine	NG	GT
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	6	36.9	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	742.1	Natural Gas Steam Turbine	NG	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	1	134.0	Conventional Steam Coal	SUB	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	2	134.0	Conventional Steam Coal	SUB	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	4	134.0	Conventional Steam Coal	SUB	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	5	134.0	Conventional Steam Coal	SUB	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	6	134.0	Conventional Steam Coal	SUB	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	7	134.0	Conventional Steam Coal	SUB	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	8	134.0	Conventional Steam Coal	SUB	ST
2033	12	18642	Tennessee Valley Authority	Electric Utility	Shawnee	KY	1379	9	134.0	Conventional Steam Coal	SUB	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	1	250.0	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	2	250.0	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	706.5	Natural Gas Steam Turbine	NG	ST
2035	12	20169	Avista Corp	Electric Utility	Northeast (WA)	WA	6210	1	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2035	12	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage CSG	NY	63774	KISCB	0.5	Batteries	MWH	BA
2036	12	14354	PacifiCorp	Electric Utility	Huntington	UT	8069	1	459.0	Conventional Steam Coal	BIT	ST
2036	12	14354	PacifiCorp	Electric Utility	Huntington	UT	8069	2	450.0	Conventional Steam Coal	BIT	ST
2036	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	1	339.0	Conventional Steam Coal	SUB	ST
2037	12	14354	PacifiCorp	Electric Utility	Jim Bridger	WY	8066	1	531.0	Conventional Steam Coal	SUB	ST
2037	12	14354	PacifiCorp	Electric Utility	Jim Bridger	WY	8066	2	539.0	Conventional Steam Coal	SUB	ST
2037	12	14354	PacifiCorp	Electric Utility	Jim Bridger	WY	8066	3	523.0	Conventional Steam Coal	SUB	ST
2037	12	14354	PacifiCorp	Electric Utility	Jim Bridger	WY	8066	4	526.0	Conventional Steam Coal	SUB	ST
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	1	532.0	Conventional Steam Coal	SUB	ST
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	2	535.0	Conventional Steam Coal	SUB	ST
2038	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	2	339.0	Conventional Steam Coal	SUB	ST
2039	10	8153	Hartford Steam Co	Commercial	HSCo CHP	CT	57179	1	3.5	Natural Gas Fired Combustion Turbine	NG	GT
2039	12	14354	PacifiCorp	Electric Utility	Wyodak	WY	6101	1	332.0	Conventional Steam Coal	SUB	ST
2039	12	19436	Union Electric Co - (MO)	Electric Utility	Rush Island	MO	6155	1	622.0	Conventional Steam Coal	RC	ST
2039	12	19436	Union Electric Co - (MO)	Electric Utility	Rush Island	MO	6155	2	622.0	Conventional Steam Coal	RC	ST
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV1	0.1	Solar Photovoltaic	SUN	PV
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV2	0.1	Solar Photovoltaic	SUN	PV
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV3	0.1	Solar Photovoltaic	SUN	PV
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV4	0.1	Solar Photovoltaic	SUN	PV
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV5	0.1	Solar Photovoltaic	SUN	PV
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV6	0.1	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
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV7	0.1	Solar Photovoltaic	SUN	PV
2040	7	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	PV8	0.1	Solar Photovoltaic	SUN	PV
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
2041	4	63424	Silverstrand Grid, LLC	IPP	Silverstrand Grid Energy Storage System	CA	63735	SLV01	11.0	Batteries	MWH	BA
2043	12	57170	EDF Renewable Asset Holdings, Inc.	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT
2043	12	14354	PacifiCorp	Electric Utility	Chehalis Generating Facility	WA	55662	CA	157.0	Natural Gas Fired Combined Cycle	NG	CA
2043	12	14354	PacifiCorp	Electric Utility	Chehalis Generating Facility	WA	55662	CT1	160.0	Natural Gas Fired Combined Cycle	NG	CT
2043	12	14354	PacifiCorp	Electric Utility	Chehalis Generating Facility	WA	55662	CT2	160.0	Natural Gas Fired Combined Cycle	NG	CT
2045	12	62915	Madison Energy Holdings LLC	IPP	ESCA-LL-COLTON, LLC	CA	64270	COLT1	2.6	Solar Photovoltaic	SUN	PV
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	11	64170	Camden Solar LLC	IPP	Camden Solar LLC	NC	64535	KOV4A	20.0	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	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	212.0	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
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2072	8	10875	Lee County Board-Commissioners	IPP	Lee County Solid Waste Energy	FL	52010	GEN2	16.0	Municipal Solid Waste	MSW	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 6.07.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels

Year/Month	Coal		Natural Gas						Petroleum							
	Time Adjusted Capacity (MW)	Capacity Factor														
Annual Data																
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	55.1%	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%
2020	220,623.2	40.5%	274,300.4	57.1%	129,085.6	11.6%	75,462.3	14.2%	5,123.0	15.1%	8,443.3	13.9%	13,875.8	1.2%	5,300.7	1.8%
2021	212,587.0	49.1%	277,618.5	55.0%	130,103.4	11.7%	74,003.4	12.5%	5,171.8	18.2%	8,385.5	14.2%	13,729.8	1.6%	5,522.7	1.8%
2022	203,958.4	47.8%	283,361.4	56.7%	131,906.2	13.7%	73,313.6	13.6%	5,317.5	18.8%	7,625.0	15.7%	13,311.2	2.2%	5,496.9	2.0%
Year 2020																
January	224,000.9	39.4%	270,457.6	58.9%	129,134.8	10.8%	75,759.1	9.4%	5,022.2	14.8%	8,509.9	13.7%	14,106.6	1.3%	5,302.8	2.1%
February	223,958.4	36.8%	270,600.6	59.1%	129,212.5	11.1%	75,759.1	9.4%	5,021.6	14.0%	8,509.9	10.7%	14,082.6	1.1%	5,304.8	1.9%
March	223,101.0	31.2%	271,881.9	53.0%	129,140.8	10.8%	75,735.3	10.7%	5,024.6	14.9%	8,509.9	14.7%	13,850.6	1.1%	5,309.8	1.7%
April	223,121.0	25.8%	272,881.9	48.0%	129,138.0	9.4%	75,735.3	10.2%	5,122.3	12.9%	8,509.9	13.6%	13,850.6	0.8%	5,302.3	1.6%
May	222,401.0	28.8%	274,126.1	48.4%	129,126.0	9.9%	75,597.3	11.9%	5,160.7	12.3%	8,509.9	13.0%	13,850.6	1.0%	5,302.7	1.5%
June	221,034.1	41.8%	275,883.2	60.0%	128,925.2	12.7%	75,478.8	18.3%	5,153.4	14.9%	8,509.9	15.6%	13,850.6	1.2%	5,295.2	1.7%
July	221,034.1	55.3%	275,883.2	71.6%	129,015.4	16.8%	75,461.0	28.4%	5,155.8	18.3%	8,509.9	16.2%	13,850.6	1.7%	5,301.2	1.9%
August	219,894.1	56.5%	275,897.3	69.9%	129,136.8	14.5%	75,449.0	24.1%	5,157.0	18.7%	8,509.9	16.3%	13,850.6	1.4%	5,309.1	1.9%
Sept	218,736.1	44.1%	275,939.6	60.5%	129,076.1	11.4%	75,449.0	15.2%	5,158.2	16.0%	8,509.9	11.4%	13,850.6	1.1%	5,295.0	1.8%
October	217,597.1	37.7%	275,952.2	53.5%	129,035.1	11.4%	75,111.0	14.8%	5,161.4	15.8%	8,509.9	9.2%	13,826.6	1.1%	5,295.0	1.9%
November	217,184.1	39.6%	275,967.2	47.6%	128,966.1	9.4%	75,111.0	9.0%	5,163.0	14.5%	8,509.9	15.0%	13,826.6	1.0%	5,296.4	1.5%
December	215,554.2	49.1%	276,007.2	54.3%	129,120.9	10.3%	74,918.0	8.4%	5,172.7	13.9%	7,723.9	17.4%	13,721.9	1.2%	5,294.2	1.8%
Year 2021																
January	214,601.5	51.5%	275,710.6	54.7%	129,543.1	8.2%	74,184.1	7.8%	5,121.3	15.1%	8,685.9	15.9%	13,743.2	1.0%	5,537.5	1.4%
February	214,601.5	61.1%	276,710.6	51.3%	129,522.1	10.3%	74,184.7	11.9%	5,119.0	17.1%	8,685.9	15.0%	13,743.2	2.2%	5,533.6	2.0%
March	214,052.7	39.5%	276,584.0	45.3%	129,522.1	8.0%	74,184.7	7.6%	5,120.3	15.9%	8,685.9	13.7%	13,743.2	1.3%	5,539.0	1.8%
April	213,710.7	35.7%	276,614.0	45.5%	129,755.4	10.4%	74,184.7	10.0%	5,120.3	16.8%	8,685.9	9.0%	13,743.2	1.4%	5,536.4	1.7%
May	213,152.2	40.9%	276,682.0	47.6%	130,036.3	9.7%	74,081.6	10.1%	5,180.3	14.4%	8,685.9	11.9%	13,743.2	1.3%	5,535.9	1.2%
June	212,180.1	58.1%	277,202.0	61.8%	130,036.3	15.0%	74,081.1	18.0%	5,171.9	20.0%	8,173.5	10.5%	13,734.1	2.0%	5,530.7	1.6%
July	212,180.1	65.4%	277,202.0	67.9%	130,070.3	16.4%	73,989.3	20.0%	5,169.6	22.6%	8,173.5	16.2%	13,734.1	1.8%	5,512.6	1.4%
August	212,180.1	65.6%	277,971.5	68.4%	130,410.4	17.0%	73,989.3	21.3%	5,194.0	23.0%	8,173.5	17.5%	13,734.1	2.3%	5,517.4	1.8%
Sept	212,180.1	52.8%	278,530.7	58.5%	130,499.4	11.1%	73,840.3	14.5%	5,199.4	20.3%	8,173.5	15.8%	13,734.1	1.5%	5,512.0	2.2%
October	211,277.1	40.7%	278,545.7	53.2%	130,499.4	12.4%	73,775.5	12.7%	5,212.2	18.3%	8,173.5	16.0%	13,717.5	1.6%	5,511.2	2.2%
November	211,264.5	39.1%	279,817.8	51.6%	130,663.1	11.6%	73,779.4	9.1%	5,221.7	17.3%	8,173.5	15.9%	13,700.1	1.5%	5,508.5	2.0%
December	209,825.7	39.6%	279,817.8	53.6%	130,644.1	9.6%	73,779.4	7.5%	5,227.7	17.1%	8,173.5	13.8%	13,689.1	1.2%	5,498.2	2.0%
Year 2022																
January	208,882.2	57.2%	280,906.0	56.3%	131,650.0	11.5%	73,310.9	11.2%	5,244.8	16.8%	8,155.3	19.4%	13,556.8	1.7%	5,498.9	1.9%
February	208,822.7	51.7%	280,906.0	53.0%	131,736.0	10.0%	73,310.9	9.2%	5,244.8	15.3%	8,155.3	17.2%	13,556.8	0.9%	5,498.9	1.7%
March	207,630.7	40.0%	281,259.2	46.6%	131,694.5	8.7%	72,736.9	7.4%	5,275.4	13.0%	8,155.3	10.8%	13,522.8	0.9%	5,490.1	1.5%
April	207,185.7	37.6%	281,466.3	44.3%	131,754.0	10.2%	72,736.9	9.0%	5,276.9	14.6%	8,155.3	11.0%	13,396.1	1.0%	5,490.1	1.8%
May	205,661.7	41.7%	280,915.1	49.9%	131,754.0	13.1%	73,526.9	12.8%	5,334.9	15.3%	7,365.3	16.3%	13,370.9	1.6%	5,490.1	2.2%
June	202,905.7	52.0%	283,322.0	61.6%	131,896.8	17.6%	73,522.9	17.7%	5,337.3	20.4%	7,365.3	15.6%	13,224.1	2.4%	5,496.6	2.2%
July	202,923.7	59.3%	284,418.0	70.5%	132,043.3	22.4%	73,522.9	25.2%	5,338.5	25.8%	7,365.3	12.2%	13,224.1	3.5%	5,498.4	1.9%
August	201,975.7	58.4%	285,502.0	72.2%	131,804.3	20.3%	73,522.9	20.7%	5,353.5	27.2%	7,365.3	14.4%	13,224.1	3.0%	5,498.4	2.6%
Sept	201,211.7	46.1%	285,432.0	63.7%	132,014.2	14.6%	73,386.9	15.7%	5,349.6	22.3%	7,365.3	16.5%	13,198.1	1.9%	5,493.0	2.4%
October	201,206.7	37.9%	285,432.0	52.9%	132,105.3	10.7%	73,386.9	11.8%	5,348.6	17.1%	7,365.3	15.3%	13,180.1	1.4%	5,496.9	2.3%
November	201,206.7	40.3%	285,123.9	52.0%	132,137.2	11.8%	73,727.7	11.1%	5,346.5	17.4%	7,365.3	18.8%	13,152.4	1.3%	5,505.7	1.6%
December	198,251.7	50.9%	285,477.9	57.0%	132,274.3	13.6%	73,073.7	10.6%	5,353.5	19.8%	7,365.3	21.8%	13,143.4	6.1%	5,505.7	2.0%

Values for 2021 and prior years are final. Values for 2022 are preliminary.

Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.

Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.

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

Table 6.07.B. Capacity Factors for Utility Scale Generators Primarily Using Non-Fossil Fuels

Year/Month	Geothermal		Hydroelectric		Nuclear		Other Biomass		Other Gas		Solar				Wind		Wood	
	Time Adjusted Capacity (MW)	Capacity Factor																
Annual Data																		
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	34.4%	8,485.0	59.0%
2020	2,561.5	69.1%	79,810.4	40.7%	97,238.3	92.4%	4,653.8	62.5%	2,275.2	64.6%	39,458.1	24.2%	1,747.9	20.6%	107,387.7	35.3%	8,327.2	57.8%
2021	2,588.5	69.8%	79,878.4	36.0%	95,802.7	92.7%	4,490.4	63.2%	1,902.5	60.9%	51,219.7	24.4%	1,629.0	20.5%	123,757.1	34.4%	7,959.0	59.9%
2022	2,622.6	73.4%	79,965.6	37.4%	95,075.6	92.6%	4,431.7	61.2%	1,883.7	61.7%	64,219.2	24.8%	1,480.0	23.1%	136,339.1	36.1%	8,002.3	59.1%
Year 2020																		
January	2,554.7	59.0%	79,765.8	41.3%	98,093.5	101.6%	4,700.3	64.5%	2,275.2	69.7%	35,875.0	15.7%	1,747.9	8.2%	103,858.1	36.2%	8,351.2	62.7%
February	2,554.7	67.7%	79,765.8	46.6%	98,093.5	96.5%	4,700.9	62.6%	2,275.2	67.2%	37,077.5	20.6%	1,747.9	14.6%	104,551.4	39.9%	8,321.7	63.0%
March	2,554.7	75.5%	79,765.8	40.1%	98,093.5	87.7%	4,700.0	65.0%	2,275.2	57.9%	37,500.2	21.8%	1,747.9	14.7%	104,636.5	37.5%	8,321.7	59.2%
April	2,540.1	72.8%	79,765.8	40.4%	97,082.0	83.9%	4,700.0	63.4%	2,275.2	60.6%	37,735.2	27.5%	1,747.9	24.3%	106,196.7	38.6%	8,321.7	56.2%
May	2,550.8	69.9%	79,769.8	50.5%	97,082.0	89.1%	4,698.0	62.9%	2,275.2	62.6%	38,408.7	31.4%	1,747.9	31.7%	106,475.5	35.4%	8,321.7	54.7%
June	2,550.8	67.6%	79,769.8	48.8%	97,082.0	96.2%	4,622.3	60.0%	2,275.2	64.1%	38,802.8	32.1%	1,747.9	29.9%	107,334.9	38.7%	8,308.0	55.2%
July	2,571.9	68.3%	79,771.8	45.1%	97,082.0	96.1%	4,619.2	63.0%	2,275.2	65.7%	39,865.9	33.3%	1,747.9	33.3%	107,951.1	28.2%	8,308.0	56.0%
August	2,571.9	68.0%	79,793.0	39.2%	97,082.0	95.5%	4,619.2	63.7%	2,275.2	66.9%	40,454.3	29.0%	1,747.9	28.2%	108,153.1	28.4%	8,308.0	58.5%
Sept	2,571.9	68.3%	79,793.0	32.5%	97,082.0	94.0%	4,618.4	61.6%	2,275.2	68.3%	41,058.4	24.8%	1,747.9	22.5%	108,677.1	29.3%	8,346.0	56.5%
October	2,571.9	65.9%	79,919.7	31.6%	97,102.0	82.2%	4,617.1	59.5%	2,275.2	60.5%	41,672.4	21.7%	1,747.9	20.0%	109,470.5	34.9%	8,346.0	54.3%
November	2,571.9	74.0%	79,919.7	36.3%	96,500.6	88.9%	4,629.9	60.7%	2,275.2	64.4%	42,042.0	17.9%	1,747.9	13.0%	109,794.4	41.1%	8,346.0	57.5%
December	2,571.9	71.8%	79,921.7	36.2%	96,500.6	97.3%	4,621.9	63.5%	2,275.2	67.9%	42,910.0	14.9%	1,747.9	7.1%	111,449.8	36.5%	8,326.5	60.5%
Year 2021																		
January	2,571.9	69.8%	79,835.5	41.3%	96,585.8	99.9%	4,515.4	65.5%	1,913.0	65.8%	46,650.9	15.5%	1,739.9	6.3%	117,890.3	33.6%	8,086.1	63.0%
February	2,571.9	73.8%	79,840.5	37.5%	96,585.8	97.0%	4,516.0	63.4%	1,913.0	62.0%	46,958.5	19.2%	1,739.9	11.5%	118,996.4	32.8%	8,086.1	61.4%
March	2,571.9	64.2%	79,839.3	35.7%	96,585.8	88.7%	4,506.4	64.6%	1,913.0	62.7%	47,653.4	25.0%	1,739.9	19.9%	119,963.2	43.0%	7,943.1	60.6%
April	2,571.9	68.3%	79,840.2	33.7%	95,546.4	82.1%	4,506.4	63.5%	1,913.0	55.7%	49,269.7	29.4%	1,739.9	26.7%	121,112.1	40.7%	7,943.1	56.7%
May	2,596.7	68.5%	79,845.4	39.2%	95,546.4	89.2%	4,495.2	63.3%	1,913.0	57.9%	49,785.1	31.8%	1,739.9	30.2%	121,846.4	36.5%	7,943.1	57.4%
June	2,596.7	67.9%	79,882.3	40.8%	95,546.4	96.0%	4,484.2	64.1%	1,913.0	64.4%	50,448.9	31.9%	1,739.9	25.8%	123,202.6	29.5%	7,943.1	61.2%
July	2,596.7	69.5%	79,909.8	37.2%	95,546.4	96.8%	4,485.3	63.5%	1,913.0	65.2%	51,174.9	30.5%	1,559.9	22.3%	124,851.0	23.1%	7,927.9	61.5%
August	2,596.7	68.8%	79,907.4	34.3%	95,546.4	97.7%	4,484.7	62.2%	1,888.0	63.1%	52,136.1	29.0%	1,559.9	29.6%	126,118.8	28.8%	7,927.9	62.7%
Sept	2,596.7	71.4%	79,907.4	29.6%	95,546.4	93.8%	4,473.4	62.1%	1,888.0	60.7%	53,619.6	27.5%	1,559.9	26.8%	126,457.2	31.7%	7,927.9	60.2%
October	2,596.7	67.7%	79,909.9	28.8%	95,546.4	80.1%	4,481.4	60.8%	1,888.0	62.5%	54,659.6	21.6%	1,479.9	19.9%	126,805.4	33.8%	7,932.9	54.8%
November	2,596.7	72.4%	79,909.9	33.7%	95,546.4	91.2%	4,470.5	60.2%	1,888.0	53.6%	55,488.0	18.5%	1,479.9	17.9%	128,224.4	38.2%	7,932.9	58.4%
December	2,596.7	76.2%	79,909.8	39.6%	95,546.4	99.5%	4,467.3	64.8%	1,888.0	56.8%	56,506.2	13.4%	1,479.9	8.5%	129,285.2	40.8%	7,923.2	61.2%
Year 2022																		
January	2,596.7	80.4%	79,944.3	44.1%	95,512.1	99.3%	4,470.4	61.8%	1,884.2	61.2%	60,160.0	17.6%	1,480.0	11.3%	132,563.9	38.3%	8,012.6	60.2%
February	2,596.7	74.4%	79,948.4	42.6%	95,512.1	96.4%	4,469.0	61.0%	1,884.2	55.8%	61,160.7	22.0%	1,480.0	15.9%	133,600.3	42.2%	8,012.6	63.4%
March	2,596.7	70.6%	79,958.4	42.6%	95,512.1	88.9%	4,469.0	60.0%	1,884.2	55.6%	61,483.9	25.0%	1,480.0	23.1%	133,861.7	43.0%	8,012.6	58.1%
April	2,596.7	70.2%	79,962.5	34.0%	95,512.1	80.4%	4,461.5	60.8%	1,884.2	55.1%	62,434.9	28.8%	1,480.0	30.1%	134,972.6	46.6%	8,012.6	54.1%
May	2,613.7	70.6%	79,968.1	38.8%	95,533.1	89.2%	4,458.7	61.0%	1,884.2	59.7%	62,885.5	31.2%	1,480.0	33.5%	136,883.4	40.8%	7,994.9	57.1%
June	2,613.7	72.0%	79,970.6	46.7%	94,764.6	96.3%	4,458.7	63.4%	1,884.2	65.1%	63,578.3	33.4%	1,480.0	34.9%	137,099.6	33.7%	7,989.1	62.3%
July	2,613.7	73.2%	79,970.6	40.7%	94,764.6	97.7%	4,403.4	63.2%	1,884.2	69.7%	64,804.3	31.4%	1,480.0	26.3%	137,483.0	28.6%	7,989.1	64.4%
August	2,630.7	73.0%	79,970.6	36.5%	94,764.6	97.7%	4,407.3	61.6%	1,884.2	61.7%	65,389.0	28.5%	1,480.0	25.3%	137,559.5	23.8%	8,001.1	62.2%
Sept	2,652.6	73.5%	79,970.6	29.2%	94,764.6	93.4%	4,398.7	60.0%	1,884.2	63.5%	66,090.2	27.1%	1,480.0	26.7%	137,559.2	27.1%	8,001.1	56.1%
October	2,652.6	67.6%	79,971.1	24.6%	94,764.6	83.6%	4,395.5	60.0%	1,884.2	59.8%	66,855.1	23.6%	1,480.0	26.4%	137,559.2	31.8%	8,001.1	51.3%
November	2,652.6	76.3%	79,971.1	32.6%	94,764.6	90.9%	4,395.5	60.6%	1,884.2	66.8%	67,381.0	16.8%	1,480.0	14.1%	137,559.2	41.7%	8,001.1	59.5%
December	2,652.6	78.6%	79,979.6	36.8%	94,764.6	98.0%	4,395.5	60.8%	1,878.9	65.7%	68,196.0	13.1%	1,480.0	9.0%	139,162.2	37.5%	8,001.1	60.7%

Values for 2021 and prior years are final. Values for 2022 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.

