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Preface

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

Background

The Office of 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."

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Executive Summary

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Net Generation and Consumption of Fuels for October														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	54,049	62,572	-13.6%	40,970	45,722	12,650	16,402	26	29	403	419	0	0
Petroleum Liquids	Utility Scale Facilities	991	895	10.7%	754	690	201	166	6	7	30	32	0	0
Petroleum Coke	Utility Scale Facilities	574	655	-12.4%	440	514	103	112	0	1	31	29	0	0
Natural Gas	Utility Scale Facilities	133,040	131,860	0.9%	64,148	62,206	60,493	61,119	537	603	7,862	7,933	0	0
Other Gas	Utility Scale Facilities	985	1,062	-7.3%	0	0	274	343	0	0	711	719	0	0
Nuclear	Utility Scale Facilities	58,945	56,945	3.5%	32,085	33,066	26,860	23,879	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	14,640	17,133	-14.5%	13,361	15,383	1,204	1,657	NM	17	59	76	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	50,417	47,077	7.1%	8,219	7,660	40,092	37,075	284	292	1,821	2,050	0	0
... Wind	Utility Scale Facilities	32,825	32,215	1.9%	6,352	6,142	26,450	26,049	12	15	10	9	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	12,187	9,268	31.5%	1,468	1,155	10,633	8,055	61	45	24	12	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	2,649	2,835	-6.6%	228	182	695	680	6	12	1,720	1,960	0	0
... Other Biomass	Utility Scale Facilities	1,412	1,440	-2.0%	90	93	1,083	1,107	173	172	67	68	0	0
... Geothermal	Utility Scale Facilities	1,344	1,319	1.9%	82	88	1,231	1,183	32	48	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-434	-427	1.8%	-370	-333	-64	-93	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	842	982	-14.2%	29	43	464	535	95	90	254	313	0	0
All Energy Sources	Utility Scale Facilities	314,048	318,754	-1.5%	159,636	164,951	142,278	141,193	964	1,040	11,170	11,571	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	5,049	3,821	32.1%	0	0	0	0	1,363	1,194	337	319	3,349	2,308
Estimated Total Solar Photovoltaic	All Facilities	16,946	12,866	31.7%	1,468	1,154	10,344	7,834	1,424	1,239	361	331	3,349	2,308
Estimated Total Solar	All Facilities	17,235	13,089	31.7%	1,468	1,155	10,633	8,055	1,424	1,239	361	331	3,349	2,308
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	31,357	35,574	-11.9%	23,314	25,681	7,907	9,746	7	9	128	138	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,827	1,655	10.4%	1,460	1,317	321	280	13	23	33	34	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	240	262	-8.4%	192	202	38	49	0	0	10	10	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	972,892	962,806	1.0%	491,295	474,461	430,349	436,157	3,298	3,768	47,950	48,420	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	970	889	9.2%	172	152	48	37	37	37	713	663	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	170	174	-1.9%	8	7	32	19	15	25	116	124	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	64	58	9.2%	1	1	12	5	0	1	51	51	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	96,222	99,445	-3.2%	3,746	3,156	24,430	25,485	5,121	5,702	62,925	65,102	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	32,328	36,462	-11.3%	23,486	25,833	7,955	9,783	45	46	842	800	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,998	1,828	9.3%	1,468	1,323	353	299	28	48	149	158	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	304	321	-5.2%	193	204	50	54	0	1	61	62	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,069,114	1,062,252	0.6%	495,041	477,617	454,779	461,642	8,419	9,471	110,875	113,522	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	88,543	82,674	7.1%	74,019	68,087	14,070	13,792	59	99	395	696	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	24,542	26,137	-6.1%	14,524	14,890	8,516	9,489	342	392	1,159	1,365	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	560	438	27.8%	344	326	7	13	2	3	207	96	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for October									
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)		
	October 2022	October 2021	Percentage Change	October 2022	October 2021	Percentage Change	October 2022	October 2021	Percentage Change
Residential	100,558	103,992	-3.3%	16,177	14,619	10.7%	16.09	14.06	14.4%
Commercial	110,225	112,246	-1.8%	14,368	12,927	11.1%	13.04	11.52	13.2%
Industrial	83,990	85,356	-1.6%	7,229	6,349	13.9%	8.61	7.44	15.7%
Transportation	532	533	-0.1%	63	55	14.9%	11.79	10.25	15.0%
All Sectors	295,305	302,127	-2.3%	37,838	33,950	11.5%	12.81	11.24	14.0%