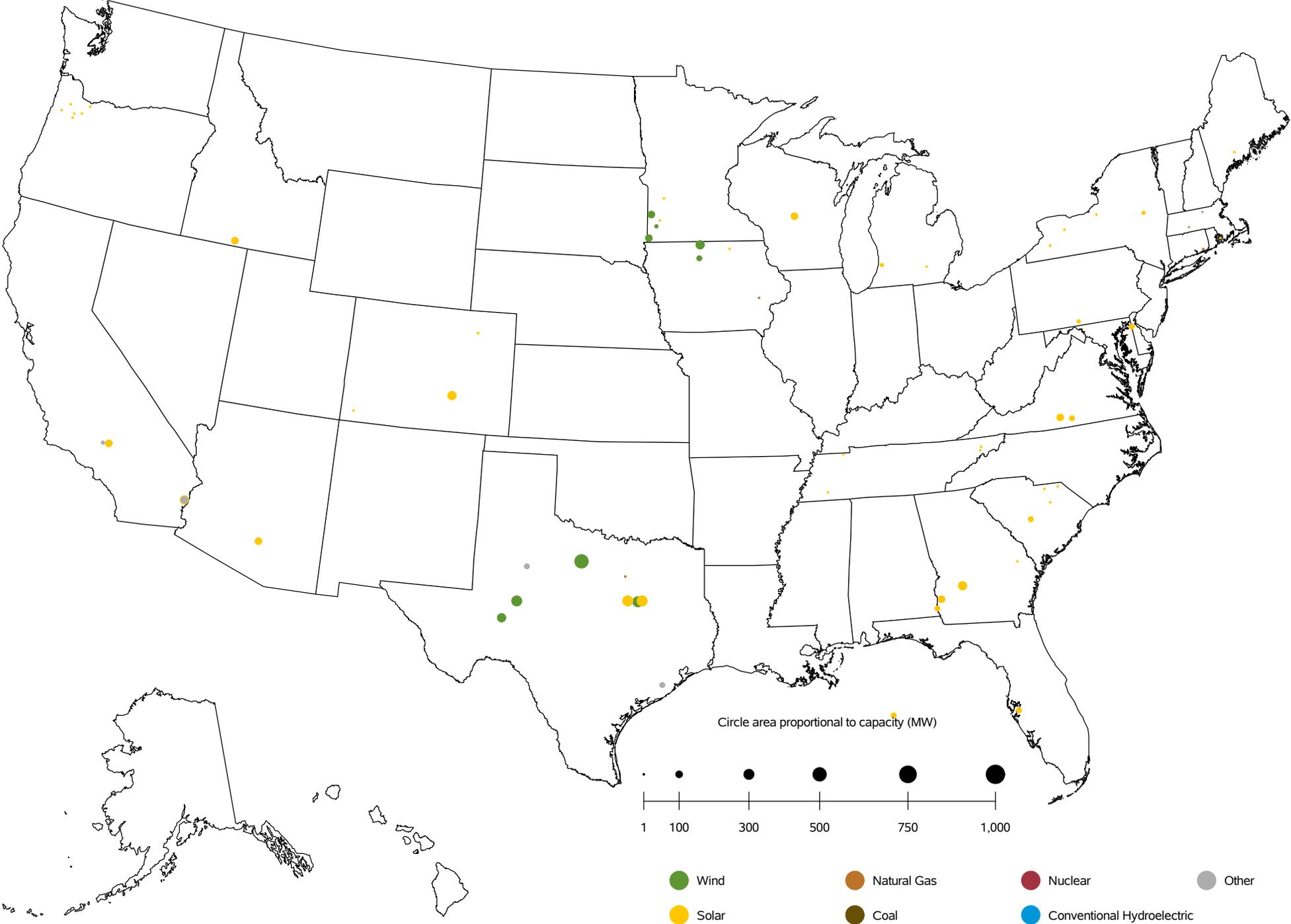
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.07.C. Usage Factors for Utility Scale Storage Generators

Year/Month	Battery		Pumped Storage	
	Time Adjusted Capacity (MW)	Usage Factor	Time Adjusted Capacity (MW)	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%
2020	1,210.3	5.2%	22,939.6	10.5%
2021	2,627.6	6.1%	23,007.7	10.2%
2022	6,424.7	5.0%	23,039.5	11.1%
Year 2020				
January	1,023.4	5.3%	22,917.9	9.0%
February	1,038.8	5.7%	22,917.9	9.1%
March	1,052.5	6.3%	22,917.9	7.9%
April	1,077.2	5.6%	22,917.9	8.2%
May	1,093.1	5.3%	22,917.9	10.8%
June	1,106.9	5.4%	22,917.9	13.4%
July	1,110.5	5.3%	22,917.9	15.9%
August	1,363.8	4.7%	22,917.9	15.0%
Sept	1,395.5	5.0%	22,917.9	11.6%
October	1,395.5	4.8%	22,997.9	8.4%
November	1,419.8	5.0%	22,997.9	7.6%
December	1,440.6	4.6%	23,016.2	8.6%
Year 2021				
January	1,505.6	4.2%	23,007.7	8.1%
February	1,640.0	5.6%	23,007.7	9.0%
March	1,653.0	5.5%	23,007.7	7.4%
April	1,780.4	5.1%	23,007.7	7.2%
May	1,958.8	6.1%	23,007.7	8.7%
June	2,499.4	6.4%	23,007.7	12.4%
July	2,777.0	6.5%	23,007.7	15.2%
August	3,043.5	7.4%	23,007.7	15.9%
Sept	3,110.9	7.1%	23,007.7	12.8%
October	3,304.5	6.0%	23,007.7	9.7%
November	3,765.6	6.2%	23,007.7	7.7%
December	4,418.2	5.8%	23,007.7	8.6%
Year 2022				
January	4,780.1	3.9%	23,019.0	9.5%
February	4,850.4	4.9%	23,019.0	8.9%
March	4,922.9	4.3%	23,019.0	9.1%
April	5,159.2	4.7%	23,019.0	7.3%
May	5,900.3	4.9%	23,049.5	10.9%
June	5,933.7	5.7%	23,049.5	14.8%
July	6,422.8	5.4%	23,049.5	15.9%
August	6,810.4	5.0%	23,049.5	16.4%
Sept	7,329.1	4.8%	23,049.5	13.2%
October	7,817.6	5.4%	23,049.5	8.4%
November	8,495.6	5.4%	23,049.5	9.2%
December	8,561.3	5.3%	23,049.5	9.6%

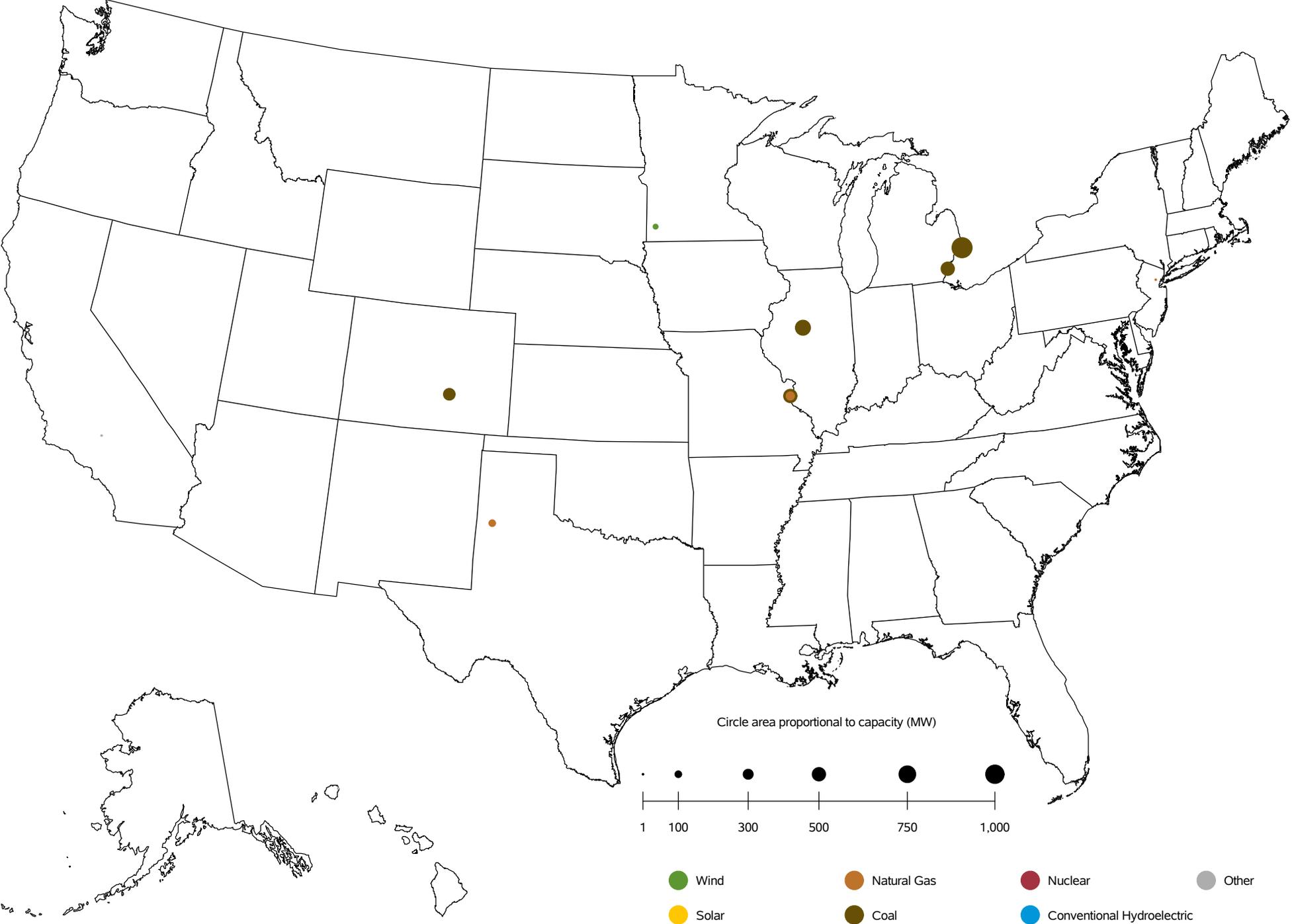
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 Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time 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 December 2022



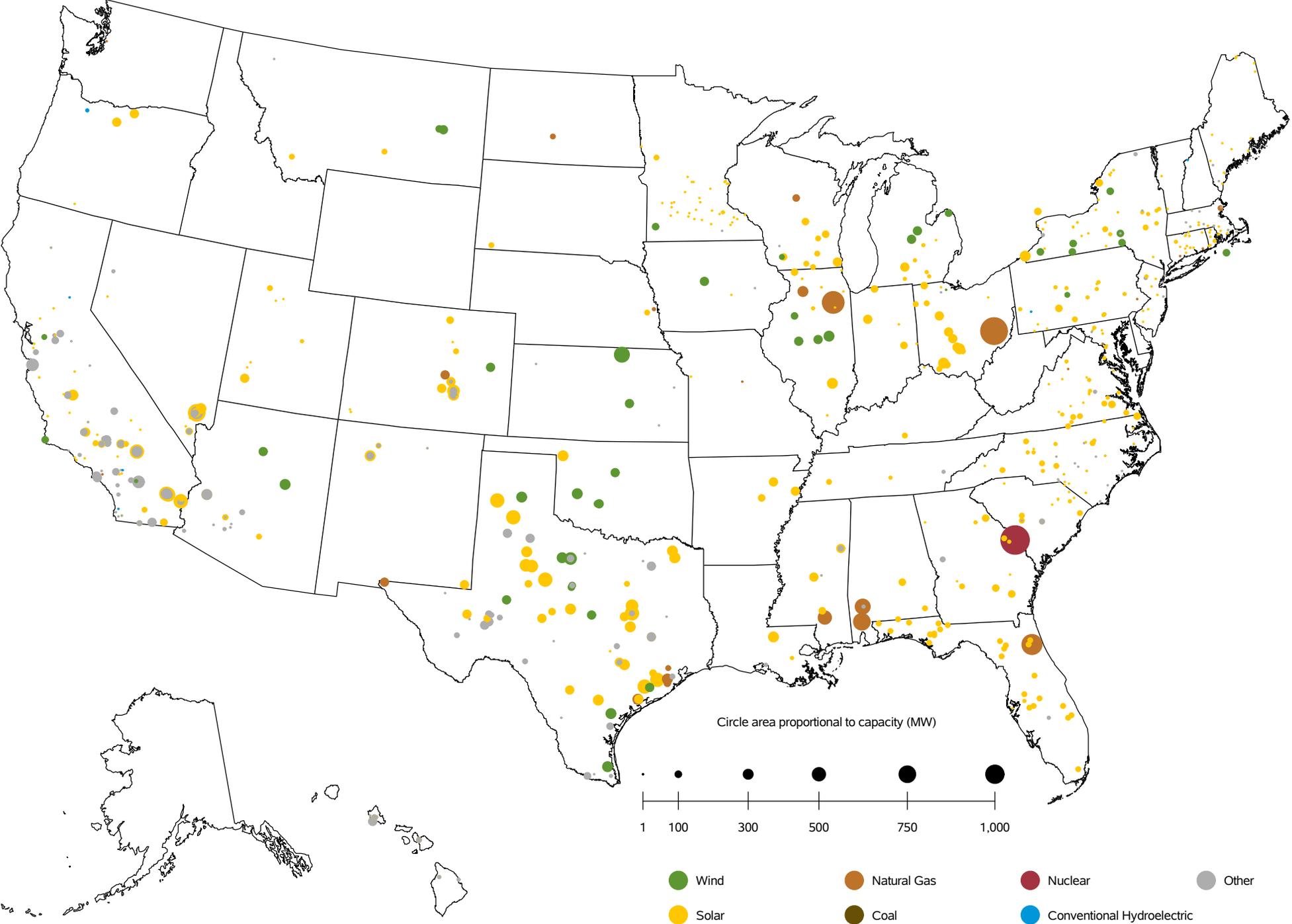
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in December 2022



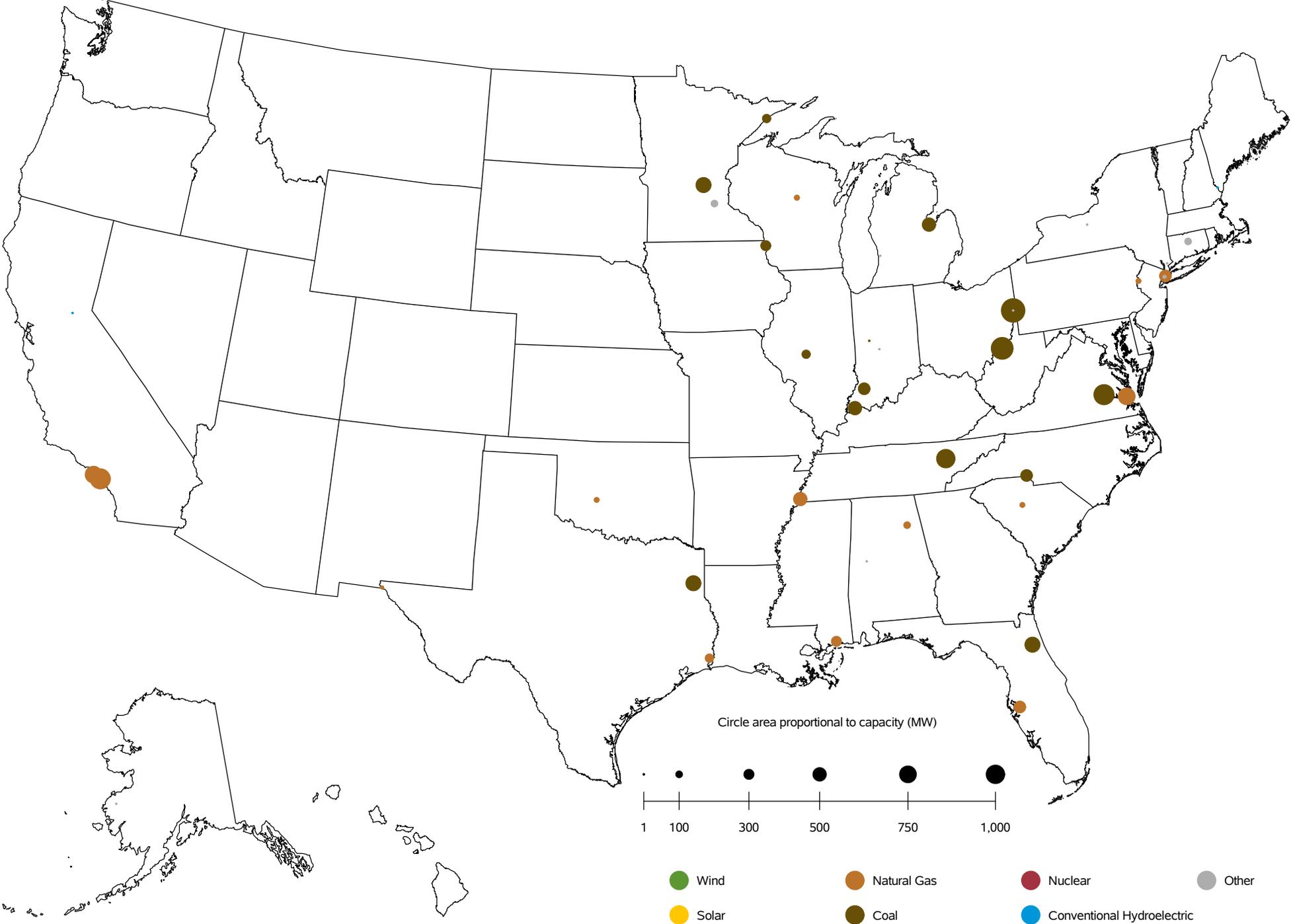
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from January 2023 to December 2023



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 January 2023 to December 2023



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

Chapter 8

Puerto Rico

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

Period	Canada		Mexico		U.S. Total		
	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
2020	57,001,240	9,855,106	4,447,623	4,279,573	61,448,863	14,134,679	47,314,184
2021	48,140,438	10,067,396	5,026,570	3,788,021	53,167,008	13,855,418	39,311,591
2022	52,124,953	10,588,759	4,782,900	5,105,354	56,907,853	15,694,113	41,213,740
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	269,494	347,127	4,703,364	1,459,314	3,244,050
May	4,958,324	1,043,022	240,047	450,202	5,198,371	1,493,224	3,705,147
June	4,915,670	867,147	287,788	432,937	5,203,458	1,300,084	3,903,374
July	6,280,482	740,263	367,673	480,776	6,648,155	1,221,039	5,427,116
August	6,367,384	435,787	445,831	494,764	6,813,215	930,551	5,882,664
Sept	4,217,633	503,089	476,204	450,430	4,693,837	953,519	3,740,318
October	4,143,844	481,489	510,338	288,123	4,654,182	769,612	3,884,570
November	3,671,671	590,604	544,109	211,951	4,215,780	802,555	3,413,225
December	4,908,207	578,256	221,127	228,696	5,129,334	806,952	4,322,382
Year 2021							
January	4,704,055	764,861	382,376	176,358	5,086,432	941,219	4,145,212
February	3,694,600	966,160	329,259	130,833	4,023,859	1,096,993	2,926,866
March	4,150,649	615,495	418,751	127,679	4,569,400	743,174	3,826,227
April	3,820,800	660,489	568,511	404,506	4,389,311	1,064,995	3,324,316
May	4,299,501	655,598	367,632	316,688	4,667,133	972,287	3,694,847
June	4,795,960	514,165	449,614	289,731	5,245,573	803,896	4,441,677
July	4,988,832	633,880	522,890	463,957	5,511,722	1,097,837	4,413,885
August	4,183,247	762,033	454,170	503,812	4,637,417	1,265,845	3,371,572
Sept	3,561,311	760,958	354,095	413,686	3,915,406	1,174,644	2,740,762
October	3,703,920	1,005,425	454,914	302,166	4,158,834	1,307,591	2,851,243
November	2,709,889	1,427,449	254,724	375,267	2,964,613	1,802,716	1,161,897
December	3,527,674	1,300,883	469,634	283,338	3,997,308	1,584,221	2,413,087
Year 2022							
January	4,031,464	1,298,175	425,753	161,194	4,457,217	1,459,369	2,997,848
February	3,206,131	1,162,605	144,626	367,271	3,350,757	1,529,876	1,820,881
March	3,378,326	1,197,887	293,001	477,143	3,671,327	1,675,030	1,996,297
April	3,552,599	934,026	317,755	439,885	3,870,354	1,373,911	2,496,443
May	4,010,343	1,025,038	364,183	582,532	4,374,526	1,607,570	2,766,956
June	5,123,334	641,211	391,371	488,730	5,514,705	1,129,941	4,384,764
July	6,295,212	766,185	443,070	507,701	6,738,282	1,273,886	5,464,396
August	6,810,768	765,145	418,236	550,822	7,229,004	1,315,967	5,913,037
Sept	4,683,783	867,176	504,443	483,658	5,188,226	1,350,834	3,837,392
October	3,730,724	828,576	399,055	413,166	4,129,779	1,241,742	2,888,037
November	3,056,590	551,727	466,374	344,579	3,522,964	896,306	2,626,658
December	4,245,679	551,008	615,033	288,673	4,860,712	839,681	4,021,031

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

**Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2012 - December 2022 (Thousand Megawatthours)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	6,908	7,320	1,910	0	16,138
2021	7,119	7,485	1,853	0	16,457
Year 2020					
January	474	602	137	0	1,213
February	372	541	120	0	1,033
March	488	692	184	0	1,364
April	509	476	138	0	1,124
May	651	501	160	0	1,311
June	641	624	173	0	1,438
July	703	693	172	0	1,567
August	649	643	177	0	1,468
Sept	678	644	167	0	1,490
October	634	704	157	0	1,495
November	579	638	162	0	1,378
December	531	563	162	0	1,255
Year 2021					
January	532	561	132	0	1,225
February	453	506	147	0	1,106
March	526	637	177	0	1,340
April	540	641	139	0	1,320
May	611	657	160	0	1,428
June	596	629	126	0	1,351
July	657	700	149	0	1,507
August	678	627	217	0	1,522
Sept	720	670	170	0	1,561
October	628	587	142	0	1,356
November	608	568	137	0	1,312
December	570	701	158	0	1,429
Year 2022					
January	529	572	163	0	1,264
February	448	577	141	0	1,166
March	504	568	147	0	1,219
April	509	551	129	0	1,190
May	559	722	178	0	1,460
June	691	695	137	0	1,523
July	677	706	160	0	1,543
August	642	643	159	0	1,444
Sept	614	674	144	0	1,433
October	426	525	116	0	1,067
November	587	623	150	0	1,360
December	536	637	144	0	1,316
Year to Date					
2020	6,908	7,320	1,910	0	16,138
2021	7,119	7,485	1,853	0	16,457
2022	6,723	7,494	1,768	0	15,986

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, 2012 - December 2022 (Million Dollars)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	1,329	1,568	361	0	3,258
2021	1,506	1,800	380	0	3,686
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
Sept	116	121	28	0	266
October	97	117	23	0	237
November	111	136	30	0	277
December	106	124	31	0	261
Year 2021					
January	92	108	22	0	222
February	72	95	23	0	190
March	120	149	41	0	310
April	108	150	23	0	281
May	121	136	29	0	285
June	138	152	29	0	320
July	133	170	31	0	333
August	158	163	49	0	370
Sept	161	179	37	0	377
October	142	167	32	0	341
November	138	161	31	0	331
December	123	171	33	0	327
Year 2022					
January	136	154	40	0	331
February	116	168	36	0	321
March	139	188	41	0	368
April	136	182	35	0	353
May	151	226	48	0	425
June	190	204	40	0	435
July	237	238	57	0	532
August	191	212	48	0	452
Sept	170	203	41	0	414
October	140	195	40	0	375
November	157	187	41	0	385
December	138	175	38	0	351
Year to Date					
2020	1,329	1,568	361	0	3,258
2021	1,506	1,800	380	0	3,686
2022	1,902	2,333	505	0	4,740

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, 2012 - December 2022**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	1,351,190	125,391	587	0	1,477,168
2021	1,358,513	126,159	591	0	1,485,263
Year 2020					
January	1,347,813	125,360	589	0	1,473,762
February	1,347,163	125,296	587	0	1,473,046
March	1,346,663	125,159	585	0	1,472,407
April	1,347,149	125,148	586	0	1,472,883
May	1,348,106	125,175	586	0	1,473,867
June	1,348,993	125,185	587	0	1,474,765
July	1,350,313	125,209	588	0	1,476,110
August	1,352,453	125,317	589	0	1,478,359
Sept	1,354,645	125,523	588	0	1,480,756
October	1,355,783	125,643	587	0	1,482,013
November	1,356,794	125,745	588	0	1,483,127
December	1,358,407	125,937	588	0	1,484,932
Year 2021					
January	1,351,470	125,338	588	0	1,477,396
February	1,352,011	125,416	588	0	1,478,015
March	1,353,210	125,563	590	0	1,479,363
April	1,354,747	125,718	590	0	1,481,055
May	1,356,556	125,951	590	0	1,483,097
June	1,357,962	126,093	590	0	1,484,645
July	1,358,817	126,125	591	0	1,485,533
August	1,360,699	126,312	592	0	1,487,603
Sept	1,361,984	126,528	593	0	1,489,105
October	1,363,578	126,710	595	0	1,490,883
November	1,365,047	127,017	593	0	1,492,657
December	1,366,080	127,134	593	0	1,493,807
Year 2022					
January	1,366,102	127,192	590	0	1,493,884
February	1,365,877	127,083	590	0	1,493,550
March	1,366,362	127,175	589	0	1,494,126
April	1,368,406	127,391	587	0	1,496,384
May	1,369,833	127,588	585	0	1,498,006
June	1,372,587	127,920	588	0	1,501,095
July	1,372,079	127,975	588	0	1,500,642
August	1,372,668	127,953	589	0	1,501,210
Sept	1,373,141	128,076	590	0	1,501,807
October	1,374,149	128,106	590	0	1,502,845
November	1,374,192	128,188	589	0	1,502,969
December	1,374,331	128,236	590	0	1,503,157

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, 2012 - December 2022 (Cents per Kilowatthour)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2020	19.24	21.43	18.89	--	20.19
2021	21.16	24.05	20.52	--	22.40
Year 2020					
January	25.75	29.96	26.04	--	27.87
February	26.66	29.78	26.48	--	28.27
March	17.82	20.68	18.38	--	19.35
April	16.76	16.58	15.81	--	16.57
May	23.28	23.63	23.21	--	23.40
June	17.01	19.03	16.89	--	17.87
July	20.08	20.94	19.14	--	20.36
August	15.93	19.32	15.40	--	17.35
Sept	17.14	18.83	16.78	--	17.83
October	15.32	16.65	14.41	--	15.85
November	19.22	21.29	18.33	--	20.07
December	19.95	22.11	18.87	--	20.78
Year 2021					
January	17.37	19.26	16.66	--	18.16
February	15.90	18.75	15.46	--	17.15
March	22.86	23.39	22.95	--	23.13
April	20.00	23.38	16.74	--	21.29
May	19.74	20.63	17.99	--	19.95
June	23.22	24.16	23.31	--	23.67
July	20.18	24.24	20.84	--	22.13
August	23.26	25.93	22.72	--	24.28
Sept	22.29	26.75	21.66	--	24.14
October	22.68	28.44	22.75	--	25.18
November	22.73	28.44	22.75	--	25.20
December	21.60	24.33	20.91	--	22.86
Year 2022					
January	25.72	26.97	24.76	--	26.16
February	25.92	29.16	25.69	--	27.50
March	27.49	33.10	27.86	--	30.15
April	26.69	33.08	27.10	--	29.69
May	27.03	31.24	26.87	--	29.10
June	27.50	29.40	29.29	--	28.53
July	35.05	33.74	35.35	--	34.48
August	29.76	32.99	30.46	--	31.28
Sept	27.71	30.06	28.30	--	28.88
October	32.92	37.13	34.49	--	35.16
November	26.75	30.00	27.11	--	28.28
December	25.75	27.53	26.46	--	26.69
Year to Date					
2020	19.24	21.43	18.89	--	20.19
2021	21.16	24.05	20.52	--	22.40
2022	28.29	31.13	28.56	--	29.65

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-December 2022

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,163	0	3,068	0	0	4,784
2008	454	98	1,163	0	3,500	0	0	5,215
2009	454	98	1,163	0	3,623	0	0	5,338
2010	454	98	1,163	0	3,625	0	0	5,340
2011	454	98	1,163	0	3,627	5	0	5,347
2012	454	98	1,163	0	3,628	21	98	5,462
2013	454	98	1,163	0	3,628	24	98	5,465
2014	454	98	1,163	0	3,630	35	99	5,479
2015	454	98	1,163	9	3,634	68	99	5,524
2016	454	98	1,163	33	3,634	142	99	5,623
2017	454	98	1,163	35	3,635	142	99	5,626
2018	454	98	1,349	35	3,638	142	99	5,816
2019	454	98	1,358	35	3,643	146	99	5,834
2020	454	98	1,367	38	3,645	156	99	5,858
2021	454	98	1,367	38	3,647	156	99	5,859
Year 2022								
January	454	98	1,367	35	3,647	152	99	5,853
February	454	98	1,367	35	3,647	152	99	5,853
March	454	98	1,367	35	3,647	152	99	5,853
April	454	98	1,367	35	3,647	152	99	5,853
May	454	98	1,367	35	3,647	152	99	5,853
June	454	98	1,367	35	3,647	152	99	5,853
July	454	98	1,367	35	3,647	152	99	5,853
August	454	98	1,367	35	3,647	152	99	5,853
Sept	454	98	1,367	35	3,647	152	99	5,853
October	454	98	1,367	35	3,647	152	99	5,853
November	454	98	1,371	35	3,647	152	99	5,857
December	454	98	1,371	35	3,648	152	99	5,859

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, December 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	9	0	3	0	0	7
Connecticut	0	33	0	2	0	0	20
Maine	0	4	0	13	0	0	9
Massachusetts	0	10	0	4	0	0	13
New Hampshire	0	6	0	0	0	0	17
Rhode Island	0	101	0	15	0	0	0
Vermont	0	180	0	0	0	0	13
Middle Atlantic	6	8	0	1	21	0	2
New Jersey	0	8	0	3	0	0	0
New York	0	9	0	2	0	0	1
Pennsylvania	6	15	0	1	26	0	8
East North Central	1	26	7	1	7	0	8
Illinois	0	53	0	6	0	0	35
Indiana	1	45	0	3	13	0	23
Michigan	3	35	0	2	0	0	17
Ohio	2	28	20	2	20	0	18
Wisconsin	0	138	0	2	0	0	13
West North Central	1	26	0	5	0	0	6
Iowa	1	105	0	7	0	0	18
Kansas	0	58	0	15	0	0	0
Minnesota	1	177	0	9	0	0	23
Missouri	0	26	0	10	0	0	11
Nebraska	5	185	0	35	0	0	19
North Dakota	0	88	0	27	0	0	14
South Dakota	0	202	0	28	0	0	9
South Atlantic	1	13	4	1	0	0	5
Delaware	0	16	0	9	0	0	0
District of Columbia	0	3,020	0	47	0	0	0
Florida	0	30	0	1	0	0	26
Georgia	1	25	41	2	0	0	8
Maryland	0	23	0	3	0	0	1
North Carolina	0	33	0	1	0	0	6
South Carolina	0	39	0	1	0	0	11
Virginia	0	23	0	2	0	0	13
West Virginia	2	0	0	12	0	0	10
East South Central	0	5	0	1	0	0	3
Alabama	0	16	0	2	0	0	4
Kentucky	0	9	0	2	0	0	5
Mississippi	0	2	0	1	0	0	0
Tennessee	0	0	0	3	0	0	4
West South Central	0	51	0	1	5	0	5
Arkansas	0	160	0	4	0	0	7
Louisiana	0	218	0	1	8	0	13
Oklahoma	0	101	0	2	0	0	8
Texas	0	55	0	1	4	0	14
Mountain	2	34	0	1	6	0	4
Arizona	0	39	0	1	0	0	5
Colorado	0	78	0	3	0	0	19
Idaho	166	0	0	11	0	0	8
Montana	8	20	0	9	57	0	7
Nevada	0	0	0	1	0	0	2
New Mexico	0	566	0	3	0	0	70
Utah	0	11	0	2	0	0	33
Wyoming	5	3	0	6	6	0	24
Pacific Contiguous	0	6	0	1	0	0	1
California	0	5	0	1	0	0	9
Oregon	0	4,828	0	3	0	0	2
Washington	0	9	0	4	0	0	1
Pacific Noncontiguous	33	3	0	20	0	0	15
Alaska	33	16	0	20	0	0	16
Hawaii	0	2	0	0	0	0	37
U.S. Total	0	6	2	0	4	0	1

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

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

Total (All Sectors) by Census Division and State, December 2022 (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	3	0	0	1
Connecticut	0	0	0	13	10	0	0	1
Maine	0	0	0	14	5	0	0	4
Massachusetts	0	0	0	7	5	0	0	3
New Hampshire	0	0	0	142	12	0	0	2
Rhode Island	0	0	0	15	8	0	0	13
Vermont	0	0	0	21	6	0	0	7
Middle Atlantic	0	0	0	5	3	0	1	1
New Jersey	0	0	0	7	4	0	0	1
New York	0	0	0	7	4	0	2	1
Pennsylvania	0	0	0	17	5	0	0	1
East North Central	0	0	0	3	1	0	1	0
Illinois	0	0	0	6	2	0	0	1
Indiana	0	0	0	9	3	0	0	1
Michigan	0	0	0	11	3	0	9	1
Ohio	0	0	0	7	2	0	0	1
Wisconsin	0	0	0	7	4	0	17	1
West North Central	0	0	0	5	1	0	5	1
Iowa	0	0	0	8	1	0	0	1
Kansas	0	0	0	24	2	0	0	1
Minnesota	0	0	0	7	3	0	5	2
Missouri	0	0	0	25	1	0	0	1
Nebraska	0	0	0	36	2	0	0	3
North Dakota	0	0	0	0	3	0	27	2
South Dakota	0	0	0	200	2	0	0	4
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	20	20	0	0	7
District of Columbia	0	0	0	64	12	0	0	27
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	2	2	0	0	1
Maryland	0	0	0	8	3	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	4	3	0	0	0
Virginia	0	0	0	3	4	0	0	1
West Virginia	0	0	0	0	0	0	0	2
East South Central	0	0	0	3	2	0	15	0
Alabama	0	0	0	4	3	0	0	1
Kentucky	0	0	0	13	12	0	0	1
Mississippi	0	0	0	3	3	0	0	1
Tennessee	0	0	0	6	6	0	192	1
West South Central	0	0	0	0	1	0	2	0
Arkansas	0	0	0	4	5	0	0	2
Louisiana	0	0	0	7	4	0	0	1
Oklahoma	0	0	0	25	2	0	0	1
Texas	0	0	0	0	1	0	4	1
Mountain	0	12	0	1	1	0	1	1
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	3	2	0	0	1
Idaho	0	61	0	7	8	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	12	0	1	6	0	0	2
New Mexico	0	0	0	4	1	0	0	1
Utah	0	29	0	2	6	0	8	1
Wyoming	0	0	0	0	3	0	0	3
Pacific Contiguous	0	6	0	1	2	0	0	1
California	0	6	0	1	2	0	0	1
Oregon	0	40	0	7	4	0	0	2
Washington	0	0	0	9	5	0	0	1
Pacific Noncontiguous	0	44	0	5	11	0	0	5
Alaska	0	0	0	317	36	0	0	11
Hawaii	0	44	0	5	12	0	0	3
U.S. Total	0	7	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 December 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	9	0	3	0	0	7
Connecticut	0	33	0	2	0	0	20
Maine	0	4	0	13	0	0	9
Massachusetts	0	10	0	4	0	0	13
New Hampshire	0	6	0	0	0	0	17
Rhode Island	0	101	0	15	0	0	0
Vermont	0	180	0	0	0	0	13
Middle Atlantic	6	8	0	1	21	0	2
New Jersey	0	8	0	3	0	0	0
New York	0	9	0	2	0	0	1
Pennsylvania	6	15	0	1	26	0	8
East North Central	1	26	7	1	7	0	8
Illinois	0	53	0	6	0	0	35
Indiana	1	45	0	3	13	0	23
Michigan	3	35	0	2	0	0	17
Ohio	2	28	20	2	20	0	18
Wisconsin	0	138	0	2	0	0	13
West North Central	1	26	0	5	0	0	6
Iowa	1	105	0	7	0	0	18
Kansas	0	58	0	15	0	0	0
Minnesota	1	177	0	9	0	0	23
Missouri	0	26	0	10	0	0	11
Nebraska	5	185	0	35	0	0	19
North Dakota	0	88	0	27	0	0	14
South Dakota	0	202	0	28	0	0	9
South Atlantic	1	13	4	1	0	0	5
Delaware	0	16	0	9	0	0	0
District of Columbia	0	3,020	0	47	0	0	0
Florida	0	30	0	1	0	0	26
Georgia	1	25	41	2	0	0	8
Maryland	0	23	0	3	0	0	1
North Carolina	0	33	0	1	0	0	6
South Carolina	0	39	0	1	0	0	11
Virginia	0	23	0	2	0	0	13
West Virginia	2	0	0	12	0	0	10
East South Central	0	5	0	1	0	0	3
Alabama	0	16	0	2	0	0	4
Kentucky	0	9	0	2	0	0	5
Mississippi	0	2	0	1	0	0	0
Tennessee	0	0	0	3	0	0	4
West South Central	0	51	0	1	5	0	5
Arkansas	0	160	0	4	0	0	7
Louisiana	0	218	0	1	8	0	13
Oklahoma	0	101	0	2	0	0	8
Texas	0	55	0	1	4	0	14
Mountain	2	34	0	1	6	0	4
Arizona	0	39	0	1	0	0	5
Colorado	0	78	0	3	0	0	19
Idaho	166	0	0	11	0	0	8
Montana	8	20	0	9	57	0	7
Nevada	0	0	0	1	0	0	2
New Mexico	0	566	0	3	0	0	70
Utah	0	11	0	2	0	0	33
Wyoming	5	3	0	6	6	0	24
Pacific Contiguous	0	6	0	1	0	0	1
California	0	5	0	1	0	0	9
Oregon	0	4,828	0	3	0	0	2
Washington	0	9	0	4	0	0	1
Pacific Noncontiguous	33	3	0	20	0	0	15
Alaska	33	16	0	20	0	0	16
Hawaii	0	2	0	0	0	0	37
U.S. Total	0	6	2	0	4	0	1

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through December 2022 (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	3	0	0	1
Connecticut	0	0	0	13	10	0	0	1
Maine	0	0	0	14	5	0	0	4
Massachusetts	0	0	0	7	5	0	0	3
New Hampshire	0	0	0	142	12	0	0	2
Rhode Island	0	0	0	15	8	0	0	13
Vermont	0	0	0	21	6	0	0	7
Middle Atlantic	0	0	0	5	3	0	1	1
New Jersey	0	0	0	7	4	0	0	1
New York	0	0	0	7	4	0	2	1
Pennsylvania	0	0	0	17	5	0	0	1
East North Central	0	0	0	3	1	0	1	0
Illinois	0	0	0	6	2	0	0	1
Indiana	0	0	0	9	3	0	0	1
Michigan	0	0	0	11	3	0	9	1
Ohio	0	0	0	7	2	0	0	1
Wisconsin	0	0	0	7	4	0	17	1
West North Central	0	0	0	5	1	0	5	1
Iowa	0	0	0	8	1	0	0	1
Kansas	0	0	0	24	2	0	0	1
Minnesota	0	0	0	7	3	0	5	2
Missouri	0	0	0	25	1	0	0	1
Nebraska	0	0	0	36	2	0	0	3
North Dakota	0	0	0	0	3	0	27	2
South Dakota	0	0	0	200	2	0	0	4
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	20	20	0	0	7
District of Columbia	0	0	0	64	12	0	0	27
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	2	2	0	0	1
Maryland	0	0	0	8	3	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	4	3	0	0	0
Virginia	0	0	0	3	4	0	0	1
West Virginia	0	0	0	0	0	0	0	2
East South Central	0	0	0	3	2	0	15	0
Alabama	0	0	0	4	3	0	0	1
Kentucky	0	0	0	13	12	0	0	1
Mississippi	0	0	0	3	3	0	0	1
Tennessee	0	0	0	6	6	0	192	1
West South Central	0	0	0	0	1	0	2	0
Arkansas	0	0	0	4	5	0	0	2
Louisiana	0	0	0	7	4	0	0	1
Oklahoma	0	0	0	25	2	0	0	1
Texas	0	0	0	0	1	0	4	1
Mountain	0	12	0	1	1	0	1	1
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	3	2	0	0	1
Idaho	0	61	0	7	8	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	12	0	1	6	0	0	2
New Mexico	0	0	0	4	1	0	0	1
Utah	0	29	0	2	6	0	8	1
Wyoming	0	0	0	0	3	0	0	3
Pacific Contiguous	0	6	0	1	2	0	0	1
California	0	6	0	1	2	0	0	1
Oregon	0	40	0	7	4	0	0	2
Washington	0	0	0	9	5	0	0	1
Pacific Noncontiguous	0	44	0	5	11	0	0	5
Alaska	0	0	0	317	36	0	0	11
Hawaii	0	44	0	5	12	0	0	3
U.S. Total	0	7	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, December 2022

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	2	.	0
Connecticut	0	1	0	.	0
Maine	0	0	0	.	0
Massachusetts	0	1	4	.	1
New Hampshire	0	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	2	2	0	.	2
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	1	1	.	1
Illinois	1	2	11	.	1
Indiana	4	1	9	.	2
Michigan	2	7	12	.	2
Ohio	3	2	1	.	2
Wisconsin	4	6	1	.	3
West North Central	1	1	3	.	1
Iowa	3	1	6	.	1
Kansas	3	2	0	.	2
Minnesota	3	2	3	.	2
Missouri	2	1	8	.	1
Nebraska	4	5	18	.	3
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	2	1	1	.	1
Delaware	4	0	8	.	3
District of Columbia	0	0	0	.	0
Florida	3	2	1	.	3
Georgia	77	15	0	.	56
Maryland	1	1	3	.	1
North Carolina	4	2	0	.	3
South Carolina	6	2	0	.	4
Virginia	7	2	1	.	5
West Virginia	0	0	0	.	0
East South Central	3	3	1	.	3
Alabama	0	0	0	.	0
Kentucky	4	4	0	.	3
Mississippi	9	7	6	.	6
Tennessee	0	0	0	.	0
West South Central	3	7	3	.	3
Arkansas	6	11	3	.	5
Louisiana	5	12	0	.	4
Oklahoma	10	12	0	.	8
Texas	5	11	51	.	4
Mountain	0	0	1	.	0
Arizona	0	0	0	.	0
Colorado	1	0	4	.	1
Idaho	1	1	0	.	0
Montana	1	0	0	.	1
Nevada	0	0	0	.	0
New Mexico	1	1	0	.	1
Utah	0	0	0	.	0
Wyoming	1	0	0	.	1
Pacific Contiguous	0	0	0	.	0
California	0	0	0	.	0
Oregon	2	1	1	.	1
Washington	2	2	3	.	2
Pacific Noncontiguous	0	0	0	.	0
Alaska	0	0	0	.	0
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, December 2022**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	26	0	105	0	0	17
Connecticut	0	216	0	0	0	0	27
Maine	0	0	0	0	0	0	370
Massachusetts	0	26	0	161	0	0	28
New Hampshire	0	0	0	0	0	0	130
Rhode Island	0	0	0	0	0	0	0
Vermont	0	180	0	0	0	0	22
Middle Atlantic	0	14	0	5	0	0	1
New Jersey	0	0	0	125	0	0	0
New York	0	14	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	1	36	0	2	0	0	9
Illinois	0	95	0	20	0	0	36
Indiana	1	49	0	6	0	0	22
Michigan	3	37	0	5	0	0	18
Ohio	10	24	0	5	0	0	22
Wisconsin	0	144	0	2	0	0	14
West North Central	1	26	0	6	0	0	6
Iowa	1	109	0	7	0	0	18
Kansas	0	58	0	17	0	0	0
Minnesota	1	219	0	11	0	0	31
Missouri	0	26	0	14	0	0	11
Nebraska	5	185	0	35	0	0	19
North Dakota	0	89	0	27	0	0	14
South Dakota	0	202	0	29	0	0	9
South Atlantic	0	19	0	1	0	0	5
Delaware	0	0	0	0	0	0	0
Florida	0	35	0	1	0	0	26
Georgia	0	35	0	2	0	0	7
Maryland	0	4	0	0	0	0	0
North Carolina	0	35	0	0	0	0	7
South Carolina	0	43	0	1	0	0	11
Virginia	0	37	0	3	0	0	13
West Virginia	0	0	0	0	0	0	15
East South Central	0	6	0	1	0	0	3
Alabama	0	31	0	5	0	0	4
Kentucky	0	9	0	3	0	0	5
Mississippi	0	5	0	1	0	0	0
Tennessee	0	0	0	3	0	0	5
West South Central	0	81	0	2	0	0	6
Arkansas	0	234	0	4	0	0	7
Louisiana	0	218	0	1	0	0	0
Oklahoma	0	113	0	4	0	0	8
Texas	0	97	0	3	0	0	14
Mountain	1	40	0	1	0	0	4
Arizona	0	39	0	1	0	0	5
Colorado	0	113	0	2	0	0	21
Idaho	0	0	0	11	0	0	8
Montana	0	26	0	11	0	0	7
Nevada	0	0	0	1	0	0	0
New Mexico	0	566	0	4	0	0	70
Utah	0	11	0	3	0	0	36
Wyoming	5	3	0	8	0	0	24
Pacific Contiguous	0	35	0	2	0	0	1
California	0	125	0	2	0	0	8
Oregon	0	6,079	0	6	0	0	2
Washington	0	9	0	6	0	0	1
Pacific Noncontiguous	48	4	0	21	0	0	16
Alaska	48	16	0	21	0	0	17
Hawaii	0	3	0	0	0	0	0
U.S. Total	0	8	0	1	0	0	1

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

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

Electric Utilities by Census Division and State, December 2022 (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	20	4	0	0	10
Connecticut	0	0	0	0	0	0	0	27
Maine	0	0	0	0	0	0	0	370
Massachusetts	0	0	0	27	25	0	0	20
New Hampshire	0	0	0	0	0	0	0	130
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	11	3	0	0	8
Middle Atlantic	0	0	0	25	25	0	0	2
New Jersey	0	0	0	25	25	0	0	76
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	8	3	0	16	1
Illinois	0	0	0	52	22	0	0	9
Indiana	0	0	0	14	12	0	0	2
Michigan	0	0	0	29	3	0	0	1
Ohio	0	0	0	97	126	0	0	5
Wisconsin	0	0	0	8	6	0	17	1
West North Central	0	0	0	13	2	0	8	1
Iowa	0	0	0	12	2	0	0	1
Kansas	0	0	0	206	5	0	0	2
Minnesota	0	0	0	53	6	0	0	2
Missouri	0	0	0	58	0	0	0	1
Nebraska	0	0	0	102	36	0	0	4
North Dakota	0	0	0	0	6	0	27	2
South Dakota	0	0	0	0	10	0	0	8
South Atlantic	0	0	0	1	2	0	0	0
Delaware	0	0	0	112	112	0	0	3
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	5	5	0	0	1
Maryland	0	0	0	97	97	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	97	41	0	0	0
Virginia	0	0	0	3	8	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	29	23	0	0	1
Alabama	0	0	0	54	54	0	0	1
Kentucky	0	0	0	35	25	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	170	170	0	0	1
West South Central	0	0	0	22	4	0	0	1
Arkansas	0	0	0	91	91	0	0	2
Louisiana	0	0	0	46	46	0	0	1
Oklahoma	0	0	0	24	5	0	0	2
Texas	0	0	0	71	11	0	0	2
Mountain	0	44	0	7	2	0	13	1
Arizona	0	0	0	10	10	0	0	0
Colorado	0	0	0	78	2	0	0	1
Idaho	0	0	0	0	30	0	0	6
Montana	0	0	0	0	7	0	0	5
Nevada	0	0	0	8	8	0	0	1
New Mexico	0	0	0	13	1	0	0	2
Utah	0	44	0	0	44	0	33	1
Wyoming	0	0	0	0	4	0	0	4
Pacific Contiguous	0	0	0	14	5	0	0	1
California	0	0	0	14	6	0	0	2
Oregon	0	0	0	120	10	0	0	2
Washington	0	0	0	100	7	0	0	1
Pacific Noncontiguous	0	0	0	17	34	0	0	6
Alaska	0	0	0	317	54	0	0	12
Hawaii	0	0	0	17	14	0	0	3
U.S. Total	0	12	0	1	1	0	4	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 December 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	26	0	105	0	0	17
Connecticut	0	216	0	0	0	0	27
Maine	0	0	0	0	0	0	370
Massachusetts	0	26	0	161	0	0	28
New Hampshire	0	0	0	0	0	0	130
Rhode Island	0	0	0	0	0	0	0
Vermont	0	180	0	0	0	0	22
Middle Atlantic	0	14	0	5	0	0	1
New Jersey	0	0	0	125	0	0	0
New York	0	14	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	1	36	0	2	0	0	9
Illinois	0	95	0	20	0	0	36
Indiana	1	49	0	6	0	0	22
Michigan	3	37	0	5	0	0	18
Ohio	10	24	0	5	0	0	22
Wisconsin	0	144	0	2	0	0	14
West North Central	1	26	0	6	0	0	6
Iowa	1	109	0	7	0	0	18
Kansas	0	58	0	17	0	0	0
Minnesota	1	219	0	11	0	0	31
Missouri	0	26	0	14	0	0	11
Nebraska	5	185	0	35	0	0	19
North Dakota	0	89	0	27	0	0	14
South Dakota	0	202	0	29	0	0	9
South Atlantic	0	19	0	1	0	0	5
Delaware	0	0	0	0	0	0	0
Florida	0	35	0	1	0	0	26
Georgia	0	35	0	2	0	0	7
Maryland	0	4	0	0	0	0	0
North Carolina	0	35	0	0	0	0	7
South Carolina	0	43	0	1	0	0	11
Virginia	0	37	0	3	0	0	13
West Virginia	0	0	0	0	0	0	15
East South Central	0	6	0	1	0	0	3
Alabama	0	31	0	5	0	0	4
Kentucky	0	9	0	3	0	0	5
Mississippi	0	5	0	1	0	0	0
Tennessee	0	0	0	3	0	0	5
West South Central	0	81	0	2	0	0	6
Arkansas	0	234	0	4	0	0	7
Louisiana	0	218	0	1	0	0	0
Oklahoma	0	113	0	4	0	0	8
Texas	0	97	0	3	0	0	14
Mountain	1	40	0	1	0	0	4
Arizona	0	39	0	1	0	0	5
Colorado	0	113	0	2	0	0	21
Idaho	0	0	0	11	0	0	8
Montana	0	26	0	11	0	0	7
Nevada	0	0	0	1	0	0	0
New Mexico	0	566	0	4	0	0	70
Utah	0	11	0	3	0	0	36
Wyoming	5	3	0	8	0	0	24
Pacific Contiguous	0	35	0	2	0	0	1
California	0	125	0	2	0	0	8
Oregon	0	6,079	0	6	0	0	2
Washington	0	9	0	6	0	0	1
Pacific Noncontiguous	48	4	0	21	0	0	16
Alaska	48	16	0	21	0	0	17
Hawaii	0	3	0	0	0	0	0
U.S. Total	0	8	0	1	0	0	1

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

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

Electric Utilities by Census Division and State, Year-to-Date through December 2022 (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	20	4	0	0	10
Connecticut	0	0	0	0	0	0	0	27
Maine	0	0	0	0	0	0	0	370
Massachusetts	0	0	0	27	25	0	0	20
New Hampshire	0	0	0	0	0	0	0	130
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	11	3	0	0	8
Middle Atlantic	0	0	0	25	25	0	0	2
New Jersey	0	0	0	25	25	0	0	76
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	8	3	0	16	1
Illinois	0	0	0	52	22	0	0	9
Indiana	0	0	0	14	12	0	0	2
Michigan	0	0	0	29	3	0	0	1
Ohio	0	0	0	97	126	0	0	5
Wisconsin	0	0	0	8	6	0	17	1
West North Central	0	0	0	13	2	0	8	1
Iowa	0	0	0	12	2	0	0	1
Kansas	0	0	0	206	5	0	0	2
Minnesota	0	0	0	53	6	0	0	2
Missouri	0	0	0	58	0	0	0	1
Nebraska	0	0	0	102	36	0	0	4
North Dakota	0	0	0	0	6	0	27	2
South Dakota	0	0	0	0	10	0	0	8
South Atlantic	0	0	0	1	2	0	0	0
Delaware	0	0	0	112	112	0	0	3
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	5	5	0	0	1
Maryland	0	0	0	97	97	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	97	41	0	0	0
Virginia	0	0	0	3	8	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	29	23	0	0	1
Alabama	0	0	0	54	54	0	0	1
Kentucky	0	0	0	35	25	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	170	170	0	0	1
West South Central	0	0	0	22	4	0	0	1
Arkansas	0	0	0	91	91	0	0	2
Louisiana	0	0	0	46	46	0	0	1
Oklahoma	0	0	0	24	5	0	0	2
Texas	0	0	0	71	11	0	0	2
Mountain	0	44	0	7	2	0	13	1
Arizona	0	0	0	10	10	0	0	0
Colorado	0	0	0	78	2	0	0	1
Idaho	0	0	0	0	30	0	0	6
Montana	0	0	0	0	7	0	0	5
Nevada	0	0	0	8	8	0	0	1
New Mexico	0	0	0	13	1	0	0	2
Utah	0	44	0	0	44	0	33	1
Wyoming	0	0	0	0	4	0	0	4
Pacific Contiguous	0	0	0	14	5	0	0	1
California	0	0	0	14	6	0	0	2
Oregon	0	0	0	120	10	0	0	2
Washington	0	0	0	100	7	0	0	1
Pacific Noncontiguous	0	0	0	17	34	0	0	6
Alaska	0	0	0	317	54	0	0	12
Hawaii	0	0	0	17	14	0	0	3
U.S. Total	0	12	0	1	1	0	4	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, December 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	9	0	3	0	0	7
Connecticut	0	34	0	2	0	0	22
Maine	0	2	0	16	0	0	9
Massachusetts	0	7	0	4	0	0	15
New Hampshire	0	6	0	0	0	0	17
Rhode Island	0	110	0	15	0	0	0
Vermont	0	0	0	0	0	0	16
Middle Atlantic	6	8	0	1	0	0	7
New Jersey	0	8	0	3	0	0	0
New York	0	9	0	2	0	0	7
Pennsylvania	6	15	0	1	0	0	9
East North Central	0	38	20	1	8	0	25
Illinois	0	62	0	7	0	0	80
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	70
Ohio	0	47	20	2	23	0	30
Wisconsin	0	0	0	0	0	0	55
West North Central	0	310	0	10	0	0	41
Iowa	0	147	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	321	0	14	0	0	43
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	5	8	0	2	0	0	5
Delaware	0	18	0	13	0	0	0
Florida	0	0	0	4	0	0	0
Georgia	0	37	0	5	0	0	186
Maryland	0	25	0	4	0	0	1
North Carolina	0	77	0	7	0	0	15
South Carolina	0	2	0	12	0	0	51
Virginia	0	4	0	3	0	0	35
West Virginia	7	0	0	21	0	0	22
East South Central	0	1	0	0	0	0	14
Alabama	0	1	0	0	0	0	0
Kentucky	0	0	0	0	0	0	178
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	14
West South Central	0	62	0	1	0	0	12
Arkansas	0	0	0	0	0	0	44
Louisiana	0	0	0	1	0	0	13
Oklahoma	0	0	0	0	0	0	0
Texas	0	65	0	1	0	0	0
Mountain	7	3	0	3	0	0	24
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	13	0	0	56
Idaho	0	0	0	25	0	0	30
Montana	8	10	0	8	0	0	61
Nevada	0	0	0	0	0	0	227
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	71	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	0	11	0	1	0	0	35
California	0	0	0	1	0	0	52
Oregon	0	0	0	1	0	0	49
Washington	0	14	0	6	0	0	52
Pacific Noncontiguous	40	0	0	0	0	0	0
Alaska	40	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	6	12	1	5	0	5