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 October														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	699,540	780,548	-10.4%	523,611	589,166	171,228	186,767	227	234	4,475	4,381	0	0
Petroleum Liquids	Utility Scale Facilities	11,522	9,810	17.5%	7,666	7,455	3,460	1,937	70	79	326	339	0	0
Petroleum Coke	Utility Scale Facilities	5,695	6,136	-7.2%	4,301	4,676	1,080	1,150	8	1	306	309	0	0
Natural Gas	Utility Scale Facilities	1,422,365	1,329,226	7.0%	700,820	655,567	635,756	588,861	6,186	6,141	79,602	78,658	0	0
Other Gas	Utility Scale Facilities	9,878	9,597	2.9%	0	12	2,933	2,880	0	0	6,944	6,705	0	0
Nuclear	Utility Scale Facilities	640,402	644,719	-0.7%	355,987	355,101	284,415	289,618	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	221,447	208,650	6.1%	203,837	189,681	16,627	17,969	249	217	735	783	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	541,749	462,393	17.2%	84,809	71,206	433,075	366,988	3,058	2,989	20,806	21,210	0	0
... Wind	Utility Scale Facilities	353,609	302,597	16.9%	64,657	55,017	288,709	247,357	140	135	103	88	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	129,542	101,372	27.8%	15,645	12,037	113,032	88,686	634	531	231	118	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	30,488	30,439	0.2%	2,774	2,333	7,731	7,625	152	125	19,831	20,357	0	0
... Other Biomass	Utility Scale Facilities	14,139	14,860	-4.8%	888	1,000	10,907	11,416	1,703	1,796	642	648	0	0
... Geothermal	Utility Scale Facilities	13,971	13,125	6.5%	845	819	12,697	11,905	430	401	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-4,984	-4,289	16.2%	-3,916	-3,237	-1,068	-1,052	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	9,320	10,098	-7.7%	267	420	4,973	5,394	973	1,002	3,106	3,282	0	0
All Energy Sources	Utility Scale Facilities	3,556,933	3,456,887	2.9%	1,877,382	1,870,046	1,552,479	1,460,511	10,771	10,662	116,301	115,667	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	52,614	42,935	22.5%	0	0	0	0	15,378	13,284	3,590	3,393	33,645	26,258
Estimated Total Solar Photovoltaic	All Facilities	179,402	141,663	26.6%	15,617	12,010	110,306	86,069	16,013	13,816	3,821	3,511	33,645	26,258
Estimated Total Solar	All Facilities	182,157	144,307	26.2%	15,645	12,037	113,032	88,686	16,013	13,816	3,821	3,511	33,645	26,258
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	395,088	433,110	-8.8%	293,640	324,341	99,944	107,318	70	72	1,434	1,379	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	20,527	18,174	12.9%	14,450	14,241	5,539	3,356	182	212	357	365	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,338	2,498	-6.4%	1,839	1,889	395	503	2	0	101	106	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	10,447,049	9,706,369	7.6%	5,349,424	4,964,590	4,570,814	4,220,513	37,374	38,039	489,437	483,226	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	9,757	9,358	4.3%	1,832	1,776	616	557	342	363	6,967	6,662	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,887	1,739	8.6%	94	68	277	227	321	280	1,196	1,164	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	608	638	-4.8%	17	14	104	96	11	2	475	526	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,001,594	1,012,630	-1.1%	42,917	40,432	262,538	255,993	56,576	59,054	639,563	657,151	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	404,845	442,468	-8.5%	295,472	326,118	100,560	107,875	411	435	8,402	8,040	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	22,415	19,913	12.6%	14,544	14,309	5,815	3,583	502	492	1,553	1,529	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,945	3,137	-6.1%	1,856	1,904	499	599	14	3	576	631	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	11,448,643	10,718,999	6.8%	5,392,341	5,005,022	4,833,352	4,476,506	93,950	97,093	1,129,000	1,140,378	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through October									
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)		
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	Percentage Change
Residential	1,284,359	1,252,200	2.6%	193,939	170,533	13.7%	15.10	13.62	10.9%
Commercial	1,156,283	1,118,418	3.4%	145,193	125,444	15.7%	12.56	11.22	11.9%
Industrial	846,560	835,413	1.3%	71,646	59,919	19.6%	8.46	7.17	18.0%
Transportation	5,453	5,322	2.5%	634	540	17.4%	11.63	10.15	14.6%
All Sectors	3,292,653	3,211,353	2.5%	411,412	356,436	15.4%	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)	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
Coal (1000 tons)	40,673	38,598	46.78	38.39	205	229	389,511	382,443	44.22	37.24
Petroleum Liquids (1000 barrels)	1,353	1,363	142.09	97.98	104	200	13,426	13,237	144.73	84.48
Petroleum Coke (1000 tons)	147	170	94.92	85.94	5	4	1,871	1,915	125.13	83.76
Natural Gas (1000 Mcf)	909,300	971,395	6.03	5.88	576	792	9,678,095	9,739,846	7.40	5.28

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)	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
Coal (1000 tons)	30,251	28,034	48.36	39.62	149	158	288,053	281,049	45.32	38.54
Petroleum Liquids (1000 barrels)	978	893	144.78	98.09	74	133	9,419	9,609	148.20	84.48
Petroleum Coke (1000 tons)	144	170	94.31	85.94	4	4	1,868	1,915	125.13	83.76
Natural Gas (1000 Mcf)	439,311	463,507	6.45	6.14	297	428	4,741,439	4,831,889	7.72	5.27