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

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

Independent Power Producers by Census Division and State, December 2022 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	5	4	0	0	1
Connecticut	0	0	0	13	10	0	0	1
Maine	0	0	0	14	5	0	0	5
Massachusetts	0	0	0	7	5	0	0	3
New Hampshire	0	0	0	142	12	0	0	2
Rhode Island	0	0	0	15	8	0	0	14
Vermont	0	0	0	25	14	0	0	11
Middle Atlantic	0	0	0	5	3	0	0	1
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	7	4	0	0	1
Pennsylvania	0	0	0	18	6	0	0	1
East North Central	0	0	0	4	2	0	12	1
Illinois	0	0	0	6	2	0	0	1
Indiana	0	0	0	9	3	0	0	1
Michigan	0	0	0	11	5	0	17	1
Ohio	0	0	0	6	1	0	0	1
Wisconsin	0	0	0	17	6	0	0	1
West North Central	0	0	0	6	1	0	0	1
Iowa	0	0	0	9	2	0	0	2
Kansas	0	0	0	24	2	0	0	2
Minnesota	0	0	0	7	4	0	0	5
Missouri	0	0	0	27	2	0	0	1
Nebraska	0	0	0	38	2	0	0	2
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	200	2	0	0	2
South Atlantic	0	0	0	1	1	0	0	1
Delaware	0	0	0	19	24	0	0	10
District of Columbia	0	0	0	64	64	0	0	64
Florida	0	0	0	4	2	0	0	3
Georgia	0	0	0	2	2	0	0	3
Maryland	0	0	0	8	3	0	0	1
North Carolina	0	0	0	2	2	0	0	4
South Carolina	0	0	0	4	5	0	0	5
Virginia	0	0	0	4	5	0	0	2
West Virginia	0	0	0	0	0	0	0	6
East South Central	0	0	0	2	5	0	0	0
Alabama	0	0	0	3	5	0	0	0
Kentucky	0	0	0	5	16	0	0	5
Mississippi	0	0	0	3	4	0	0	0
Tennessee	0	0	0	6	11	0	0	10
West South Central	0	0	0	0	1	0	0	1
Arkansas	0	0	0	3	7	0	0	1
Louisiana	0	0	0	0	14	0	0	2
Oklahoma	0	0	0	201	2	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	0	13	0	1	1	0	0	2
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	3	2	0	0	3
Idaho	0	61	0	9	9	0	0	10
Montana	0	0	0	0	2	0	0	6
Nevada	0	13	0	1	7	0	0	5
New Mexico	0	0	0	4	1	0	0	1
Utah	0	38	0	2	5	0	0	4
Wyoming	0	0	0	0	3	0	0	3
Pacific Contiguous	0	7	0	1	2	0	0	1
California	0	7	0	1	2	0	0	1
Oregon	0	40	0	7	5	0	0	2
Washington	0	0	0	9	7	0	0	3
Pacific Noncontiguous	0	44	0	5	14	0	0	6
Alaska	0	0	0	0	76	0	0	35
Hawaii	0	44	0	5	14	0	0	6
U.S. Total	0	8	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 December 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	9	0	3	0	0	7
Connecticut	0	34	0	2	0	0	22
Maine	0	2	0	16	0	0	9
Massachusetts	0	7	0	4	0	0	15
New Hampshire	0	6	0	0	0	0	17
Rhode Island	0	110	0	15	0	0	0
Vermont	0	0	0	0	0	0	16
Middle Atlantic	6	8	0	1	0	0	7
New Jersey	0	8	0	3	0	0	0
New York	0	9	0	2	0	0	7
Pennsylvania	6	15	0	1	0	0	9
East North Central	0	38	20	1	8	0	25
Illinois	0	62	0	7	0	0	80
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	70
Ohio	0	47	20	2	23	0	30
Wisconsin	0	0	0	0	0	0	55
West North Central	0	310	0	10	0	0	41
Iowa	0	147	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	321	0	14	0	0	43
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	5	8	0	2	0	0	5
Delaware	0	18	0	13	0	0	0
Florida	0	0	0	4	0	0	0
Georgia	0	37	0	5	0	0	186
Maryland	0	25	0	4	0	0	1
North Carolina	0	77	0	7	0	0	15
South Carolina	0	2	0	12	0	0	51
Virginia	0	4	0	3	0	0	35
West Virginia	7	0	0	21	0	0	22
East South Central	0	1	0	0	0	0	14
Alabama	0	1	0	0	0	0	0
Kentucky	0	0	0	0	0	0	178
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	14
West South Central	0	62	0	1	0	0	12
Arkansas	0	0	0	0	0	0	44
Louisiana	0	0	0	1	0	0	13
Oklahoma	0	0	0	0	0	0	0
Texas	0	65	0	1	0	0	0
Mountain	7	3	0	3	0	0	24
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	13	0	0	56
Idaho	0	0	0	25	0	0	30
Montana	8	10	0	8	0	0	61
Nevada	0	0	0	0	0	0	227
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	71	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	0	11	0	1	0	0	35
California	0	0	0	1	0	0	52
Oregon	0	0	0	1	0	0	49
Washington	0	14	0	6	0	0	52
Pacific Noncontiguous	40	0	0	0	0	0	0
Alaska	40	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	6	12	1	5	0	5

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

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

Independent Power Producers by Census Division and State, Year-to-Date through December 2022 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	5	4	0	0	1
Connecticut	0	0	0	13	10	0	0	1
Maine	0	0	0	14	5	0	0	5
Massachusetts	0	0	0	7	5	0	0	3
New Hampshire	0	0	0	142	12	0	0	2
Rhode Island	0	0	0	15	8	0	0	14
Vermont	0	0	0	25	14	0	0	11
Middle Atlantic	0	0	0	5	3	0	0	1
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	7	4	0	0	1
Pennsylvania	0	0	0	18	6	0	0	1
East North Central	0	0	0	4	2	0	12	1
Illinois	0	0	0	6	2	0	0	1
Indiana	0	0	0	9	3	0	0	1
Michigan	0	0	0	11	5	0	17	1
Ohio	0	0	0	6	1	0	0	1
Wisconsin	0	0	0	17	6	0	0	1
West North Central	0	0	0	6	1	0	0	1
Iowa	0	0	0	9	2	0	0	2
Kansas	0	0	0	24	2	0	0	2
Minnesota	0	0	0	7	4	0	0	5
Missouri	0	0	0	27	2	0	0	1
Nebraska	0	0	0	38	2	0	0	2
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	200	2	0	0	2
South Atlantic	0	0	0	1	1	0	0	1
Delaware	0	0	0	19	24	0	0	10
District of Columbia	0	0	0	64	64	0	0	64
Florida	0	0	0	4	2	0	0	3
Georgia	0	0	0	2	2	0	0	3
Maryland	0	0	0	8	3	0	0	1
North Carolina	0	0	0	2	2	0	0	4
South Carolina	0	0	0	4	5	0	0	5
Virginia	0	0	0	4	5	0	0	2
West Virginia	0	0	0	0	0	0	0	6
East South Central	0	0	0	2	5	0	0	0
Alabama	0	0	0	3	5	0	0	0
Kentucky	0	0	0	5	16	0	0	5
Mississippi	0	0	0	3	4	0	0	0
Tennessee	0	0	0	6	11	0	0	10
West South Central	0	0	0	0	1	0	0	1
Arkansas	0	0	0	3	7	0	0	1
Louisiana	0	0	0	0	14	0	0	2
Oklahoma	0	0	0	201	2	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	0	13	0	1	1	0	0	2
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	3	2	0	0	3
Idaho	0	61	0	9	9	0	0	10
Montana	0	0	0	0	2	0	0	6
Nevada	0	13	0	1	7	0	0	5
New Mexico	0	0	0	4	1	0	0	1
Utah	0	38	0	2	5	0	0	4
Wyoming	0	0	0	0	3	0	0	3
Pacific Contiguous	0	7	0	1	2	0	0	1
California	0	7	0	1	2	0	0	1
Oregon	0	40	0	7	5	0	0	2
Washington	0	0	0	9	7	0	0	3
Pacific Noncontiguous	0	44	0	5	14	0	0	6
Alaska	0	0	0	0	76	0	0	35
Hawaii	0	44	0	5	14	0	0	6
U.S. Total	0	8	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, December 2022**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	126	0	12	0	0	0
Connecticut	0	442	0	21	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	229	0	19	0	0	0
New Hampshire	0	2	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	551	0	11	0	0	0
New Jersey	0	414	0	19	0	0	0
New York	0	884	0	19	0	0	0
Pennsylvania	0	0	0	4	0	0	0
East North Central	0	12	0	6	0	0	311
Illinois	0	2,339	0	20	0	0	0
Indiana	0	0	0	0	0	0	311
Michigan	0	32	0	5	0	0	0
Ohio	0	0	0	3	0	0	0
Wisconsin	0	28	0	7	0	0	0
West North Central	0	26	0	0	0	0	0
Iowa	0	0	0	0	0	0	0
Minnesota	0	58	0	0	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	3,559	0	0	0	0	0
South Atlantic	0	66	0	17	0	0	0
District of Columbia	0	3,020	0	47	0	0	0
Florida	0	0	0	75	0	0	0
Georgia	0	20	0	0	0	0	0
Maryland	0	7,801	0	5	0	0	0
North Carolina	0	2,812	0	54	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	21	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	21	0	0	0
West South Central	0	417	0	29	0	0	508
Arkansas	0	0	0	127	0	0	0
Louisiana	0	0	0	35	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	417	0	38	0	0	508
Mountain	0	91	0	16	0	0	97
Arizona	0	2,855	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	52	0	0	0
Utah	0	0	0	20	0	0	110
Pacific Contiguous	0	103	0	4	0	0	681
California	0	67	0	4	0	0	681
Oregon	0	540	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	34	12	0	0	0	0	46
Alaska	34	31	0	0	0	0	46
Hawaii	0	0	0	0	0	0	0
U.S. Total	15	72	0	4	0	0	39

Displayed values of zero may 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, December 2022 (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	84	8	0	0	13
Connecticut	0	0	0	132	132	0	0	23
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	109	21	0	0	22
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	20	4	0	3	7
New Jersey	0	0	0	21	7	0	0	8
New York	0	0	0	74	6	0	7	14
Pennsylvania	0	0	0	111	6	0	0	2
East North Central	0	0	0	76	20	0	0	6
Illinois	0	0	0	201	181	0	0	19
Indiana	0	0	0	188	19	0	0	14
Michigan	0	0	0	361	2	0	0	5
Ohio	0	0	0	115	25	0	0	3
Wisconsin	0	0	0	136	38	0	0	16
West North Central	0	0	0	0	15	0	44	5
Iowa	0	0	0	0	19	0	0	2
Kansas	0	0	0	0	140	0	0	140
Minnesota	0	0	0	0	22	0	44	12
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	3,559
South Atlantic	0	0	0	23	4	0	0	8
Delaware	0	0	0	157	37	0	0	37
District of Columbia	0	0	0	0	0	0	0	29
Florida	0	0	0	84	2	0	0	11
Georgia	0	0	0	161	161	0	0	45
Maryland	0	0	0	61	32	0	0	8
North Carolina	0	0	0	26	26	0	0	35
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	204	6	0	0	2
East South Central	0	0	0	123	123	0	0	21
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	123	123	0	0	21
West South Central	0	0	0	22	33	0	0	27
Arkansas	0	0	0	0	0	0	0	104
Louisiana	0	0	0	0	0	0	0	35
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	119	42	0	0	35
Mountain	0	0	0	30	2	0	0	6
Arizona	0	0	0	64	64	0	0	9
Colorado	0	0	0	79	79	0	0	45
Idaho	0	0	0	0	25	0	0	10
Nevada	0	0	0	38	1	0	0	1
New Mexico	0	0	0	0	352	0	0	52
Utah	0	0	0	0	0	0	0	29
Pacific Contiguous	0	0	0	21	5	0	0	3
California	0	0	0	21	5	0	0	4
Oregon	0	0	0	0	22	0	0	10
Washington	0	0	0	0	48	0	0	46
Pacific Noncontiguous	0	0	0	161	3	0	0	14
Alaska	0	0	0	0	0	0	0	27
Hawaii	0	0	0	161	4	0	0	2
U.S. Total	0	0	0	11	2	0	2	3

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

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

Commercial Sector by Census Division and State, Year-to-Date through December 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	126	0	12	0	0	0
Connecticut	0	442	0	21	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	229	0	19	0	0	0
New Hampshire	0	2	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	551	0	11	0	0	0
New Jersey	0	414	0	19	0	0	0
New York	0	884	0	19	0	0	0
Pennsylvania	0	0	0	4	0	0	0
East North Central	0	12	0	6	0	0	311
Illinois	0	2,339	0	20	0	0	0
Indiana	0	0	0	0	0	0	311
Michigan	0	32	0	5	0	0	0
Ohio	0	0	0	3	0	0	0
Wisconsin	0	28	0	7	0	0	0
West North Central	0	26	0	0	0	0	0
Iowa	0	0	0	0	0	0	0
Minnesota	0	58	0	0	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	3,559	0	0	0	0	0
South Atlantic	0	66	0	17	0	0	0
District of Columbia	0	3,020	0	47	0	0	0
Florida	0	0	0	75	0	0	0
Georgia	0	20	0	0	0	0	0
Maryland	0	7,801	0	5	0	0	0
North Carolina	0	2,812	0	54	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	21	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	21	0	0	0
West South Central	0	417	0	29	0	0	508
Arkansas	0	0	0	127	0	0	0
Louisiana	0	0	0	35	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	417	0	38	0	0	508
Mountain	0	91	0	16	0	0	97
Arizona	0	2,855	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	52	0	0	0
Utah	0	0	0	20	0	0	110
Pacific Contiguous	0	103	0	4	0	0	681
California	0	67	0	4	0	0	681
Oregon	0	540	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	34	12	0	0	0	0	46
Alaska	34	31	0	0	0	0	46
Hawaii	0	0	0	0	0	0	0
U.S. Total	15	72	0	4	0	0	39

Displayed values of zero may 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 December 2022 (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	84	8	0	0	13
Connecticut	0	0	0	132	132	0	0	23
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	109	21	0	0	22
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	20	4	0	3	7
New Jersey	0	0	0	21	7	0	0	8
New York	0	0	0	74	6	0	7	14
Pennsylvania	0	0	0	111	6	0	0	2
East North Central	0	0	0	76	20	0	0	6
Illinois	0	0	0	201	181	0	0	19
Indiana	0	0	0	188	19	0	0	14
Michigan	0	0	0	361	2	0	0	5
Ohio	0	0	0	115	25	0	0	3
Wisconsin	0	0	0	136	38	0	0	16
West North Central	0	0	0	0	15	0	44	5
Iowa	0	0	0	0	19	0	0	2
Kansas	0	0	0	0	140	0	0	140
Minnesota	0	0	0	0	22	0	44	12
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	3,559
South Atlantic	0	0	0	23	4	0	0	8
Delaware	0	0	0	157	37	0	0	37
District of Columbia	0	0	0	0	0	0	0	29
Florida	0	0	0	84	2	0	0	11
Georgia	0	0	0	161	161	0	0	45
Maryland	0	0	0	61	32	0	0	8
North Carolina	0	0	0	26	26	0	0	35
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	204	6	0	0	2
East South Central	0	0	0	123	123	0	0	21
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	123	123	0	0	21
West South Central	0	0	0	22	33	0	0	27
Arkansas	0	0	0	0	0	0	0	104
Louisiana	0	0	0	0	0	0	0	35
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	119	42	0	0	35
Mountain	0	0	0	30	2	0	0	6
Arizona	0	0	0	64	64	0	0	9
Colorado	0	0	0	79	79	0	0	45
Idaho	0	0	0	0	25	0	0	10
Nevada	0	0	0	38	1	0	0	1
New Mexico	0	0	0	0	352	0	0	52
Utah	0	0	0	0	0	0	0	29
Pacific Contiguous	0	0	0	21	5	0	0	3
California	0	0	0	21	5	0	0	4
Oregon	0	0	0	0	22	0	0	10
Washington	0	0	0	0	48	0	0	46
Pacific Noncontiguous	0	0	0	161	3	0	0	14
Alaska	0	0	0	0	0	0	0	27
Hawaii	0	0	0	161	4	0	0	2
U.S. Total	0	0	0	11	2	0	2	3

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

**Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:
Industrial Sector by Census Division and State, December 2022**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	102	0	10	0	0	48
Connecticut	0	435	0	11	0	0	0
Maine	0	114	0	21	0	0	48
Massachusetts	0	13	0	16	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	459	0	33	0	0	0
Middle Atlantic	0	109	0	4	21	0	18
New Jersey	0	0	0	8	0	0	0
New York	0	3	0	5	0	0	18
Pennsylvania	0	1,009	0	6	26	0	0
East North Central	5	27	0	5	10	0	29
Illinois	5	0	0	18	0	0	0
Indiana	0	46	0	7	13	0	0
Michigan	0	0	0	10	0	0	161
Ohio	0	0	0	17	0	0	0
Wisconsin	41	102	0	10	0	0	28
West North Central	4	14	0	6	0	0	0
Iowa	2	892	0	11	0	0	0
Kansas	0	0	0	10	0	0	0
Minnesota	45	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	56	0	0	0	0	0	0
South Dakota	0	0	0	61	0	0	0
South Atlantic	49	48	41	6	0	0	19
Delaware	0	0	0	0	0	0	0
Florida	147	164	0	20	0	0	0
Georgia	109	84	41	13	0	0	61
Maryland	0	0	0	0	0	0	0
North Carolina	17	154	0	5	0	0	492
South Carolina	0	0	0	8	0	0	0
Virginia	0	16	0	8	0	0	0
West Virginia	0	0	0	0	0	0	19
East South Central	26	61	0	9	0	0	0
Alabama	237	408	0	16	0	0	0
Kentucky	0	0	0	10	0	0	0
Mississippi	0	0	0	23	0	0	0
Tennessee	0	0	0	7	0	0	0
West South Central	0	89	0	2	6	0	0
Arkansas	0	1,679	0	31	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	36	0	2	7	0	0
Mountain	20	0	0	3	6	0	0
Colorado	0	0	0	0	0	0	0
Idaho	166	0	0	24	0	0	0
Montana	107	0	0	30	542	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	20	0	0	4	6	0	0
Pacific Contiguous	0	1	0	2	0	0	0
California	0	0	0	2	0	0	0
Oregon	0	0	0	19	0	0	0
Washington	0	45	0	3	0	0	0
Pacific Noncontiguous	0	7	0	0	0	0	59
Alaska	0	37	0	0	0	0	0
Hawaii	0	0	0	0	0	0	59
U.S. Total	6	8	16	1	5	0	13

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

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

Industrial Sector by Census Division and State, December 2022 (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	104	5	0	0	6
Connecticut	0	0	0	167	167	0	0	11
Maine	0	0	0	0	5	0	0	8
Massachusetts	0	0	0	97	191	0	0	16
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	36
Middle Atlantic	0	0	0	61	6	0	0	4
New Jersey	0	0	0	118	118	0	0	7
New York	0	0	0	102	14	0	0	5
Pennsylvania	0	0	0	97	7	0	0	6
East North Central	0	0	0	0	6	0	0	3
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	22	0	0	7
Michigan	0	0	0	0	7	0	0	6
Ohio	0	0	0	0	19	0	0	11
Wisconsin	0	0	0	0	6	0	0	7
West North Central	0	0	0	0	3	0	0	3
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	270	0	0	12
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	76	0	0	38
South Dakota	0	0	0	0	56	0	0	43
South Atlantic	0	0	0	102	2	0	1	3
Delaware	0	0	0	0	51	0	0	0
Florida	0	0	0	145	5	0	1	7
Georgia	0	0	0	0	4	0	0	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
South Carolina	0	0	0	143	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	9
East South Central	0	0	0	0	3	0	192	4
Alabama	0	0	0	0	3	0	0	6
Kentucky	0	0	0	0	16	0	0	9
Mississippi	0	0	0	0	3	0	0	8
Tennessee	0	0	0	0	7	0	192	4
West South Central	0	0	0	103	4	0	2	1
Arkansas	0	0	0	152	7	0	0	9
Louisiana	0	0	0	0	5	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	128	9	0	6	2
Mountain	0	0	0	58	3	0	0	3
Arizona	0	0	0	80	80	0	0	80
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	165	1	0	0	7
Montana	0	0	0	0	0	0	0	34
Nevada	0	0	0	80	80	0	0	1
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	6
Pacific Contiguous	0	0	0	26	5	0	4	2
California	0	0	0	26	9	0	4	2
Oregon	0	0	0	0	10	0	0	9
Washington	0	0	0	0	7	0	0	4
Pacific Noncontiguous	0	0	0	0	0	0	0	13
Alaska	0	0	0	0	0	0	0	13
Hawaii	0	0	0	0	0	0	0	18
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 December 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	102	0	10	0	0	48
Connecticut	0	435	0	11	0	0	0
Maine	0	114	0	21	0	0	48
Massachusetts	0	13	0	16	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	459	0	33	0	0	0
Middle Atlantic	0	109	0	4	21	0	18
New Jersey	0	0	0	8	0	0	0
New York	0	3	0	5	0	0	18
Pennsylvania	0	1,009	0	6	26	0	0
East North Central	5	27	0	5	10	0	29
Illinois	5	0	0	18	0	0	0
Indiana	0	46	0	7	13	0	0
Michigan	0	0	0	10	0	0	161
Ohio	0	0	0	17	0	0	0
Wisconsin	41	102	0	10	0	0	28
West North Central	4	14	0	6	0	0	0
Iowa	2	892	0	11	0	0	0
Kansas	0	0	0	10	0	0	0
Minnesota	45	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	56	0	0	0	0	0	0
South Dakota	0	0	0	61	0	0	0
South Atlantic	49	48	41	6	0	0	19
Delaware	0	0	0	0	0	0	0
Florida	147	164	0	20	0	0	0
Georgia	109	84	41	13	0	0	61
Maryland	0	0	0	0	0	0	0
North Carolina	17	154	0	5	0	0	492
South Carolina	0	0	0	8	0	0	0
Virginia	0	16	0	8	0	0	0
West Virginia	0	0	0	0	0	0	19
East South Central	26	61	0	9	0	0	0
Alabama	237	408	0	16	0	0	0
Kentucky	0	0	0	10	0	0	0
Mississippi	0	0	0	23	0	0	0
Tennessee	0	0	0	7	0	0	0
West South Central	0	89	0	2	6	0	0
Arkansas	0	1,679	0	31	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	36	0	2	7	0	0
Mountain	20	0	0	3	6	0	0
Colorado	0	0	0	0	0	0	0
Idaho	166	0	0	24	0	0	0
Montana	107	0	0	30	542	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	20	0	0	4	6	0	0
Pacific Contiguous	0	1	0	2	0	0	0
California	0	0	0	2	0	0	0
Oregon	0	0	0	19	0	0	0
Washington	0	45	0	3	0	0	0
Pacific Noncontiguous	0	7	0	0	0	0	59
Alaska	0	37	0	0	0	0	0
Hawaii	0	0	0	0	0	0	59
U.S. Total	6	8	16	1	5	0	13

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

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

Industrial Sector by Census Division and State, Year-to-Date through December 2022 (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	104	5	0	0	6
Connecticut	0	0	0	167	167	0	0	11
Maine	0	0	0	0	5	0	0	8
Massachusetts	0	0	0	97	191	0	0	16
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	36
Middle Atlantic	0	0	0	61	6	0	0	4
New Jersey	0	0	0	118	118	0	0	7
New York	0	0	0	102	14	0	0	5
Pennsylvania	0	0	0	97	7	0	0	6
East North Central	0	0	0	0	6	0	0	3
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	22	0	0	7
Michigan	0	0	0	0	7	0	0	6
Ohio	0	0	0	0	19	0	0	11
Wisconsin	0	0	0	0	6	0	0	7
West North Central	0	0	0	0	3	0	0	3
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	270	0	0	12
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	76	0	0	38
South Dakota	0	0	0	0	56	0	0	43
South Atlantic	0	0	0	102	2	0	1	3
Delaware	0	0	0	0	51	0	0	0
Florida	0	0	0	145	5	0	1	7
Georgia	0	0	0	0	4	0	0	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
South Carolina	0	0	0	143	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	9
East South Central	0	0	0	0	3	0	192	4
Alabama	0	0	0	0	3	0	0	6
Kentucky	0	0	0	0	16	0	0	9
Mississippi	0	0	0	0	3	0	0	8
Tennessee	0	0	0	0	7	0	192	4
West South Central	0	0	0	103	4	0	2	1
Arkansas	0	0	0	152	7	0	0	9
Louisiana	0	0	0	0	5	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	128	9	0	6	2
Mountain	0	0	0	58	3	0	0	3
Arizona	0	0	0	80	80	0	0	80
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	165	1	0	0	7
Montana	0	0	0	0	0	0	0	34
Nevada	0	0	0	80	80	0	0	1
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	6
Pacific Contiguous	0	0	0	26	5	0	4	2
California	0	0	0	26	9	0	4	2
Oregon	0	0	0	0	10	0	0	9
Washington	0	0	0	0	7	0	0	4
Pacific Noncontiguous	0	0	0	0	0	0	0	13
Alaska	0	0	0	0	0	0	0	13
Hawaii	0	0	0	0	0	0	0	18
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, December 2022**

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

by End-Use Sector, Census Division, and State, Year-to-Date through December 2022

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	1	1	0
Connecticut	0	0	1	2	0
Maine	1	0	0	0	0
Massachusetts	1	0	2	0	0
New Hampshire	1	1	1	0	0
Rhode Island	0	0	0	0	0
Vermont	3	3	3	0	2
Middle Atlantic	0	0	0	0	0
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	0	0	0
East North Central	0	0	0	0	0
Illinois	1	0	0	0	0
Indiana	1	1	1	0	1
Michigan	0	0	1	0	0
Ohio	0	0	0	0	0
Wisconsin	0	0	2	0	1
West North Central	1	0	1	0	0
Iowa	0	1	2	0	1
Kansas	3	1	3	0	1
Minnesota	0	0	3	0	1
Missouri	1	1	2	0	1
Nebraska	0	1	3	0	1
North Dakota	0	0	2	0	1
South Dakota	1	1	5	0	1
South Atlantic	1	0	1	0	0
Delaware	1	1	3	0	1
District of Columbia	0	0	0	0	0
Florida	1	0	2	0	1
Georgia	2	0	2	0	1
Maryland	0	0	1	1	0
North Carolina	1	0	1	0	1
South Carolina	2	0	1	0	1
Virginia	1	0	2	0	0
West Virginia	0	1	0	0	0
East South Central	1	1	1	0	0
Alabama	2	0	1	0	1
Kentucky	2	2	1	0	1
Mississippi	3	1	2	0	1
Tennessee	1	1	2	0	1
West South Central	2	1	1	0	1
Arkansas	2	1	2	0	1
Louisiana	2	0	1	0	1
Oklahoma	2	0	2	0	1
Texas	2	2	1	0	1
Mountain	0	0	0	0	0
Arizona	0	0	1	0	0
Colorado	1	1	1	0	1
Idaho	0	0	1	0	1
Montana	1	1	2	0	1
Nevada	0	0	0	0	0
New Mexico	2	1	1	0	1
Utah	1	1	1	0	1
Wyoming	1	0	2	0	1
Pacific Contiguous	0	0	1	0	0
California	1	0	0	0	0
Oregon	0	0	3	0	1
Washington	0	0	3	0	1
Pacific Noncontiguous	0	0	2	0	1
Alaska	1	1	6	0	1
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.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, December 2022

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

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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 December 2022

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

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**Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers
by End-Use Sector, Census Division, and State, December 2022**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	1	0	1	0	0
Connecticut	2	1	3	0	1
Maine	1	1	0	0	1
Massachusetts	1	0	3	0	1
New Hampshire	1	0	2	0	0
Rhode Island	1	0	0	0	0
Vermont	2	1	5	0	2
Middle Atlantic	0	0	0	0	0
New Jersey	1	1	1	0	1
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	0	0	1	0	0
Illinois	1	0	1	0	0
Indiana	1	0	2	0	1
Michigan	0	0	1	0	0
Ohio	1	1	1	0	0
Wisconsin	1	1	2	0	1
West North Central	1	1	1	0	0
Iowa	1	2	2	0	1
Kansas	2	2	5	0	2
Minnesota	1	1	2	0	1
Missouri	1	1	4	0	1
Nebraska	1	2	3	0	1
North Dakota	1	1	2	0	1
South Dakota	1	2	5	0	1
South Atlantic	1	0	1	0	0
Delaware	1	0	4	0	1
District of Columbia	7	0	0	0	1
Florida	1	1	5	0	1
Georgia	2	1	3	0	1
Maryland	1	0	2	0	0
North Carolina	1	1	3	0	1
South Carolina	2	2	2	0	1
Virginia	1	0	3	0	1
West Virginia	0	0	0	0	0
East South Central	1	1	1	0	1
Alabama	2	2	2	0	1
Kentucky	1	1	2	0	1
Mississippi	3	3	4	0	2
Tennessee	1	1	3	0	1
West South Central	1	2	1	0	1
Arkansas	2	3	3	0	1
Louisiana	2	1	2	0	1
Oklahoma	2	2	3	0	1
Texas	1	3	1	0	1
Mountain	1	1	1	0	0
Arizona	1	1	1	0	1
Colorado	2	1	2	0	1
Idaho	1	1	2	0	1
Montana	1	1	2	0	1
Nevada	1	2	0	0	1
New Mexico	3	2	2	0	1
Utah	2	2	1	0	1
Wyoming	1	2	1	0	1
Pacific Contiguous	0	0	1	0	0
California	1	0	0	0	0
Oregon	1	1	3	0	1
Washington	0	1	3	0	1
Pacific Noncontiguous	1	1	2	0	1
Alaska	2	3	6	0	2
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 December 2022

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	1	0	0
Connecticut	1	1	1	1	0
Maine	1	1	0	0	0
Massachusetts	1	0	2	0	0
New Hampshire	1	1	1	0	0
Rhode Island	0	0	0	0	0
Vermont	3	4	4	0	2
Middle Atlantic	0	0	0	0	0
New Jersey	1	1	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	0	0	1	0	0
Illinois	1	1	0	0	0
Indiana	2	2	1	0	1
Michigan	0	0	1	0	0
Ohio	1	1	1	0	0
Wisconsin	0	0	2	0	1
West North Central	1	1	1	0	0
Iowa	0	1	2	0	1
Kansas	3	1	4	0	2
Minnesota	0	0	3	0	1
Missouri	2	2	3	0	1
Nebraska	0	1	3	0	1
North Dakota	0	0	2	0	1
South Dakota	0	1	5	0	1
South Atlantic	1	0	1	0	0
Delaware	2	1	4	0	1
District of Columbia	1	0	0	0	0
Florida	1	1	4	0	1
Georgia	2	1	2	0	1
Maryland	1	0	1	1	0
North Carolina	2	1	2	0	1
South Carolina	3	1	2	0	1
Virginia	1	0	3	0	1
West Virginia	0	1	0	0	0
East South Central	1	1	1	0	1
Alabama	2	1	2	0	1
Kentucky	2	2	2	0	1
Mississippi	4	2	3	0	2
Tennessee	1	2	2	0	1
West South Central	2	2	1	0	1
Arkansas	3	2	3	0	2
Louisiana	2	1	1	0	1
Oklahoma	3	1	3	0	1
Texas	3	3	1	0	1
Mountain	0	0	1	0	0
Arizona	0	0	1	0	0
Colorado	1	1	2	0	1
Idaho	0	0	1	0	1
Montana	0	1	2	0	1
Nevada	0	1	0	0	0
New Mexico	2	1	2	0	1
Utah	2	1	1	0	1
Wyoming	0	1	2	0	1
Pacific Contiguous	0	0	1	0	0
California	0	0	0	0	0
Oregon	0	0	3	0	1
Washington	0	0	3	0	1
Pacific Noncontiguous	0	1	2	0	1
Alaska	1	2	6	0	1
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 B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	1	01/02/2022 1:21 PM	01/02/2022 5:38 PM	4 Hours, 17 Minutes	Pacific Gas & Electric Co	WECC	California: Tuolumne County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	3	1706
2022	1	01/03/2022 1:00 AM	01/03/2022 2:00 PM	13 Hours, 0 Minutes	Southern Company	SERC	Georgia: Alabama: Mississippi;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	283	40885
2022	1	01/03/2022 5:00 AM	01/04/2022 6:00 PM	37 Hours, 0 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	60424
2022	1	01/03/2022 5:30 AM	01/04/2022 12:30 PM	31 Hours, 0 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	142000
2022	1	01/05/2022 12:32 PM	01/05/2022 12:45 PM	0 Hours, 13 Minutes	Eversource Energy Company (NSTAR)	NPCC	Massachusetts: Plymouth 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
2022	1	01/08/2022 2:56 AM	01/08/2022 3:03 AM	0 Hours, 7 Minutes	American Electric Power - Texas	TRE	Texas: Cameron County, Willacy 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
2022	1	01/09/2022 6:08 PM		. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: Adams 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	Unknown	Unknown
2022	1	01/14/2022 8:34 AM	01/14/2022 8:42 AM	0 Hours, 8 Minutes	Southwestern Public Service	TRE/WEC C	Texas: Potter County; New Mexico;	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
2022	1	01/16/2022 5:15 AM	01/17/2022 12:06 AM	18 Hours, 51 Minutes	Southern Company	SERC	Georgia: Alabama;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	436	61113
2022	1	01/16/2022 12:05 PM	01/17/2022 8:45 AM	20 Hours, 40 Minutes	Duke Energy Carolinas	SERC	North Carolina: Jackson County; South Carolina: Greenville County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	51289
2022	1	01/16/2022 1:15 PM	01/16/2022 5:15 PM	4 Hours, 0 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	74638
2022	1	01/24/2022 10:27 AM	01/24/2022 10:51 AM	0 Hours, 24 Minutes	Public Utility District #1 of Chelan County (CHPD)	WECC	Washington: Chelan 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
2022	1	01/28/2022 3:41 PM	01/28/2022 9:30 PM	5 Hours, 49 Minutes	Public Service Company of Colorado	WECC	Colorado: Douglas County, Pueblo County, El Paso County, Prowers 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
2022	1	01/29/2022 8:45 AM	01/30/2022 1:00 AM	16 Hours, 15 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Rhode Island: Vermont: Maine;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	120	12000
2022	2	02/01/2022 12:13 PM	02/01/2022 12:25 PM	0 Hours, 12 Minutes	Pacific Gas & Electric Co	WECC	California: Yuba County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	10	8124
2022	2	02/03/2022 10:00 AM	02/07/2022 8:00 PM	106 Hours, 0 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	255000
2022	2	02/03/2022 12:56 PM		. Hours, . Minutes	American Electric Power	RF	Ohio;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	51000
2022	2	02/03/2022 12:56 PM	02/04/2022 8:30 PM	31 Hours, 34 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Ohio;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	51000
2022	2	02/04/2022 1:10 PM		. Hours, . Minutes	Central Hudson Gas & Elec Corp	NPCC	New York: Ulster County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	67404

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	2	02/04/2022 6:21 PM	02/04/2022 10:00 PM	3 Hours, 39 Minutes	ERCOT	TRE	Texas:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	Unknown	Unknown
2022	2	02/18/2022 7:10 AM	02/18/2022 4:25 PM	9 Hours, 15 Minutes	ISO New England	NPCC	Connecticut: Maine; Massachusetts: New Hampshire: Vermont: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	7	7047
2022	2	02/24/2022 10:25 AM	02/24/2022 10:31 AM	0 Hours, 6 Minutes	Entergy - Transmission Operations Engineering	TRE	Texas: Montgomery 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	3	1405
2022	3	03/01/2022 1:43 PM	03/01/2022 1:47 PM	0 Hours, 4 Minutes	Duke Energy Midwest	RF	Indiana: Marion County, Shelby County, Hendricks 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
2022	3	03/05/2022 10:58 PM	03/06/2022 7:38 PM	20 Hours, 40 Minutes	Exelon Corporation / Commonwealth Edison Company (ComEd) NCR08013	SERC/RF	Illinois: DuPage 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
2022	3	03/08/2022 1:50 PM	03/08/2022 2:39 PM	0 Hours, 49 Minutes	Southern Company	TRE	Georgia: Terrell 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	48	5855
2022	3	03/10/2022 8:51 AM	03/10/2022 3:15 PM	6 Hours, 24 Minutes	Western Area Power Administration	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
2022	3	03/12/2022 8:33 AM	.	. Hours, . Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	139	19380
2022	3	03/18/2022 4:32 PM	.	. Hours, . Minutes	Florida Power & Light	SERC	Florida: Palm Beach 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	78	20423
2022	3	03/21/2022 7:00 PM	03/24/2022 12:00 AM	53 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Anderson County, Bell County, Bosque County, Comanche County, Coryell County, Falls County, Freestone County, Hamilton County, Henderson County, Hill County, Lampasas County, Leon County, Limestone County, McLennan County, Milam County, Mills County, Robertson County, Collin County, Cooke County, Dallas County, Denton County, Ellis County, Erath County, Fannin County, Grayson County, Hood C	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	170000
2022	3	03/22/2022 12:06 AM	03/22/2022 4:29 AM	4 Hours, 23 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR01036)	MRO	South 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
2022	3	03/30/2022 3:45 PM	.	. Hours, . Minutes	Entergy Corp	SERC	Louisiana: Mississippi: Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	66448
2022	3	03/31/2022 12:04 AM	03/31/2022 9:20 AM	9 Hours, 16 Minutes	Southern Company	SERC	Georgia: Alabama: Mississippi: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	157	22000
2022	3	03/31/2022 8:59 AM	04/01/2022 7:30 PM	34 Hours, 31 Minutes	Detroit Edison Co	RF	Michigan: Huron County, Tuscola County, St. Clair County, Washtenaw County, Macomb County, Wayne County, Monroe County, Oakland County, Livingston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	60	70000
2022	4	04/05/2022 4:40 AM	04/05/2022 5:21 PM	12 Hours, 41 Minutes	Evergy	SERC/RF	Missouri: Jackson 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	73	16299

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	4	04/10/2022 3:41 PM	04/10/2022 3:50 PM	0 Hours, 9 Minutes	Entergy - Transmission Operations Engineering	SERC	Arkansas: Pulaski County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	5	Unknown
2022	4	04/10/2022 3:41 PM	04/10/2022 3:50 PM	0 Hours, 9 Minutes	Entergy Arkansas Inc	SERC	Arkansas: Pulaski County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	5	Unknown
2022	4	04/11/2022 9:15 AM	04/13/2022 8:00 AM	46 Hours, 45 Minutes	Portland General Electric Co	WECC	Oregon: Multnomah County, Clackamas County, Marion County, Yamhill County, Washington County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	3140	73717
2022	4	04/13/2022 10:04 PM	04/14/2022 12:02 AM	1 Hours, 58 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: Iberia 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).-System Operations	7	2429
2022	4	04/14/2022 5:59 AM	04/14/2022 6:13 AM	0 Hours, 14 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	164	262268
2022	4	04/16/2022 11:08 AM		. Hours, . Minutes	MidAmerican Energy Co	SERC/MRO	Iowa: Polk County; Illinois:	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
2022	4	04/16/2022 5:44 PM		. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	9290	Unknown
2022	4	04/19/2022 4:07 AM		. Hours, . Minutes	New York State Electric & Gas	NPCC	New York: Broome County, Chemung County, Chenango County, Clinton County, Columbia County, Cortland County, Delaware County, Dutchess County, Erie County, Essex County, Greene County, Hamilton County, Herkimer County, Madison County, Oneida County, Otsego County, Putnam County, Saratoga County, Schoharie County, Schuyler County, Steuben County, Sullivan County, Tioga County, Tompkins County, Ulster	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	84033
2022	4	04/19/2022 6:00 AM		. Hours, . Minutes	National Grid	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	97000
2022	4	04/19/2022 8:41 AM	04/19/2022 12:10 PM	3 Hours, 29 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	67754
2022	4	04/22/2022 11:00 PM	04/24/2022 4:00 PM	41 Hours, 0 Minutes	Southwest Power Pool, Inc.	MRO	North Dakota:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Severe Weather	1000	Unknown
2022	4	04/22/2022 11:16 PM	04/24/2022 4:00 PM	40 Hours, 44 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR01036)	WECC/MRO	North Dakota: Mountrail County, Williams County, Ward County, Burke County, Bottineau County, McLean County, Walsh County, Bowman County, Stark County, Dunn County, Mercer County; Montana: Wibaux County, Richland 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	Unknown	Unknown
2022	4	04/23/2022 3:38 PM	04/24/2022 4:00 AM	12 Hours, 22 Minutes	Mountrail-Williams Elec Coop	MRO	North Dakota: Mountrail County, Williams County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Severe Weather	480	18430
2022	4	04/23/2022 7:42 PM	04/24/2022 4:17 PM	20 Hours, 35 Minutes	MidAmerican Energy Co	SERC/MRO	Iowa: Polk County, Warren County; Illinois:	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	43	22400
2022	4	04/28/2022 7:56 AM	04/28/2022 8:48 AM	0 Hours, 52 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	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	74	Unknown

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	5	05/05/2022 1:06 PM	05/05/2022 2:06 PM	1 Hours, 0 Minutes	Entergy - Transmission Operations Engineering	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).-Transmission Interruption	Unknown	0
2022	5	05/11/2022 6:00 PM	05/11/2022 10:42 PM	4 Hours, 42 Minutes	Northern States Power Co	MRO	Minnesota:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	105000
2022	5	05/12/2022 10:44 AM	05/12/2022 1:34 PM	2 Hours, 50 Minutes	Empire District Electric Co	SERC	Missouri: Barry County, Dade County, Lawrence 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	800	0
2022	5	05/12/2022 4:50 PM	05/13/2022 2:48 AM	9 Hours, 58 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR01036)	MRO	South Dakota: Davison 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	Unknown
2022	5	05/15/2022 11:30 PM	05/17/2022 11:45 PM	48 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Ellis County, Grayson County, Henderson County, Hunt County, Kaufman County, Navarro County, Rockwall County, Smith County, Tarrant County, Van Zandt County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	150000
2022	5	05/17/2022 12:10 PM	.	. Hours, . Minutes	Southwestern Public Service	WECC	New Mexico: Roosevelt 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	25	Unknown
2022	5	05/18/2022 5:00 PM	05/31/2022 12:00 PM	307 Hours, 0 Minutes	Public Service Company of New Mexico	WECC	New Mexico: San Juan County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	560	0
2022	5	05/20/2022 5:26 PM	05/20/2022 5:33 PM	0 Hours, 7 Minutes	Consolidated Edison of New York, Inc.	NPCC	New York:	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
2022	5	05/22/2022 2:30 AM	05/22/2022 6:52 PM	16 Hours, 22 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	52172
2022	5	05/29/2022 4:41 PM	05/31/2022 11:29 AM	42 Hours, 48 Minutes	FirstEnergy Corp: Mel-Ed	RF	Pennsylvania: 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	0	0
2022	6	06/04/2022 12:59 PM	06/05/2022 2:15 AM	13 Hours, 16 Minutes	ERCOT	TRE	Texas: Ector County;	Total generation loss, within one minute of: greater than or equal to 2,000 Megawatts in the Eastern or Western Interconnection or greater than or equal to 1,400 Megawatts in the ERCOT Interconnection.-Generation Inadequacy	0	0
2022	6	06/05/2022 3:20 PM	06/05/2022 8:12 PM	4 Hours, 52 Minutes	California ISO	WECC	California:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	Unknown	Unknown
2022	6	06/06/2022 10:21 AM	06/06/2022 10:24 AM	0 Hours, 3 Minutes	Pacific Gas & Electric Co	WECC	California: Shasta County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	13	4000
2022	6	06/08/2022 12:00 AM	06/08/2022 4:00 AM	4 Hours, 0 Minutes	Southwest Power Pool, Inc.	SERC/MRO	Kansas: Missouri; Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62000
2022	6	06/08/2022 1:00 AM	06/08/2022 4:00 AM	3 Hours, 0 Minutes	Southwest Power Pool, Inc.	SERC	Missouri:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Distribution Interruption	Unknown	60000
2022	6	06/08/2022 1:00 AM	06/08/2022 6:00 AM	5 Hours, 0 Minutes	Evergy	SERC/MRO	Missouri: Clay County, Jackson County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	911888
2022	6	06/10/2022 8:45 AM	.	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	13437	445

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	6	06/10/2022 12:08 PM	06/10/2022 9:30 PM	9 Hours, 22 Minutes	El Paso Electric	TRE	Texas: El Paso County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-Actual Physical Attack/Vandalism	0	0
2022	6	06/10/2022 8:20 PM	06/10/2022 8:28 PM	0 Hours, 8 Minutes	California ISO	WECC	California: Kern County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational polic-System Operations	100	Unknown
2022	6	06/10/2022 8:27 PM	06/10/2022 9:30 PM	1 Hours, 3 Minutes	Pacific Gas & Electric Co	WECC	California: Kern County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational polic-System Operations	100	39094
2022	6	06/12/2022 11:30 PM	06/13/2022 11:30 PM	24 Hours, 0 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	SERC/RF	Ohio: West Virginia: Virginia: Indiana;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	14000	100000
2022	6	06/13/2022 6:00 PM	06/14/2022 6:15 PM	24 Hours, 15 Minutes	Duke Energy Midwest	SERC/RF	Ohio: Kentucky;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	162551
2022	6	06/14/2022 1:46 PM		. Hours, . Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Ohio;	Firm load shedding of 100 Megawatts or more implemented under emergency operational polic-System Operations	373	Unknown
2022	6	06/15/2022 9:00 PM		. Hours, . Minutes	WEC Energy Group (WEPCO, WPSC, UMERC, WEP-MIUP)	RF/MRO	Wisconsin: Outagamie County, Waupaca County, Winnebago County, Brown County, Sheboygan County, Ozaukee County, Waukesha County; Michigan: Iron County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	90	57000
2022	6	06/16/2022 4:31 PM	06/16/2022 8:07 PM	3 Hours, 36 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	77908
2022	6	06/17/2022 5:30 PM	06/19/2022 9:15 PM	51 Hours, 45 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	SERC/RF	West Virginia: Virginia: Kentucky;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	150000
2022	6	06/17/2022 5:37 PM	06/18/2022 12:54 AM	7 Hours, 17 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	91056
2022	6	06/17/2022 6:45 PM	06/18/2022 1:32 PM	18 Hours, 47 Minutes	Duke Energy Progress	SERC	North Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	44000
2022	6	06/20/2022 12:54 PM	06/20/2022 2:23 PM	1 Hours, 29 Minutes	Northern States Power Co	MRO	Minnesota: Hennepin 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	15604
2022	6	06/22/2022 4:56 PM	06/23/2022 2:00 AM	9 Hours, 4 Minutes	Dominion Energy VA	SERC/RF	Virginia;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Distribution Interruption	Unknown	100000
2022	6	06/23/2022 10:55 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
2022	6	06/24/2022 11:09 PM	06/25/2022 12:00 AM	0 Hours, 51 Minutes	Entergy Services, Inc.	SERC	Louisiana;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	Unknown	Unknown
2022	6	06/27/2022 2:26 PM	06/28/2022 3:56 AM	13 Hours, 30 Minutes	American Electric Power - Texas	TRE	Texas: Victoria 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	14	2491
2022	7	07/04/2022 6:21 PM		. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Amador County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	3	3001
2022	7	07/06/2022 2:39 PM	07/07/2022 3:54 AM	13 Hours, 15 Minutes	Duke Energy Midwest	RF/SERC	Ohio: Kentucky;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	104700
2022	7	07/09/2022 2:47 AM	07/09/2022 2:59 AM	0 Hours, 12 Minutes	Cleco Power LLC	SERC	Louisiana: Rapides 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).-System Operations	Unknown	4724
2022	7	07/10/2022 9:00 PM	07/11/2022 8:00 PM	23 Hours, 0 Minutes	ERCOT	TRE	Texas;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-System Operations	Unknown	Unknown
2022	7	07/12/2022 4:00 PM		. Hours, . Minutes	Baltimore Gas and Electric	RF	Maryland: Baltimore County, Carroll County, Harford County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	800	165000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	7	07/12/2022 6:00 PM	07/12/2022 10:00 PM	4 Hours, 0 Minutes	Pepco Holdings	RF	District of Columbia: Maryland;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50200
2022	7	07/13/2022 11:30 AM	07/13/2022 9:00 PM	9 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-System Operations	Unknown	Unknown
2022	7	07/18/2022 9:15 AM		. Hours, . Minutes	South Carolina Pub Serv Auth	SERC	South Carolina:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	4500	0
2022	7	07/23/2022 8:45 PM	07/24/2022 11:30 AM	14 Hours, 45 Minutes	Consumers Energy Co	RF	Michigan: Muskegon County, Ottawa County, Kent County, Montcalm County, Ionia County, Allegan County, Van Buren County, Kalamazoo County, Barry County, Mason County, Shiawassee County, Ingham County, Genesee County, Saginaw County, Midland County, Wexford County, Grand Traverse County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	93750
2022	7	07/25/2022 12:38 AM	07/25/2022 1:46 PM	13 Hours, 8 Minutes	FirstEnergy Corp	RF	Pennsylvania: Erie 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
2022	7	07/26/2022 6:38 AM	07/26/2022 12:57 PM	6 Hours, 19 Minutes	LCRA TSC	TRE	Texas: Hays 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
2022	8	08/03/2022 2:30 AM		. Hours, . Minutes	Northern States Power Co	MRO/RF	Minnesota: Wisconsin:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	80000
2022	8	08/03/2022 5:00 PM	08/03/2022 8:30 PM	3 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Allegan County, Van Buren County, Barry County, Kalamazoo County, Calhoun County, Jackson County, Calhoun County, Washtenaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	91264
2022	8	08/03/2022 7:00 PM	08/05/2022 8:53 AM	37 Hours, 53 Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Washtenaw County, St. Clair County, Macomb County, Monroe County, Oakland County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	71000
2022	8	08/04/2022 6:00 PM	08/05/2022 2:00 AM	8 Hours, 0 Minutes	Baltimore Gas & Electric Co	RF	Maryland: Anne Arundel County, Baltimore County, Baltimore, City of[16];	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	75500
2022	8	08/09/2022 4:42 PM	08/09/2022 10:12 PM	5 Hours, 30 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-System Operations	Unknown	62464
2022	8	08/10/2022 1:25 AM	08/10/2022 1:30 AM	0 Hours, 5 Minutes	Entergy - Transmission Operations Engineering	SERC	Arkansas: Lawrence 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	24	0
2022	8	08/10/2022 7:56 PM	08/11/2022 8:00 PM	24 Hours, 4 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	140464
2022	8	08/15/2022 11:43 PM	08/16/2022 7:14 AM	7 Hours, 31 Minutes	Western Area Power Administration - Rocky Mountain Region	WECC/MRO	Wyoming: 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	5000
2022	8	08/22/2022 12:46 PM	08/22/2022 1:09 PM	0 Hours, 23 Minutes	LCRA TSC	TRE	Texas: DeWitt 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	24	6385
2022	8	08/22/2022 8:40 PM	08/22/2022 9:57 PM	1 Hours, 17 Minutes	EI Paso Electric	TRE	Texas: El Paso 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	0	0
2022	8	08/29/2022 3:00 PM	09/01/2022 9:00 AM	66 Hours, 0 Minutes	Consumers Energy Co	RF	Michigan: Ottawa County, Allegan County, Van Buren County, Montcalm County, Kent County, Barry County, Kalamazoo County, St. Joseph County, Branch County, Hillsdale County, Calhoun County, Jackson County, Eaton County, Clinton County, Shiawassee County, Montcalm County, Isabella County, Mecosta County, Midland County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	197740

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	8	08/29/2022 5:50 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2022	9	09/04/2022 4:00 PM	09/06/2022 8:00 AM	40 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Tarrant County, Collin County, Dallas County, Ellis County, Kaufman County, Rockwall County, Williamson County, Denton County, Archer County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	190000
2022	9	09/04/2022 6:50 PM	09/05/2022 2:45 AM	7 Hours, 55 Minutes	Canadian Solar (USA) Energy Corporation	WECC	California: Kings County;	Cyber event that could potentially impact electric power system adequacy or reliability-Cyber Event	0	0
2022	9	09/06/2022 6:00 AM	09/06/2022 6:22 AM	0 Hours, 22 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	9	09/10/2022 10:30 PM	09/10/2022 10:31 PM	0 Hours, 1 Minutes	American Electric Power (Regulated Generation)	RF	Indiana: Spencer County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	Unknown	Unknown
2022	9	09/22/2022 3:58 AM	09/22/2022 4:00 AM	0 Hours, 2 Minutes	Duke Energy Florida	SERC	Florida: Pinellas County, Pasco County, Orange County, Lake County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Vandalism	Unknown	Unknown
2022	9	09/28/2022 3:00 PM		. Hours, . Minutes	Tampa Electric Company	SERC	Florida: Hillsborough County, Polk County, Pasco County, Pinellas County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	750	291361
2022	9	09/28/2022 3:00 PM	10/03/2022 3:53 PM	120 Hours, 53 Minutes	Duke Energy Florida	SERC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	676000
2022	9	09/28/2022 6:00 PM	09/30/2022 3:20 PM	45 Hours, 20 Minutes	Seminole Electric Cooperative Inc	SERC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1000	116937
2022	9	09/29/2022 3:27 AM		. Hours, . Minutes	Lakeland Electric	SERC	Florida: Polk County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	150	15797
2022	9	09/29/2022 4:00 AM	10/03/2022 12:00 AM	92 Hours, 0 Minutes	Orlando Utilities Comm	SERC	Florida: Orange County, Osceola County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	0	0
2022	9	09/30/2022 2:45 AM	10/01/2022 4:15 PM	37 Hours, 30 Minutes	Duke Energy Progress	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	48323
2022	9	09/30/2022 1:46 PM	09/30/2022 6:09 PM	4 Hours, 23 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	108930
2022	9	09/30/2022 6:30 PM	10/01/2022 6:36 PM	24 Hours, 6 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	154100
2022	10	10/08/2022 4:23 PM	10/08/2022 4:50 PM	0 Hours, 27 Minutes	Ravenswood Generating Station	NPCC	New York: Queens County;	Physical threat to its Bulk Electric System control center, excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the control center. Or suspicious device or activity at its Bulk Electric System control center. Suspicious activity	100	0
2022	10	10/14/2022 1:15 PM	10/14/2022 5:45 PM	4 Hours, 30 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: Rhode Island: New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Sever Weather	Unknown	76388
2022	10	10/21/2022 11:15 AM	10/21/2022 11:18 AM	0 Hours, 3 Minutes	Western Area Power Administration - Sierra Nevada Region (114 Parkshore Dr. Folsom, CA. 95630)	WECC	California: Trinity County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious activity	0	0
2022	10	10/25/2022 1:45 AM	10/25/2022 1:50 PM	12 Hours, 5 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-System Operations	Unknown	109865

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	11	11/02/2022 3:11 PM	11/02/2022 3:25 PM	0 Hours, 14 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	11	11/04/2022 8:05 PM	11/07/2022 9:00 AM	60 Hours, 55 Minutes	Puget Sound Energy	WECC	Washington: Island County, King County, Kittitas County, Thurston County, Kitsap County, Pierce County, Skagit County, Whatcom County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	214000
2022	11	11/05/2022 1:00 PM	11/08/2022 7:00 AM	66 Hours, 0 Minutes	Consumers Energy Co	RF	Michigan: Kalamazoo County, Kent County, Calhoun County, Genesee County, Ottawa County, Muskegon County, Eaton County, Saginaw County, Van Buren County, Hillsdale County, Shiawassee County, Jackson County, Lenawee County, Branch County, Montcalm County, Monroe County, Manistee County, Roscommon County, Clinton County, Ingham County, Gladwin County, Arenac County, Ogemaw County, Iosco County, Alcon	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	158450
2022	11	11/05/2022 7:00 PM		. Hours, . Minutes	WEC Energy Group (WEPCO, WPSC, UMER, WEP-MIUP)	MRO/RF	Wisconsin:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2022	11	11/05/2022 7:57 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Oakland County, Wayne County, Monroe County, Lapeer County, St. Clair County, Washtenaw County, Macomb County, Tuscola County, Sanilac County, Huron County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	53000
2022	11	11/10/2022 6:00 AM	11/11/2022 8:47 AM	26 Hours, 47 Minutes	Duke Energy Florida	SERC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160000
2022	11	11/23/2022 7:03 AM	11/23/2022 8:57 AM	1 Hours, 54 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	11	11/23/2022 9:30 AM		. Hours, . Minutes	Exelon Corporation	RF	Maryland: Delaware: New Jersey: Pennsylvania: Illinois: District of Columbia;	Cyber event that could potentially impact electric power system adequacy or reliability-Cyber Event	Unknown	Unknown
2022	11	11/27/2022 5:28 PM	11/27/2022 11:58 PM	6 Hours, 30 Minutes	Exelon/Potomac Electric Power Company (Peppo)	RF	Maryland: Montgomery County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Interruption	190	87500
2022	11	11/30/2022 3:35 AM	11/30/2022 9:10 AM	5 Hours, 35 Minutes	Southern Company	SERC	Alabama: Mississippi: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	386	54110
2022	11	11/30/2022 6:45 PM	12/02/2022 4:00 AM	33 Hours, 15 Minutes	ISO New England	NPCC	Maine: Massachusetts: Connecticut: Rhode Island: Vermont: New Hampshire:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	113	113000
2022	12	12/05/2022 6:20 PM	12/05/2022 6:55 PM	0 Hours, 35 Minutes	Constellation Energy Generation, LLC	RF	Pennsylvania: York County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/06/2022 12:00 AM	12/06/2022 12:01 AM	0 Hours, 1 Minutes	Southern Company	SERC	Georgia: Bartow County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/06/2022 12:00 AM	12/06/2022 12:01 AM	0 Hours, 1 Minutes	Southern Company	SERC	Georgia: Heard County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/06/2022 8:15 AM	12/06/2022 12:15 PM	4 Hours, 0 Minutes	KeyCon Operating, LLC	RF	Pennsylvania:	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	1883	Unknown

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	12	12/06/2022 8:26 AM	12/06/2022 8:30 AM	0 Hours, 4 Minutes	LG&E KU Energy LLC	SERC	Kentucky: Jefferson County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Vandalism	0	0
2022	12	12/06/2022 9:25 AM		. Hours, . Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/06/2022 12:45 PM		. Hours, . Minutes	Lightstone Generation LLC	RF	Ohio;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	2600	Unknown
2022	12	12/07/2022 1:35 PM	12/07/2022 1:40 PM	0 Hours, 5 Minutes	Exelon Corporation / Commonwealth Edison Company (ComEd) NCR08013	SERC/RF	Illinois: Cook County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/07/2022 4:42 PM	12/07/2022 9:00 PM	4 Hours, 18 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/08/2022 12:36 PM		. Hours, . Minutes	Wabash Valley Power	RF	Indiana: Vigo County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/10/2022 11:00 AM	12/12/2022 6:00 AM	43 Hours, 0 Minutes	Associated Electric Cooperative Inc	SERC	Missouri: Greene County, Dunklin County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/14/2022 12:52 PM		. Hours, . Minutes	Montana-Dakota Utilities Co	WECC	Montana: Richland County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	Unknown	Unknown
2022	12	12/16/2022 11:30 PM	12/18/2022 11:21 PM	47 Hours, 51 Minutes	ISO New England	NPCC	Massachusetts: Vermont: New Hampshire: Maine;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	36600
2022	12	12/17/2022 7:45 PM	12/17/2022 7:46 PM	0 Hours, 1 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Kaufman County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/22/2022 9:04 AM	12/25/2022 12:00 AM	62 Hours, 56 Minutes	Tennessee Valley Authority	SERC	Tennessee: Alabama: Mississippi: Kentucky;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Transmission Interruption	3200	Unknown
2022	12	12/23/2022 3:03 AM	12/23/2022 12:30 PM	9 Hours, 27 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	236	33010
2022	12	12/23/2022 5:20 AM		. Hours, . 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	Unknown	500000
2022	12	12/23/2022 6:04 AM	12/23/2022 6:40 AM	0 Hours, 36 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.- Suspicious Activity	0	0
2022	12	12/23/2022 7:30 AM	12/23/2022 10:13 PM	14 Hours, 43 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	108900
2022	12	12/23/2022 8:31 AM		. Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	Unknown	Unknown
2022	12	12/23/2022 9:45 AM	12/23/2022 5:00 PM	7 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	Unknown	66519

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2022

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
2022	12	12/23/2022 2:30 PM		. Hours, . Minutes	National Grid	NPCC	New York	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	57000
2022	12	12/24/2022 4:45 AM	12/24/2022 3:45 PM	11 Hours, 0 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	1000	295000
2022	12	12/24/2022 6:15 AM	12/25/2022 9:00 AM	26 Hours, 45 Minutes	Dominion Energy South Carolina	SERC	South Carolina:	System-wide voltage reductions of 3 percent or more.-Severe Weather	4615	17600
2022	12	12/24/2022 6:35 AM	12/24/2022 4:10 PM	9 Hours, 35 Minutes	Duke Energy Progress	SERC	North Carolina:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	960	130000
2022	12	12/24/2022 9:00 AM	12/24/2022 11:15 AM	2 Hours, 15 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	160	22436
2022	12	12/26/2022 8:30 AM	12/28/2022 9:00 PM	60 Hours, 30 Minutes	Puget Sound Energy	WECC	Washington: King County, Island County, Kittitas County, Kitsap County, Pierce County, Skagit County, Thurston County, Whatcom County:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	230000
2022	12	12/27/2022 7:07 AM	12/29/2022 11:10 AM	52 Hours, 3 Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County:	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	Unknown	Unknown
2022	12	12/27/2022 10:12 AM		. Hours, . Minutes	Portland General Electric Co	WECC	Oregon: Clackamas County, Columbia County, Marion County, Multnomah County, Polk County:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	83060
2022	12	12/27/2022 8:40 PM	12/27/2022 8:41 PM	0 Hours, 1 Minutes	Puget Sound Energy	WECC	Washington: King County:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	11	11600
2022	12	12/29/2022 4:00 PM		. Hours, . Minutes	Lightstone Generation LLC	RF	Ohio:	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Vandalism	2600	Unknown
2022	12	12/31/2022 7:00 PM	01/01/2023 6:00 AM	11 Hours, 0 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	Unknown	161000
2022	12	12/31/2022 8:00 PM	01/03/2023 12:00 AM	52 Hours, 0 Minutes	NVENERGY	WECC	Nevada:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	3500

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, 2021

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
2021	1	01/02/2021 10:28 AM	01/02/2021 10:29 AM	0 Hours, 1 Minutes	Pacific Gas & Electric Co	WECC	California: Butte 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	8	5803
2021	1	01/04/2021 10:34 AM	01/04/2021 10:49 AM	0 Hours, 15 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	6	3825
2021	1	01/10/2021 10:44 PM	01/13/2021 4:00 PM	65 Hours, 16 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Anderson County, Angelina County, Dallas County, Freestone County, Henderson County, Houston County, Leon County, Nacogdoches County, Smith County, Tarrant County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	188000
2021	1	01/11/2021 5:00 AM	01/11/2021 2:22 PM	9 Hours, 22 Minutes	American Electric Power - (SPP Reliability Region)	SERC	Louisiana: Texas;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	Unknown	58000
2021	1	01/12/2021 8:30 PM		. Hours, . Minutes	Snohomish County PUD No 1	WECC	Washington: Snohomish County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	200	62000
2021	1	01/12/2021 8:46 PM	01/13/2021 4:00 PM	19 Hours, 14 Minutes	Portland General Electric Co	WECC	Oregon: Clackamas County, Multnomah County, Washington County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	94231
2021	1	01/12/2021 11:49 PM	01/14/2021 2:00 PM	38 Hours, 11 Minutes	Seattle City Light, Sytem Control Center	WECC	Washington:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	150	70000
2021	1	01/12/2021 11:50 PM	01/15/2021 1:00 PM	61 Hours, 10 Minutes	Puget Sound Energy	WECC	Washington: Kitsap County, Thurston County, King County, Pierce County, Skagit County, Whatcom 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	100	320000
2021	1	01/13/2021 3:43 AM	01/13/2021 4:00 PM	12 Hours, 17 Minutes	Avista Corp	WECC	Washington: Idaho;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	185	70417
2021	1	01/19/2021 2:48 AM	01/20/2021 11:41 AM	32 Hours, 53 Minutes	Pacific Gas & Electric Co	WECC	California: Kern County, Los Angeles County, Riverside County, San Bernardino County, Ventura County, Orange County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	411	124888
2021	1	01/19/2021 9:31 AM	01/21/2021 2:36 PM	53 Hours, 5 Minutes	Southern California Edison Co	WECC		Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	173746
2021	1	01/26/2021 8:49 PM	01/28/2021 9:14 PM	48 Hours, 25 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	841	255715
2021	2	02/01/2021 11:25 PM	02/02/2021 1:12 AM	1 Hours, 47 Minutes	American Electric Power - Texas	TRE	Texas: Kleberg 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	13	6102
2021	2	02/02/2021 9:25 AM	02/03/2021 11:38 AM	26 Hours, 13 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	South Dakota: Hughes 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	5	3
2021	2	02/02/2021 12:34 PM	02/02/2021 3:43 PM	3 Hours, 9 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	South Dakota: Hughes 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	5	4
2021	2	02/03/2021 2:22 PM	02/04/2021 10:32 PM	32 Hours, 10 Minutes	Montana-Dakota Utilities Co	MRO	North Dakota: Logan County, Emmons County, McIntosh 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	7	1400
2021	2	02/06/2021 6:50 AM	02/06/2021 2:43 PM	7 Hours, 53 Minutes	Duke Energy Midwest	RF	Ohio: Kentucky;	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
2021	2	02/08/2021 7:04 AM	02/08/2021 2:10 PM	7 Hours, 6 Minutes	Minnesota Power	MRO	Minnesota: St. Louis 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
2021	2	02/09/2021 10:51 AM		. Hours, . Minutes	Duke Energy Progress	SERC	North Carolina:	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
2021	2	02/10/2021 3:00 PM	02/23/2021 3:00 PM	312 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	2000000
2021	2	02/11/2021 8:30 AM	02/22/2021 9:00 AM	264 Hours, 30 Minutes	Prairie Power, Inc.	SERC	Illinois: Scott County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	Unknown	Unknown
2021	2	02/11/2021 1:00 PM		. Hours, . Minutes	Sunflower Electric Power Corp	MRO	Kansas:	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, 2021

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
2021	2	02/11/2021 7:21 PM	02/11/2021 9:20 PM	1 Hours, 59 Minutes	Public Service Company of Colorado	WECC	Colorado: Morgan 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 Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2021	2	02/12/2021 3:30 PM	02/22/2021 7:30 AM	232 Hours, 0 Minutes	ERCOT	TRE	Texas: Oregon: Clackamas County, Marion County, Polk County, Multnomah County, Washington County, Yamhill County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	Unknown
2021	2	02/12/2021 9:00 PM	02/20/2021 5:15 PM	188 Hours, 15 Minutes	Portland General Electric Co	WECC	South Carolina: North Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	300187
2021	2	02/13/2021 8:32 AM	02/14/2021 3:00 PM	30 Hours, 28 Minutes	Duke Energy Carolinas	SERC	Washington: Lewis County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	129000
2021	2	02/13/2021 9:56 AM	02/13/2021 11:01 AM	1 Hours, 5 Minutes	Bonneville Power Administration	WECC	West Virginia: Virginia;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	164	37583
2021	2	02/13/2021 1:30 PM	02/19/2021 9:00 PM	151 Hours, 30 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	55097
2021	2	02/13/2021 1:30 PM	02/20/2021 8:00 AM	162 Hours, 30 Minutes	American Electric Power - Texas	TRE	Oklahoma:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/14/2021 5:30 AM	02/18/2021 10:00 AM	100 Hours, 30 Minutes	Oklahoma Municipal Power Authority	MRO	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/14/2021 8:30 AM	02/19/2021 6:00 PM	129 Hours, 30 Minutes	ERCOT	TRE	Missouri: Jasper County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/14/2021 8:30 AM	02/19/2021 6:00 PM	129 Hours, 30 Minutes	Oncor Electric Delivery Company LLC	TRE	Missouri: Kansas;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	7214	Unknown
2021	2	02/14/2021 6:00 PM	02/16/2021 10:00 PM	52 Hours, 0 Minutes	Empire District Electric Co	SERC	North Dakota: South Dakota: Nebraska: Kansas: Oklahoma: Texas;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	0	0
2021	2	02/14/2021 7:05 PM	.	. Hours, . Minutes	Eergy	SERC	Arkansas: Louisiana: Texas: Oklahoma;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/14/2021 8:00 PM	02/18/2021 9:28 AM	85 Hours, 28 Minutes	Southwest Power Pool, Inc.	MRO	Nebraska: Lancaster County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	3000	Unknown
2021	2	02/14/2021 8:21 PM	02/18/2021 9:30 AM	85 Hours, 9 Minutes	American Electric Power - (SPP Reliability Region)	SERC	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	461	125484
2021	2	02/14/2021 8:32 PM	.	. Hours, . Minutes	Lincoln Electric System	MRO	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	0	0
2021	2	02/15/2021 12:00 AM	.	. Hours, . Minutes	Entergy Transmission Control Center - North	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	500	Unknown
2021	2	02/15/2021 12:00 AM	.	. Hours, . Minutes	Entergy - Transmission Operations Engineering	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	500	Unknown
2021	2	02/15/2021 1:20 AM	.	. Hours, . Minutes	South Texas Electric Coop, Inc	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	360	72000
2021	2	02/15/2021 1:20 AM	02/18/2021 12:02 AM	70 Hours, 42 Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Hidalgo County, Cameron County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	4966	1390000
2021	2	02/15/2021 1:20 AM	02/18/2021 12:42 AM	71 Hours, 22 Minutes	Magic Valley Electric Cooperative, Inc.	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	Unknown	Unknown
2021	2	02/15/2021 1:20 AM	02/19/2021 9:00 AM	103 Hours, 40 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	7214	Unknown
2021	2	02/15/2021 1:23 AM	02/19/2021 5:30 AM	100 Hours, 7 Minutes	ERCOT	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	Unknown	Unknown
2021	2	02/15/2021 1:54 AM	02/17/2021 11:56 PM	70 Hours, 2 Minutes	TNMP	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	524	Unknown
2021	2	02/15/2021 1:54 AM	02/19/2021 9:00 AM	103 Hours, 6 Minutes	Austin Energy	TRE	Texas: Travis County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	724	Unknown
2021	2	02/15/2021 2:51 AM	02/19/2021 9:00 AM	102 Hours, 9 Minutes	Austin Energy	TRE	Texas: Travis County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	219306
2021	2	02/15/2021 3:06 AM	.	. Hours, . Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	154000
2021	2	02/15/2021 5:00 AM	02/17/2021 4:00 PM	59 Hours, 0 Minutes	Arkansas Electric Coop Corp	SERC	Arkansas: Pulaski County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/15/2021 5:27 AM	02/18/2021 8:18 AM	74 Hours, 51 Minutes	ERCOT	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	Unknown
2021	2	02/15/2021 5:36 AM	.	. Hours, . Minutes	Entergy - Transmission Operations Engineering	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	300	Unknown
2021	2	02/15/2021 5:36 AM	.	. Hours, . Minutes	Entergy Transmission Control Center - South	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	300	Unknown

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	2	02/15/2021 5:40 AM	02/16/2021 1:11 PM	31 Hours, 31 Minutes	MISO	TRE	Texas	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	800	Unknown
2021	2	02/15/2021 6:45 AM		. Hours, . Minutes	Entergy Corp	TRE	Texas; Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	Unknown
2021	2	02/15/2021 6:51 AM	02/16/2021 1:19 PM	30 Hours, 28 Minutes	Oklahoma Gas & Electric Co	MRO	Oklahoma	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	350	200000
2021	2	02/15/2021 7:00 AM	02/18/2021 9:00 AM	74 Hours, 0 Minutes	Oklahoma Gas & Electric Co	MRO	Oklahoma	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2021	2	02/15/2021 7:52 AM	02/17/2021 2:15 PM	54 Hours, 23 Minutes	Bluebonnet Electric Coop, Inc	TRE	Texas: Mason County; Bastrop County, Burleson County, Caldwell County, Colorado County, Fayette County, Gonzales County, Guadalupe County, Hays County, Lee County, Milam County, Travis County, Washington County, Williamson County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	107	25000
2021	2	02/15/2021 8:50 AM	02/18/2021 9:30 AM	72 Hours, 40 Minutes	Sunflower Electric Power Corp	MRO	Kansas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	Unknown	Unknown
2021	2	02/15/2021 9:10 AM		. Hours, . Minutes	Southwestern Public Service	TRE	Texas: Randall County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	0	0
2021	2	02/15/2021 10:00 AM		. Hours, . Minutes	Lincoln Electric System	MRO	Nebraska: Lancaster County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	613	Unknown
2021	2	02/15/2021 10:24 AM	02/18/2021 9:52 AM	71 Hours, 28 Minutes	Lubbock Power & Light	TRE	Texas: Lubbock County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	116	29942
2021	2	02/15/2021 12:18 PM	02/15/2021 1:22 PM	1 Hours, 4 Minutes	Eergy	SERC	Missouri: Kansas;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	Unknown	Unknown
2021	2	02/15/2021 1:00 PM	02/20/2021 10:00 AM	117 Hours, 0 Minutes	Southwestern Public Service Company	TRE	Texas	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	Unknown	175000
2021	2	02/15/2021 2:00 PM	02/15/2021 6:00 PM	4 Hours, 0 Minutes	Louisiana Generating LLC	SERC	Louisiana	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	Unknown	Unknown
2021	2	02/15/2021 3:00 PM	02/19/2021 10:00 AM	91 Hours, 0 Minutes	Cleco Power LLC	SERC	Louisiana	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	Unknown	Unknown
2021	2	02/15/2021 5:00 PM	02/15/2021 10:59 PM	5 Hours, 59 Minutes	Cooperative Energy	SERC	Mississippi	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	Unknown	Unknown
2021	2	02/15/2021 6:00 PM	02/15/2021 11:55 PM	5 Hours, 55 Minutes	Entergy Services, Inc.	TRE	Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	Unknown	Unknown
2021	2	02/15/2021 6:00 PM	02/15/2021 11:59 PM	5 Hours, 59 Minutes	Entergy Services, Inc.	TRE	Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	Unknown	Unknown
2021	2	02/15/2021 6:00 PM	02/15/2021 11:59 PM	5 Hours, 59 Minutes	Louisiana Generating LLC	SERC	Louisiana	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- System Operations	Unknown	Unknown
2021	2	02/15/2021 7:48 PM	02/18/2021 10:30 AM	62 Hours, 42 Minutes	Oklahoma Municipal Power Authority	MRO	Oklahoma: Kay County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	Unknown
2021	2	02/16/2021 1:00 AM	02/16/2021 9:28 PM	20 Hours, 28 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	SERC	Kentucky	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	54167
2021	2	02/16/2021 4:26 AM		. Hours, . Minutes	Entergy Transmission Control Center - South	TRE	Texas	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	300	Unknown
2021	2	02/16/2021 5:30 AM	02/16/2021 2:00 PM	8 Hours, 30 Minutes	Midcontinent Independent System Operator	SERC	Louisiana: Texas; Illinois;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	1420	Unknown
2021	2	02/16/2021 6:10 AM		. Hours, . Minutes	Ameren Illinois Company	SERC	Missouri	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather/Transmission Interruption	130	Unknown
2021	2	02/16/2021 6:24 AM	02/16/2021 10:41 AM	4 Hours, 17 Minutes	Louisiana Generating LLC	SERC	Louisiana	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	100	18150
2021	2	02/16/2021 6:48 AM		. Hours, . Minutes	Entergy Transmission Control Center - South	SERC	Louisiana: Texas	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	402	Unknown
2021	2	02/16/2021 6:48 AM		. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	360	Unknown
2021	2	02/16/2021 7:03 AM	02/20/2021 10:00 PM	110 Hours, 57 Minutes	Eergy	MRO	Kansas: Missouri;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	Unknown	222000
2021	2	02/16/2021 7:17 AM	02/16/2021 10:08 AM	2 Hours, 51 Minutes	Southwestern Public Service	TRE	Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	168	840000
2021	2	02/16/2021 7:20 AM	02/16/2021 10:02 AM	2 Hours, 42 Minutes	Omaha Public Power District	MRO	Nebraska: Douglas County; Burt County, Washington County, Dodge County, Colfax County, Saunders County, Sarpy County, Cass County, Otoe County, Johnson County, Nemaha County, Pawnee County, Richardson County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	126	81100
2021	2	02/16/2021 7:22 AM	02/16/2021 8:00 AM	0 Hours, 38 Minutes	Cleco Power LLC	SERC	Louisiana: Allen Parish, St. Landry Parish, Evangeline Parish;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	153	Unknown

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	2	02/16/2021 9:31 AM	02/16/2021 10:27 AM	0 Hours, 56 Minutes	Nebraska Public Power District	MRO	Nebraska: Custer 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	31	Unknown
2021	2	02/16/2021 4:40 PM	02/20/2021 12:00 AM	79 Hours, 20 Minutes	Ameren Illinois Company	SERC	Missouri	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/16/2021 5:35 PM	02/17/2021 12:00 AM	6 Hours, 25 Minutes	Lafayette Public Power Auth	SERC	Louisiana: Lafayette Parish	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/16/2021 5:35 PM	02/17/2021 12:00 AM	6 Hours, 25 Minutes	Cooperative Energy	SERC	Mississippi	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/16/2021 6:19 PM		. Hours, . Minutes	Entergy - Transmission Operations Engineering	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).-Transmission Interruption	Unknown	Unknown
2021	2	02/16/2021 6:35 PM	02/17/2021 1:00 AM	6 Hours, 25 Minutes	Entergy Services, Inc.	TRE	Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Fuel Supply Deficiency	Unknown	Unknown
2021	2	02/16/2021 6:35 PM	02/17/2021 1:00 AM	6 Hours, 25 Minutes	Louisiana Generating LLC	SERC	Louisiana	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-System Operations	Unknown	Unknown
2021	2	02/16/2021 7:40 PM	02/17/2021 1:00 AM	5 Hours, 20 Minutes	Entergy Services, Inc.	TRE	Texas	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	538	Unknown
2021	2	02/16/2021 7:43 PM	02/16/2021 9:41 PM	1 Hours, 58 Minutes	Midcontinent Independent System Operator	SERC	Louisiana: Arkansas: Texas: Mississippi	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	700	Unknown
2021	2	02/17/2021 9:00 AM	02/19/2021 9:00 AM	48 Hours, 0 Minutes	Sunflower Electric Power Corp	MRO	Kansas	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	Unknown	Unknown
2021	2	02/17/2021 10:30 AM	02/17/2021 6:04 PM	7 Hours, 34 Minutes	Duke Energy Progress	SERC	North Carolina	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
2021	2	02/17/2021 5:00 PM	02/17/2021 10:00 PM	5 Hours, 0 Minutes	Lafayette Public Power Auth	SERC	Louisiana: Lafayette Parish	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	400	67000
2021	2	02/17/2021 5:00 PM	02/17/2021 10:00 PM	5 Hours, 0 Minutes	Cooperative Energy	SERC	Mississippi	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/17/2021 6:00 PM	02/17/2021 11:00 PM	5 Hours, 0 Minutes	Entergy Services, Inc.	TRE	Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2021	2	02/17/2021 6:00 PM	02/17/2021 11:00 PM	5 Hours, 0 Minutes	Louisiana Generating LLC	SERC	Louisiana	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-System Operations	Unknown	Unknown
2021	2	02/19/2021 6:48 AM		. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: Texas	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	402	Unknown
2021	3	03/01/2021 10:45 PM	03/02/2021 6:35 PM	19 Hours, 50 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	69260
2021	3	03/06/2021 3:21 AM	03/06/2021 4:07 AM	0 Hours, 46 Minutes	Pacific Gas & Electric Co	WECC	California: Tuolumne 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	22	24000
2021	3	03/17/2021 6:15 AM	03/18/2021 12:00 PM	29 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County: Tarrant County	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	148000
2021	3	03/17/2021 6:27 AM	03/17/2021 8:27 AM	2 Hours, 0 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	43	7381
2021	3	03/29/2021 11:06 AM		. Hours, . Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: Vermont: Rhode Island: New Hampshire	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	70000
2021	3	03/30/2021 4:18 PM	03/30/2021 8:21 PM	4 Hours, 3 Minutes	American Electric Power - Texas	TRE	Texas: Hidalgo 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
2021	4	04/13/2021 4:49 PM	04/13/2021 8:30 PM	3 Hours, 41 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	0	0
2021	4	04/21/2021 8:31 PM	04/21/2021 9:35 PM	1 Hours, 4 Minutes	Northern States Power Co	MRO	Minnesota: Dakota 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
2021	4	04/22/2021 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
2021	4	04/24/2021 9:00 PM	04/25/2021 10:43 AM	13 Hours, 43 Minutes	Southern Company	SERC	Alabama: Calhoun County: Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	137	18860

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	5	05/04/2021 3:45 PM	05/05/2021 10:00 AM	18 Hours, 15 Minutes	Entergy Corp	SERC	Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	104027
2021	5	05/04/2021 6:06 PM	05/05/2021 5:48 PM	23 Hours, 42 Minutes	Southern Company	SERC	Mississippi; Alabama; Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	175	24457
2021	5	05/06/2021 5:00 PM	05/06/2021 5:15 PM	0 Hours, 15 Minutes	Empire District Electric Co	SERC	Missouri: Jasper County	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- System Operations	0	0
2021	5	05/18/2021 11:25 PM	05/19/2021 8:30 PM	21 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	125000
2021	5	05/20/2021 10:06 AM	05/20/2021 1:45 PM	3 Hours, 39 Minutes	Florida Power & Light	SERC	Florida: Brevard 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	35000
2021	5	05/27/2021 6:51 PM	05/28/2021 3:56 PM	21 Hours, 5 Minutes	Southern California Edison Co	WECC	California: Nevada	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
2021	5	05/28/2021 9:24 PM	05/28/2021 9:25 PM	0 Hours, 1 Minutes	JEA	SERC	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	1850	10000
2021	6	06/06/2021 2:57 PM	06/06/2021 4:00 PM	1 Hours, 3 Minutes	Duke Energy Midwest	RF	Indiana: Clay 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
2021	6	06/07/2021 1:26 PM	06/07/2021 1:27 PM	0 Hours, 1 Minutes	Vistra Energy	TRE	Texas: Somervell County; Ellis County	Transmission Interruption	1435	0
2021	6	06/07/2021 10:27 PM	06/08/2021 12:33 AM	2 Hours, 6 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	Minnesota: 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).-Severe Weather/Transmission Interruption	23	1
2021	6	06/10/2021 10:28 PM	06/10/2021 11:07 PM	0 Hours, 39 Minutes	Board of Public Utilities, Kansas City	MRO	Kansas: Wyandotte 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	90	9800
2021	6	06/11/2021 3:26 AM	06/11/2021 3:48 AM	0 Hours, 22 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR01036)	MRO	South Dakota: Brown 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
2021	6	06/14/2021 12:15 PM	06/18/2021 7:00 PM	102 Hours, 45 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- System Operations	Unknown	Unknown
2021	6	06/14/2021 12:55 PM	06/18/2021 7:00 PM	102 Hours, 5 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- System Operations	Unknown	Unknown
2021	6	06/16/2021 10:40 AM	06/16/2021 10:43 AM	0 Hours, 3 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: West Baton Rouge 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	7	1841
2021	6	06/19/2021 6:54 PM	06/19/2021 9:01 PM	2 Hours, 7 Minutes	Pacific Gas & Electric Co	WECC	California: Alameda County	Loss of electric service to more than 50,000 customers for 1 hour or more.-System Operations	93	51806
2021	6	06/21/2021 5:14 AM	06/21/2021 7:00 PM	13 Hours, 46 Minutes	Detroit Edison Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	151852
2021	6	06/24/2021 3:34 AM	06/24/2021 5:07 AM	1 Hours, 33 Minutes	Pacific Gas & Electric Co	WECC	California: Plumas County	Electrical system separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Transmission Interruption	36	7621
2021	6	06/28/2021 11:22 AM	.	. Hours, . Minutes	Duke Energy Progress	SERC	North Carolina	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
2021	6	06/28/2021 1:20 PM	.	. Hours, . Minutes	Avista Corp	WECC	Washington: Spokane County, Stevens County, Lincoln County, Adams County, Whitman County; Idaho: Kootenai County, Bonner County, Shoshone County, Boundary County, Benewah County, Latah County, Nez Perce County	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather	44	Unknown
2021	6	06/29/2021 4:00 PM	.	. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Oakland County, Macomb County, Wayne County	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	53000
2021	6	06/30/2021 6:50 PM	.	. Hours, . Minutes	ISO New England	NPCC	Connecticut: Massachusetts; Rhode Island: Vermont; New Hampshire; Maine	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	53103

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	7	07/06/2021 7:41 PM	07/06/2021 9:50 PM	2 Hours, 9 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	136827
2021	7	07/06/2021 7:41 PM	07/06/2021 9:50 PM	2 Hours, 9 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	136827
2021	7	07/07/2021 3:30 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Macomb County, Oakland County, Monroe County, Livingston County, St. Clair County, Washtenaw County, Wayne County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000
2021	7	07/07/2021 3:30 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Macomb County, Oakland County, Monroe County, Livingston County, St. Clair County, Washtenaw County, Wayne County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000
2021	7	07/10/2021 12:00 AM	07/11/2021 4:00 PM	40 Hours, 0 Minutes	Omaha Public Power District	MRO	Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	188000
2021	7	07/10/2021 12:00 AM	07/11/2021 4:00 PM	40 Hours, 0 Minutes	Omaha Public Power District	MRO	Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	188000
2021	7	07/10/2021 12:30 AM	07/10/2021 5:00 AM	4 Hours, 30 Minutes	Southwest Power Pool, Inc.	MRO/SERC	Missouri: Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	212500
2021	7	07/10/2021 12:30 AM	07/10/2021 5:00 AM	4 Hours, 30 Minutes	Southwest Power Pool, Inc.	MRO/SERC	Nebraska: Missouri:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	211500
2021	7	07/10/2021 12:30 AM	07/10/2021 5:00 AM	4 Hours, 30 Minutes	Southwest Power Pool, Inc.	MRO/SERC	Missouri: Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	212500
2021	7	07/10/2021 12:30 AM	07/10/2021 5:00 AM	4 Hours, 30 Minutes	Southwest Power Pool, Inc.	MRO/SERC	Nebraska: Missouri:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	211500
2021	7	07/10/2021 1:55 AM	07/10/2021 1:56 AM	0 Hours, 1 Minutes	Ameren Illinois Company	SERC	Missouri:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52000
2021	7	07/10/2021 1:55 AM	07/10/2021 1:56 AM	0 Hours, 1 Minutes	Ameren Illinois Company	SERC	Missouri:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52000
2021	7	07/14/2021 2:15 PM	07/14/2021 2:16 PM	0 Hours, 1 Minutes	Pacific Gas & Electric Co	WECC	California: Plumas County;	Electrical system separation (islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather/Transmission Interruption	35	11000
2021	7	07/14/2021 2:15 PM	07/14/2021 2:16 PM	0 Hours, 1 Minutes	Pacific Gas & Electric Co	WECC	California: Plumas County;	Electrical system separation (islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather/Transmission Interruption	35	11000
2021	7	07/21/2021 2:45 PM	07/22/2021 12:00 PM	21 Hours, 15 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	81503
2021	7	07/21/2021 2:45 PM	07/22/2021 12:00 PM	21 Hours, 15 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	81503
2021	7	07/23/2021 8:20 AM	07/23/2021 10:45 AM	2 Hours, 25 Minutes	Dominion Energy VA	RF/SERC	Virginia: West Virginia:	Complete loss or monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more. System Operations	0	0
2021	7	07/23/2021 8:20 AM	07/23/2021 10:45 AM	2 Hours, 25 Minutes	Dominion Energy VA	RF/SERC	Virginia: West Virginia:	Complete loss or monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more. System Operations	0	0
2021	7	07/24/2021 8:30 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Oakland County, Livingston County, Macomb County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	225949
2021	7	07/24/2021 8:30 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Oakland County, Livingston County, Macomb County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	225949
2021	7	07/28/2021 12:54 PM	07/28/2021 3:42 PM	2 Hours, 48 Minutes	Central Maine Power Co	NPCC	Maine:	Complete loss or monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more. System Operations	0	0
2021	7	07/28/2021 12:54 PM	07/28/2021 3:42 PM	2 Hours, 48 Minutes	Central Maine Power Co	NPCC	Maine:	Complete loss or monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more. System Operations	0	0
2021	7	07/30/2021 8:02 AM	07/30/2021 9:34 AM	1 Hours, 32 Minutes	WEC Energy Group (WEPCO, WPSC, UMER, WEP-MIUP)	MRO	Wisconsin:	Complete loss or monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more. Cyber Event	0	0
2021	7	07/30/2021 8:02 AM	07/30/2021 9:34 AM	1 Hours, 32 Minutes	WEC Energy Group (WEPCO, WPSC, UMER, WEP-MIUP)	MRO	Wisconsin:	Complete loss or monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more. Cyber Event	0	0
2021	8	08/01/2021 11:37 PM	08/02/2021 12:00 AM	0 Hours, 23 Minutes	Pacific Gas & Electric Co	WECC	California: Humboldt County, Trinity County;	Electrical system separation (islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	95	65888
2021	8	08/02/2021 12:18 AM	08/02/2021 10:47 AM	10 Hours, 29 Minutes	LCRA TSC	TRE	Texas: Hays 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	24	9400

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	8	08/02/2021 6:23 AM	08/02/2021 3:55 PM	9 Hours, 32 Minutes	LCRA TSC	TRE	Texas: Hays 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	43	19000
2021	8	08/03/2021 4:35 AM	08/03/2021 5:28 AM	0 Hours, 53 Minutes	Bonneville Power Administration	WECC	Oregon: Linn County; Wisconsin: Waushara County; Milwaukee County; Kenosha County, Racine County, Washington County, Ozaukee 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	4	Unknown
2021	8	08/10/2021 8:00 PM		. Hours, . Minutes	WEC Energy Group (WEPCO, WPSC, UMERG, WEP-MIUP)	RF/SERC	Illinois: Antrim County, Barry County, Benzie County, Branch County, Calhoun County, Clare County, Clinton County, Crawford County, Eaton County, Genesee County, Gladwin County, Grand Traverse County, Gratiot County, Hillsdale County, Ingham County, Ionia County, Isabella County, Jackson County, Kalamazoo County, Kalkaska County, Kent County, Lake County, Macomb County, Lapeer County, Macomb County, Monroe County, Oakland County, St. Clair County, Tuscola County, Wayne County, Washtenaw County, Livingston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	233000
2021	8	08/10/2021 8:30 PM	08/11/2021 7:00 PM	22 Hours, 30 Minutes	ComEd	RF/SERC	Illinois:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	318761
2021	8	08/10/2021 10:30 PM	08/13/2021 4:38 PM	66 Hours, 8 Minutes	Consumers Energy Co	RF	Illinois: Antrim County, Barry County, Benzie County, Branch County, Calhoun County, Clare County, Clinton County, Crawford County, Eaton County, Genesee County, Gladwin County, Grand Traverse County, Gratiot County, Hillsdale County, Ingham County, Ionia County, Isabella County, Jackson County, Kalamazoo County, Kalkaska County, Kent County, Lake County, Macomb County, Lapeer County, Macomb County, Monroe County, Oakland County, St. Clair County, Tuscola County, Wayne County, Washtenaw County, Livingston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	372600
2021	8	08/11/2021 3:35 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Huron County, Lapeer County, Macomb County, Monroe County, Oakland County, St. Clair County, Tuscola County, Wayne County, Washtenaw County, Livingston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	700000
2021	8	08/11/2021 7:12 PM	08/11/2021 9:49 PM	2 Hours, 37 Minutes	Cleveland Electric Illum Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	92109
2021	8	08/12/2021 6:57 PM	08/13/2021 6:00 AM	11 Hours, 3 Minutes	Ameren Missouri	RF/SERC	Illinois: Missouri: Cameron County, Colusa County, Glenn County, Lake County, Lassen County, Mendocino County, Napa County, Plumas County, Shasta County, Sierra County, Solano County, Sonoma County, Tehama County, Trinity County, Yolo County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	101000
2021	8	08/17/2021 7:15 PM	08/18/2021 5:45 PM	22 Hours, 30 Minutes	Pacific Gas & Electric Co	WECC	California: Butte County, Colusa County, Glenn County, Lake County, Lassen County, Mendocino County, Napa County, Plumas County, Shasta County, Sierra County, Solano County, Sonoma County, Tehama County, Trinity County, Yolo County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	234	71000
2021	8	08/21/2021 10:14 AM	08/21/2021 10:52 AM	0 Hours, 38 Minutes	Idaho Power Company	WECC	Idaho: Elmore County;	Electrical system separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	0	418
2021	8	08/22/2021 12:11 PM	08/23/2021 4:30 PM	28 Hours, 19 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	28134
2021	8	08/24/2021 5:00 PM	08/26/2021 2:07 PM	45 Hours, 7 Minutes	Consumers Energy Co	RF	Michigan: Huron County, Lapeer County, Macomb County, Monroe County, Oakland County, St. Clair County, Wayne County, Washtenaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	84987
2021	8	08/24/2021 9:37 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Huron County, Lapeer County, Macomb County, Monroe County, Oakland County, St. Clair County, Wayne County, Washtenaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	65000
2021	8	08/29/2021 9:32 AM	08/29/2021 9:32 PM	12 Hours, 0 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: Pointe Coupee 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	Unknown	Unknown
2021	8	08/29/2021 11:30 AM		. Hours, . Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2021	8	08/29/2021 5:53 PM		. Hours, . Minutes	Entergy Transmission Control Center - North	SERC	Louisiana:	Electrical system separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	Unknown	Unknown
2021	8	08/29/2021 6:00 PM	09/03/2021 1:41 PM	115 Hours, 41 Minutes	Cleco Power LLC	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	91315
2021	8	08/29/2021 6:04 PM	08/31/2021 10:36 PM	52 Hours, 32 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: St. Charles Parish;	Complete loss of on-site power (LOOP) affecting a nuclear generating station per the Nuclear Plant Interface Requirements.-Severe Weather	Unknown	Unknown
2021	8	08/29/2021 8:25 PM		. Hours, . Minutes	Consolidated Edison of New York, Inc.	NPCC	New York:	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	796	0
2021	8	08/29/2021 10:39 PM	09/03/2021 8:38 AM	105 Hours, 59 Minutes	Louisiana Generating LLC	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2021	9	09/01/2021 5:30 PM	09/02/2021 2:00 AM	8 Hours, 30 Minutes	Exelon Corporation/PECO	RF	Pennsylvania: Bucks County, Chester County, Delaware County, Montgomery County, Philadelphia County, York	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	252740

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	9	09/07/2021 5:30 PM	09/09/2021 9:00 AM	39 Hours, 30 Minutes	Consumers Energy	RF	Michigan: Oshtemo County, Kalamazoo County, Van Buren County, Saginaw County, Arenac County, Lake County, Clare County, Mecosta County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	80000
2021	9	09/07/2021 8:00 PM	09/09/2021 7:00 AM	35 Hours, 0 Minutes	Detroit Edison Co	RF	Michigan: Wayne County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	60000
2021	9	09/08/2021 12:15 PM	09/08/2021 12:38 PM	0 Hours, 23 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR01036)	MRO	North Dakota: Cass 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	37	1
2021	9	09/09/2021 5:00 PM	09/09/2021 8:00 PM	3 Hours, 0 Minutes	NV Energy	WECC	Nevada: Clark County, Washoe County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-System Operations	8000	1300000
2021	9	09/10/2021 1:55 AM	09/10/2021 2:04 AM	0 Hours, 9 Minutes	Duke Energy Florida	SERC	Florida: Citrus 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	75	Unknown
2021	9	09/10/2021 7:20 AM	09/10/2021 9:05 AM	1 Hours, 45 Minutes	Pacific Gas and Electric	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	89	59649
2021	9	09/10/2021 11:17 AM	09/10/2021 11:19 AM	0 Hours, 2 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR01036)	MRO	North Dakota: McKenzie 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	6	1
2021	9	09/13/2021 12:18 PM	09/13/2021 1:15 PM	0 Hours, 57 Minutes	Bonneville Power Administration	WECC	Washington: Skagit 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
2021	9	09/13/2021 6:00 PM	09/14/2021 12:49 AM	6 Hours, 49 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	66589
2021	9	09/13/2021 11:59 PM	.	. Hours, . Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	204280
2021	9	09/14/2021 12:35 AM	09/18/2021 7:20 PM	114 Hours, 45 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1905	705415
2021	9	09/14/2021 7:36 AM	09/15/2021 1:48 AM	18 Hours, 12 Minutes	ERCOT	TRE	Texas:	Electrical system separation (islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	0	Unknown
2021	9	09/14/2021 7:52 AM	09/14/2021 10:44 PM	14 Hours, 52 Minutes	ERCOT	TRE	Texas:	Electrical system separation (islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	0	Unknown
2021	9	09/16/2021 2:49 PM	09/16/2021 8:02 PM	5 Hours, 13 Minutes	American Electric Power - (SPP Reliability Region)	MRO/SERC	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).-Transmission Interruption	100	4000
2021	9	09/16/2021 2:49 PM	09/16/2021 8:02 PM	5 Hours, 13 Minutes	American Electric Power - (SPP Reliability Region)	MRO/SERC	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).-Transmission Interruption	100	4000
2021	9	09/17/2021 3:00 AM	09/18/2021 10:00 PM	43 Hours, 0 Minutes	Northern States Power Co	MRO	Minnesota:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82000
2021	9	09/17/2021 11:00 PM	09/19/2021 12:00 PM	37 Hours, 0 Minutes	Puget Sound Energy	WECC	Washington: Pierce County, Whatcom County, Skagit County, King County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	87000
2021	9	09/22/2021 5:17 PM	.	. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Lenawee County, Livingston County, Genesee County, Tuscola County, Huron County, Sanilac County, Lapeer County, St. Clair County, Macomb County, Oakland County, Washtenaw County, Wayne County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	136000
2021	9	09/28/2021 1:44 PM	09/28/2021 1:56 PM	0 Hours, 12 Minutes	Gridforce Energy Management LLC	SERC	Kentucky: Henderson County;	Electrical system separation (islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	20	5000
2021	10	10/10/2021 10:15 PM	10/12/2021 5:00 PM	42 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Ellis County, Hunt County, Johnson County, Palo Pinto County, Tarrant County, Wichita County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	110000
2021	10	10/11/2021 2:22 PM	10/11/2021 8:30 PM	6 Hours, 8 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	126	84000
2021	10	10/16/2021 2:16 PM	10/16/2021 6:41 PM	4 Hours, 25 Minutes	Bonneville Power Administration	WECC	Oregon: Lane 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	Unknown

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	10	10/19/2021 3:34 PM	10/19/2021 4:26 PM	0 Hours, 52 Minutes	FirstEnergy Corp	RF	Ohio: Summit 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	42	1
2021	10	10/24/2021 7:00 AM	10/26/2021 9:30 PM	62 Hours, 30 Minutes	Puget Sound Energy	WECC	Washington: King County, Pierce County, Skagit County, Thurston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	233000
2021	10	10/24/2021 8:55 AM	10/25/2021 6:15 PM	33 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	116	59000
2021	10	10/27/2021 2:25 AM	10/29/2021 8:37 AM	54 Hours, 12 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	169000
2021	10	10/27/2021 5:57 PM	10/28/2021 4:49 PM	22 Hours, 52 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: Ascension 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).-System Operations	0	0
2021	10	10/28/2021 12:47 PM	10/28/2021 1:05 PM	0 Hours, 18 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR01036)	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	20	0
2021	10	10/28/2021 2:15 PM	10/30/2021 8:00 AM	41 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Angelina County, De Witt County, Cherokee County, Collin County, Denton County, Dallas County, Ellis County, Hunt County, Johnson County, McLennan County, Nacogdoches County, Smith County, Tarrant County, Travis County, Williamson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	250000
2021	10	10/28/2021 2:45 PM	10/29/2021 8:30 PM	29 Hours, 45 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	130000
2021	11	11/04/2021 9:34 PM	11/04/2021 10:57 PM	1 Hours, 23 Minutes	Western Area Power Administration - Upper Great Plains Region - (NCR05467)	WECC	Montana: Hill 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	44	Unknown
2021	11	11/08/2021 10:53 PM	11/08/2021 11:33 PM	0 Hours, 40 Minutes	Puget Sound Energy	WECC	Washington: King County;	Electrical system separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	9	Unknown
2021	11	11/09/2021 6:00 PM	11/09/2021 8:00 PM	2 Hours, 0 Minutes	Clarksdale Public Utilities	SERC	Mississippi: Coahoma County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-System Operations	Unknown	Unknown
2021	11	11/10/2021 9:49 AM	11/10/2021 10:05 AM	0 Hours, 16 Minutes	Consolidated Edison of New York, Inc.	NPCC	New York:	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
2021	11	11/10/2021 9:19 PM	11/11/2021 1:19 AM	4 Hours, 0 Minutes	Entergy - Transmission Operations Engineering	TRE	Texas: Brazos 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
2021	11	11/11/2021 5:52 AM	11/11/2021 6:09 AM	0 Hours, 17 Minutes	Entergy - Transmission Operations Engineering	TRE	Texas: Montgomery 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	67	Unknown
2021	11	11/15/2021 11:00 AM	11/17/2021 6:00 AM	43 Hours, 0 Minutes	Puget Sound Energy	WECC	Washington: King County, Kitsap County, Whatcom County, Thurston County, Pierce County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000
2021	11	11/24/2021 10:00 AM	11/26/2021 10:21 AM	48 Hours, 21 Minutes	Southern California Edison Co	WECC	California: Riverside County, Ventura County, San Bernardino County, Orange County, Los Angeles	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	81406
2021	11	11/30/2021 6:46 AM	11/30/2021 6:47 AM	0 Hours, 1 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	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
2021	11	11/30/2021 1:47 PM	11/30/2021 2:21 PM	0 Hours, 34 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical system separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	10	6000
2021	12	12/07/2021 2:33 PM	12/07/2021 3:40 PM	1 Hours, 7 Minutes	Duke Energy Midwest	RF	Indiana: Putnam 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
2021	12	12/11/2021 3:13 AM	12/15/2021 3:30 PM	108 Hours, 17 Minutes	Nashville Electric Service	SERC	Tennessee: Davidson County, Sumner County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	177	107344
2021	12	12/11/2021 10:30 AM	12/11/2021 3:00 PM	4 Hours, 30 Minutes	Consumers Energy Co	MRO	Michigan: Gladwin County, Montcalm County, Branch County, Allegan County, Ionia County, Newaygo County, Mecosta County, Lake County, Midland County, Ogemaw County, Osceola County, Tuscola	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	159947
2021	12	12/11/2021 11:13 AM	12/12/2021 11:06 PM	35 Hours, 53 Minutes	Detroit Edison Co	MRO	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	182410

Table B.2 Major Disturbances and Unusual Occurrences, 2021

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
2021	12	12/11/2021 6:16 PM	12/13/2021 5:00 PM	46 Hours, 44 Minutes	National Grid	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103000
2021	12	12/14/2021 7:28 AM	12/14/2021 1:43 PM	6 Hours, 15 Minutes	Pacific Gas & Electric Co	WECC	California: Humboldt County:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	120	65994
2021	12	12/14/2021 9:39 AM	12/14/2021 9:48 AM	0 Hours, 9 Minutes	Chelan County PUD	WECC	Washington: Chelan 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
2021	12	12/15/2021 3:56 PM	12/15/2021 5:27 PM	1 Hours, 31 Minutes	Nebraska Public Power District	MRO	Nebraska: Burt 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	5	Unknown
2021	12	12/15/2021 4:37 PM	.	. Hours, . Minutes	Eergy	SERC/MRO	Missouri: Kansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2021	12	12/15/2021 4:37 PM	12/16/2021 11:30 AM	18 Hours, 53 Minutes	Eergy, Inc	SERC/MRO	Missouri: Kansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	0	258000
2021	12	12/15/2021 6:00 PM	12/16/2021 9:00 AM	15 Hours, 0 Minutes	Alliant Energy	MRO	Iowa: Wisconsin:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	134000
2021	12	12/15/2021 7:00 PM	12/16/2021 3:00 AM	8 Hours, 0 Minutes	Southwest Power Pool, Inc.	MRO	Kansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	174000
2021	12	12/15/2021 8:00 PM	.	. Hours, . Minutes	We Energies	MRO	Wisconsin:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	156000
2021	12	12/15/2021 8:00 PM	.	. Hours, . Minutes	WPSC	MRO	Wisconsin:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	80000
2021	12	12/16/2021 6:00 AM	12/16/2021 8:00 PM	14 Hours, 0 Minutes	Consumers Energy Co	MRO	Kalkaska County, Grand Traverse County, Leelanau County, Benzie County, Manistee County, Wexford County, Missaukee County, Lake County, Osceola County, Oceana County, Newaygo County, Mecosta County, Emmet County, Charlevoix County, Cheboygan County, Clare County, Roscommon County, Crawford County, Ogemaw County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	200675
2021	12	12/21/2021 9:59 PM	12/22/2021 2:15 PM	16 Hours, 16 Minutes	American Electric Power - Texas	TRE	Texas: 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)-System Operations	22	Unknown
2021	12	12/23/2021 2:02 PM	12/23/2021 2:55 PM	0 Hours, 53 Minutes	Eversource Energy (NSTAR)	NPCC	Massachusetts: Suffolk 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)-System Operations	0	0
2021	12	12/24/2021 12:34 AM	12/24/2021 6:40 AM	6 Hours, 6 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Rusk 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	Unknown	Unknown
2021	12	12/27/2021 9:01 PM	12/30/2021 9:11 AM	60 Hours, 10 Minutes	Pacific Gas & Electric Co	WECC	California: Humboldt County:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	120	65994

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, EPCD 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, EPCD 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, EPCD 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

EPCD 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 n th digit if the $(n+1)$ digit is 5 or larger and keep the n th digit unchanged if the $(n+1)$ digit is less than 5. The symbol for a number rounded to zero is (*).

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

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

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

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

P Indicates a preliminary value.

NM Data value is not meaningful, either (1) when compared to the same value for the previous time period, or (2) when a data value is not meaningful due to having a high Relative Standard Error (RSE).

Form EIA-826

The Form EIA 826, “Monthly Electric Utility Sales and Revenues with State Distributions Report,” is a monthly collection of data from a sample of approximately 500 of the largest electric utilities (primarily investor owned and publicly owned) as well as a census of energy service providers with sales to ultimate consumers in deregulated States. Form EIA-861, with approximately 3,300 respondents, serves as a frame from which the Form 826 sample is drawn. Based on this sample, a model is used to estimate for the entire universe of U.S. electric utilities.

Instrument and design history: The collection of electric power sales data and related information began in the early 1940’s and was established as FPC Form 5 by FPC Order 141 in 1947. In 1980, the report was revised with only selected income items remaining and became the FERC Form 5. The Form EIA 826, “Electric Utility Company Monthly Statement,” replaced the FERC Form 5 in January 1983. In January 1987, the “Electric Utility Company Monthly Statement” was changed to the “Monthly Electric Utility Sales and Revenue Report with State Distributions.” The title was changed again in January 2002 to “Monthly Electric Utility Sales and Revenues with State Distributions Report” to become consistent with other EIA report titles. The Form EIA 826 was revised in January 1990, and some data elements were eliminated.

In 1993, EIA for the first time used a model sample for the Form EIA 826. A stratified random sample, employing auxiliary data, was used for each of the four previous years. The sample for the Form EIA 826 was designed to obtain estimates of electricity sales and average price of electricity to ultimate consumers at the State level by end use sector.

Starting with data for January 2001, the restructuring of the electric power industry was taken into account by forming three schedules on the Form EIA-826. Schedule 1, Part A is for full service utilities that operate as in the past. Schedule 1, Part B is for electric service providers only, and Schedule 1, Part C is for those utilities providing distribution service for those on Schedule 1, Part B. In addition, Schedule 1 Part D is for those energy providers to ultimate consumers or power marketers that provide bundled service. Also, the Form EIA-826 frame was modified to include all investor-owned electric utilities and a sample of companies from other ownership classes. A new method of estimation was implemented at this same time. (See EPM April 2001, p.1.)

With the 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 estimates¹.

Some electric utilities provide service in more than one State. To facilitate the estimation, the State service area is actually used as the sampling unit. For each State served by each utility, there is a utility State part, or "State service area." This approach allows for an explicit calculation of estimates for sales, revenue, and average price of electricity to ultimate consumers by end use sector at State, Census division, and national level. Estimation procedures include imputation to account for nonresponse. Non-sampling error must also be considered. The non-sampling error is not estimated directly, although attempts are made to minimize the non-sampling error.

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

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric utility. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric utility operating revenues also include State and Federal income taxes and taxes other than income taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales within sectors and across sectors for all consumers, and does not reflect the per kWh rate charged by the electric utility to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric utility for providing electrical service.

Adjusting monthly data to annual data: As a final adjustment based on our most complete data, use is made of final Form EIA-861 data, when available. The annual totals for Form EIA-826 data by State and end-use sector are compared to the corresponding Form EIA-861 values for sales and revenue. The ratio of these two values in each case is then used to adjust each corresponding monthly value.

Sensitive data: Most of the data collected on the Form EIA-826 are not considered business sensitive. However, revenue, sales, and customer data collected from energy service providers (Schedule 1, Part B), which do not also provide energy delivery, are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Form EIA-860

The Form EIA 860, "Annual Electric Generator Report," is a mandatory annual census of all existing and planned electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts. The survey is used to collect data on existing power plants and 10 year plans for constructing new plants, as well as generating unit additions, modifications, and retirements in existing plants. Data on the survey are collected at the generator level. Certain power plant environmental-related data are collected at the boiler level. These data include environmental equipment design parameters, boiler air emission standards, and boiler emission controls The Form EIA-860 is made available in January to collect data related to the previous year.

Instrument and design history: The Form EIA-860 was originally implemented in January 1985 to collect data as of year-end 1984. It was preceded by several Federal Power Commission (FPC) forms including the FPC Form 4, Form 12 and 12E, Form 67, and Form EIA-411. In January 1999, the Form EIA-860 was renamed the Form EIA-860A, "Annual Electric Generator Report – Utility" and was implemented to collect data from electric utilities as of January 1, 1999.

In 1989, the Form EIA-867, "Annual Nonutility Power Producer Report," was initiated to collect plant data on unregulated entities with a total generator nameplate capacity of 5 or more megawatts. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. In 1998, the Form EIA-867, was renamed Form EIA-860B, "Annual Electric Generator Report – Nonutility." The Form EIA-860B was a mandatory survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts.

Beginning with data collected for the year 2001, the infrastructure data collected on the Form EIA-860A and the Form EIA-860B were combined into the new Form EIA-860 and the monthly and annual versions of the Form EIA-906.

Starting with 2007, design parameters data formerly collected on Form EIA-767 were collected on Form EIA-860. These include design parameters associated with certain steam-electric plants' boilers, cooling systems, flue gas particulate collectors, flue gas desulfurization units, and stacks and flues.

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

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

Prime Movers: The Form EIA-860 sometimes represents a generator's prime mover by using the abbreviations in the table below.

Prime Mover Code	Prime Mover Description
BA	Energy Storage, Battery
CE	Energy Storage, Compressed Air
CP	Energy Storage, Concentrated Solar Power
FW	Energy Storage, Flywheel
PS	Energy Storage, Reversible Hydraulic Turbine (Pumped Storage)
ES	Energy Storage, Other
ST	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)
GT	Combustion (Gas) Turbine (including jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part
CT	Combined Cycle Combustion Turbine Part
CS	Combined Cycle Single Shaft
CC	Combined Cycle Total Unit
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other
HY	Hydroelectric Turbine (including turbines associated with delivery of water by pipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermal applications)
PV	Photovoltaic
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
FC	Fuel Cell
OT	Other

Energy Sources: The Form EIA-860 sometimes represents the energy sources associated with generators by using the abbreviations and/or groupings in the table below.

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
Natural Gas and Other Gases	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)
	BFG	Blast Furnace Gas
	NG	Natural Gas
Nuclear	OG	Other Gas
	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
	(Prime Mover = HY)	
Hydroelectric Pumped Storage	WAT	Pumping Energy for Reversible (Pumped Storage) Hydroelectric
Wood and Wood-Derived Fuels	(Prime Mover = PS)	Turbine
	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
Other Energy Sources	GEO	Geothermal
	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 performed 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 waste²: 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 kilowatt-hour.

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:

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

x_{i2013} is the i^{th} utility’s 2013 (or the last published year) solar PV capacity

$y_{i2015,m}$ is the i^{th} utility’s month m , 2015 (or the current year) reported solar PV capacity

W_i is the weight factor, which is the inverse of x_{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

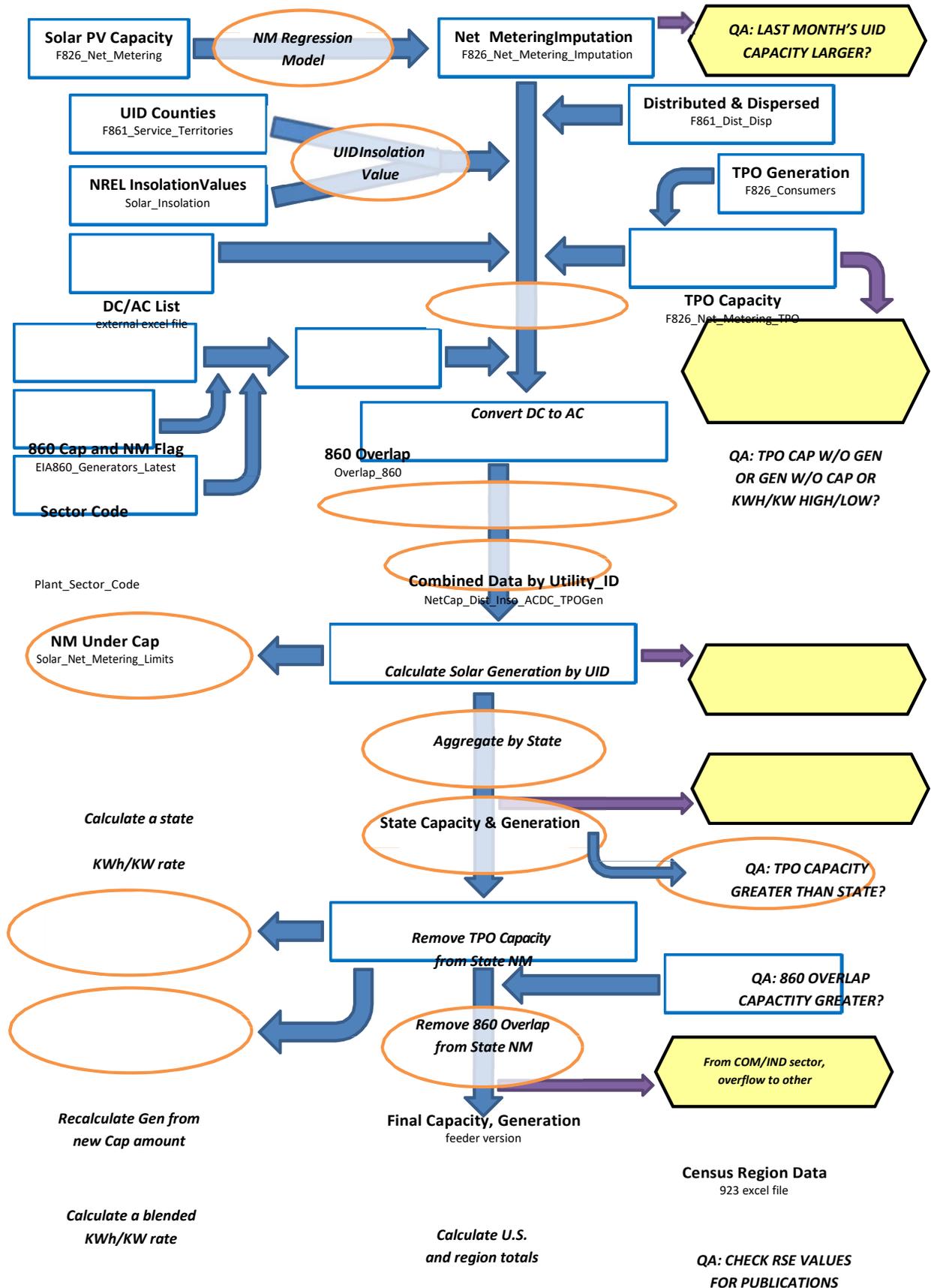
TMY3 (1991-2005) Weather Stations by MSA

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 Worcester 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 Worcester 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, PAMSA
97	USA OH Youngstown Regional Airport	Youngstown-Warren-Boardman, OH-PAMSA
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



¹The 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/>.

²See the following sources: Bahillo, A. et al. Journal of Energy Resources Technology, "NO_x and N₂O Emissions during Fluidized Bed Combustion of Leather Wastes." Volume 128, Issue 2, June 2006. pp. 99-103; U.S. Energy Information Administration. *Renewable Energy Annual 2004*. "Average Heat Content of Selected Biomass Fuels." Washington, DC, 2005; Penn State Agricultural College Agricultural and Biological Engineering and Council for Solid Waste Solutions. Garth, J. and Kowal, P. Resource Recovery, Turning Waste into Energy, University Park, PA, 1993; Utah State University Recycling Center Frequently Asked Questions. Published at <http://www.usu.edu/recycle/faq.htm>. Accessed December 2006.

³Biogenic 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, December 2022

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	25.70	6.00	--	1.03
Connecticut	--	5.81	--	1.03
Maine	19.06	5.83	--	1.05
Massachusetts	--	6.07	--	1.03
New Hampshire	26.18	5.94	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	20.85	6.01	--	1.04
New Jersey	--	6.13	--	1.04
New York	--	6.06	--	1.03
Pennsylvania	20.85	5.82	--	1.04
East North Central	20.40	5.78	27.49	1.05
Illinois	17.90	5.80	--	1.03
Indiana	22.35	5.76	--	1.06
Michigan	19.30	5.91	27.54	1.04
Ohio	24.75	5.76	--	1.06
Wisconsin	17.97	5.84	26.90	1.04
West North Central	16.40	5.80	--	1.06
Iowa	17.57	5.73	--	1.08
Kansas	16.97	5.76	--	1.03
Minnesota	17.73	5.88	--	1.08
Missouri	17.77	5.78	--	1.03
Nebraska	17.20	5.75	--	1.05
North Dakota	13.11	5.92	--	0.97
South Dakota	16.78	6.00	--	1.10
South Atlantic	23.66	5.85	28.94	1.03
Delaware	25.94	5.90	--	1.04
District of Columbia	--	--	--	--
Florida	23.40	5.77	28.94	1.03
Georgia	19.42	5.87	--	1.03
Maryland	23.71	5.81	--	1.04
North Carolina	25.20	5.80	--	1.03
South Carolina	24.71	5.92	--	1.03
Virginia	21.18	5.87	--	1.04
West Virginia	24.91	5.85	--	1.08
East South Central	20.39	5.80	--	1.03
Alabama	18.39	5.82	--	1.03
Kentucky	22.17	5.82	--	1.03
Mississippi	12.37	5.82	--	1.03
Tennessee	23.32	5.77	--	1.01
West South Central	16.05	5.93	28.55	1.02
Arkansas	17.69	5.83	--	1.03
Louisiana	17.77	--	28.55	1.03
Oklahoma	17.48	5.99	--	1.05
Texas	15.50	5.90	--	1.02
Mountain	18.58	5.80	--	1.05
Arizona	18.18	5.80	--	1.03
Colorado	18.45	5.81	--	1.08
Idaho	--	--	--	1.00
Montana	17.09	5.84	--	1.05
Nevada	19.43	5.82	--	1.06
New Mexico	18.45	--	--	1.03
Utah	21.72	5.71	--	1.06
Wyoming	17.66	5.79	--	1.06
Pacific Contiguous	18.48	6.10	--	1.05
California	23.18	--	--	1.04
Oregon	--	--	--	1.06
Washington	17.14	6.10	--	1.09
Pacific Noncontiguous	14.97	6.17	--	1.00
Alaska	14.97	5.60	--	1.00
Hawaii	--	6.17	--	--
U.S. Total	19.04	6.01	28.34	1.04

'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, 2019 through 2021

Item	Mean Absolute Value of Percent Change Total (All Sectors)		
	2019	2020	2021
Net Generation			
Coal	0.12%	0.12%	0.16%
Petroleum Liquids	1.89%	2.67%	5.45%
Petroleum Coke	5.53%	3.61%	2.93%
Natural Gas	1.30%	1.23%	0.29%
Other Gases	7.56%	6.01%	2.35%
Hydroelectric	6.37%	3.35%	3.89%
Nuclear	0.00%	0.01%	0.00%
Other	1.33%	1.12%	0.89%
Total	0.48%	0.46%	0.34%
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.16%	0.23%	0.16%
Petroleum Liquids	2.23%	2.39%	8.17%
Petroleum Coke	5.48%	8.51%	5.23%
Natural Gas	1.18%	1.19%	0.71%
Fuel Stocks for Electric Power Sector			
Coal	0.36%	0.56%	2.40%
Petroleum Liquids	0.32%	1.88%	5.16%
Petroleum Coke	1.78%	2.13%	0.48%
Sales of Electricity to Ultimate Customers			
Residential	0.36%	0.19%	0.40%
Commercial	0.46%	0.92%	0.29%
Industrial	5.27%	4.30%	1.39%
Transportation	0.81%	1.17%	0.92%
Total	1.65%	1.49%	0.31%
Revenue			
Residential	0.18%	0.13%	0.88%
Commercial	0.57%	0.38%	0.23%
Industrial	5.02%	4.43%	0.36%
Transportation	1.45%	0.90%	1.00%
Total	1.12%	0.77%	0.46%
Average Price of Electricity to Ultimate Customers			
Residential	0.18%	0.30%	0.47%
Commercial	0.13%	0.55%	0.50%
Industrial	0.30%	0.19%	1.17%
Transportation	0.64%	0.47%	0.61%
Total	0.52%	0.70%	0.77%
Receipt of Fossil Fuels			
Coal	0.93%	1.01%	1.15%
Petroleum Liquids	2.66%	5.52%	14.97%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	8.35%	8.15%	8.03%
Cost of Fossil Fuels			
Coal	0.13%	0.26%	0.21%
Petroleum Liquids	0.29%	1.32%	1.80%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	0.19%	0.38%	3.42%

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 changes.

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, 2019 through 2021

Item	2019			2020			2021		
	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	966,148	964,957	-0.12%	773,805	773,393	-0.05%	898,679	897,885	-0.09%
Petroleum Liquids	11,576	11,522	-0.47%	9,877	9,662	-2.18%	11,315	11,665	3.10%
Petroleum Coke	6,991	6,819	-2.46%	7,618	7,679	0.80%	7,467	7,511	0.58%
Natural Gas	1,581,815	1,588,533	0.42%	1,616,748	1,626,790	0.62%	1,575,230	1,579,361	0.26%
Other Gases	13,634	12,591	-7.65%	11,182	11,818	5.69%	11,283	11,397	1.01%
Hydroelectric	268,447	282,613	5.28%	285,790	279,953	-2.04%	255,113	246,473	-3.39%
Nuclear	809,409	809,409	0.00%	789,919	789,879	-0.01%	778,152	778,188	0.00%
Other	460,030	454,130	-1.28%	514,146	510,593	-0.69%	578,302	575,822	-0.43%
Total	4,118,051	4,130,574	0.30%	4,009,085	4,009,767	0.02%	4,115,540	4,108,303	-0.18%
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	538,465	537,620	-0.16%	436,076	435,351	-0.17%	500,592	500,298	-0.06%
Petroleum Liquids (1,000 barrels)	20,430	20,836	1.99%	18,191	18,008	-1.00%	20,676	21,634	4.63%
Petroleum Coke (1,000 tons)	2,806	2,724	-2.94%	2,866	3,077	7.35%	2,940	3,070	4.41%
Natural Gas (1,000 Mcf)	11,550,825	11,612,858	0.54%	11,887,895	11,928,104	0.34%	11,550,818	11,503,839	-0.41%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	128,497	128,102	-0.31%	132,723	131,431	-0.97%	94,654	91,884	-2.93%
Petroleum Liquids (1,000 barrels)	25,976	25,960	-0.06%	25,547	26,063	2.02%	23,446	26,003	10.91%
Petroleum Coke (1,000 tons)	443	471	6.35%	298	298	-0.10%	302	302	0.00%
Retail Sales (Million kWh)									
Residential	1,435,147	1,440,289	0.36%	1,461,958	1,464,605	0.18%	1,476,569	1,470,487	-0.41%
Commercial	1,354,545	1,360,877	0.47%	1,275,718	1,287,440	0.92%	1,324,782	1,328,439	0.28%
Industrial	952,149	1,002,353	5.27%	919,533	959,082	4.30%	986,797	1,000,613	1.40%
Transportation	7,697	7,632	-0.84%	6,532	6,548	0.24%	6,392	6,334	-0.90%
Total	3,749,538	3,811,150	1.64%	3,663,741	3,717,674	1.47%	3,794,539	3,805,874	0.30%
Revenue (Million Dollars)									
Residential	187,102	187,436	0.18%	192,934	192,663	-0.14%	202,632	200,834	-0.89%
Commercial	144,452	145,280	0.57%	135,860	136,372	0.38%	149,328	149,008	-0.21%
Industrial	65,033	68,285	5.00%	61,246	63,956	4.42%	71,682	71,835	0.21%
Transportation	749	737	-1.54%	646	648	0.30%	653	646	-0.98%
Total	397,337	401,738	1.11%	390,686	393,639	0.76%	424,295	422,323	-0.46%
Average Retail Price (Cents/kWh)									
Residential	13.04	13.01	-0.18%	13.20	13.15	-0.32%	13.72	13.66	-0.48%
Commercial	10.66	10.68	0.10%	10.65	10.59	-0.54%	11.27	11.22	-0.49%
Industrial	6.83	6.81	-0.26%	6.66	6.67	0.12%	7.26	7.18	-1.17%
Transportation	9.73	9.66	-0.70%	9.90	9.90	0.06%	10.21	10.20	-0.09%
Total	10.60	10.54	-0.53%	10.66	10.59	-0.71%	11.18	11.10	-0.76%
Receipt of Fossil Fuels									
Coal (1,000 tons)	555,022	560,153	0.92%	435,213	439,636	1.02%	456,033	461,277	1.15%
Petroleum Liquids (1,000 barrels)	14,319	14,711	2.74%	12,178	12,864	5.63%	14,198	16,295	14.77%
Petroleum Coke (1,000 tons)	1,969	1,969	0.00%	2,396	2,396	0.00%	2,296	2,296	0.00%
Natural Gas (1,000 Mcf)	10,786,472	11,704,743	8.51%	11,067,675	11,981,552	8.26%	10,688,997	11,566,909	8.21%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.02	2.02	-0.21%	1.92	1.92	-0.24%	1.98	1.98	-0.26%
Petroleum Liquids (1,000 barrels)	13.58	13.62	0.29%	9.63	9.76	1.29%	14.50	14.71	1.41%
Petroleum Coke (1,000 tons)	1.91	1.91	0.00%	1.70	1.70	0.00%	3.16	3.16	0.00%
Natural Gas (1,000 Mcf)	2.89	2.88	-0.21%	2.39	2.40	0.21%	4.97	5.20	4.54%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.

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

Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.

Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.

Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Fuel Stocks are end-of-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 kilowatt-hour 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 2021 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 earth's 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 through 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.

Watt-hour (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.