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)	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
Coal (1000 tons)	9,879	10,015	40.51	34.18	42	55	95,834	95,828	40.22	32.75
Petroleum Liquids (1000 barrels)	338	438	137.75	99.17	21	59	3,720	3,304	138.14	85.18
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	407,766	440,569	5.48	5.55	233	316	4,276,010	4,266,402	7.07	5.42

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)	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
Coal (1000 tons)	2	3	97.11	71.01	1	1	11	9	94.75	69.14
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	634	724	4.12	3.89	3	3	6,866	6,944	4.11	3.47

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)	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
Coal (1000 tons)	541	547	72.50	51.94	13	15	5,613	5,557	55.61	48.90
Petroleum Liquids (1000 barrels)	36	32	109.96	78.52	9	8	287	324	110.80	77.57
Petroleum Coke (1000 tons)	3	0	124.88	--	1	0	3	0	124.88	--
Natural Gas (1000 Mcf)	61,589	66,595	6.08	5.92	43	45	653,780	634,612	6.92	4.65

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	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021		
Coal	768,977	730,391	2.47	2.03	205	229	7,377,286	7,267,188	2.33	1.96		
Petroleum Liquids	8,273	8,129	23.24	16.43	104	200	81,217	79,347	23.91	14.09		
Petroleum Coke	4,142	4,814	3.37	3.03	5	4	52,905	54,152	4.42	2.96		
Natural Gas	939,026	1,003,312	5.84	5.70	576	792	9,985,845	10,066,860	7.17	5.11		
Fossil Fuels	1,720,418	1,746,646	4.34	4.13	695	940	17,497,253	17,467,547	5.09	3.76		

Electric Utilities												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021		
Coal	575,544	533,631	2.54	2.08	149	158	5,489,525	5,369,969	2.38	2.02		
Petroleum Liquids	5,983	5,386	23.67	16.27	74	133	57,190	58,083	24.41	13.98		
Petroleum Coke	4,060	4,814	3.35	3.03	4	4	52,823	54,152	4.42	2.96		
Natural Gas	453,102	478,144	6.26	5.96	297	428	4,886,268	4,990,970	7.49	5.10		
Fossil Fuels	1,038,690	1,021,975	4.28	3.96	384	529	10,485,806	10,473,175	4.88	3.55		

Independent Power Producers												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021		
Coal	182,236	185,243	2.19	1.85	42	55	1,771,919	1,780,933	2.17	1.76		
Petroleum Liquids	2,067	2,546	22.55	17.07	21	59	22,260	19,273	23.04	14.60		
Petroleum Coke	0	0	--	--	0	0	0	0	--	--		
Natural Gas	421,811	455,974	5.29	5.36	233	316	4,420,900	4,415,895	6.83	5.23		
Fossil Fuels	606,114	643,763	4.29	4.27	263	361	6,215,078	6,216,102	5.35	4.11		

Commercial Sector												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021		
Coal	54	60	4.28	3.09	1	1	253	202	4.16	3.01		
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--		
Petroleum Coke	0	0	--	--	0	0	0	0	--	--		
Natural Gas	657	753	3.98	3.74	3	3	7,130	7,223	3.96	3.34		
Fossil Fuels	711	813	4.00	3.69	3	3	7,383	7,425	3.97	3.33		

Industrial Sector												
Fuel	Receipts						Cost					
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)		Year-to-Date	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021		
Coal	11,143	11,456	3.52	2.48	13	15	115,590	116,083	2.70	2.34		
Petroleum Liquids	223	197	17.89	12.68	9	8	1,766	1,990	18.01	12.62		
Petroleum Coke	82	0	4.46	--	1	0	82	0	4.46	--		
Natural Gas	63,456	68,441	5.90	5.76	43	45	671,547	652,773	6.74	4.52		
Fossil Fuels	74,903	80,095	5.58	5.31	45	47	788,985	770,846	6.17	4.22		

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-October 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
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
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	36,602	-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	87,471	3,002	537	135,743	984	70,577	26,288	8,158	44,208	-493	1,018	377,493	3,327	11,352	11,485
February	70,735	1,021	625	115,578	837	61,852	22,971	9,312	43,603	-412	892	327,015	3,659	12,812	12,971
March	60,732	966	463	112,019	896	63,154	25,462	11,868	48,838	-318	971	325,052	5,025	16,637	16,893
April	55,017	745	496	105,847	914	55,290	19,559	13,438	51,371	-265	941	303,352	5,534	18,651	18,973
May	62,214	861	667	127,729	1,061	63,382	23,091	15,161	47,523	-467	961	342,183	6,084	20,874	21,245
June	73,297	912	665	156,307	998	65,715	26,884	15,953	39,530	-589	945	380,617	6,097	21,678	22,050
July	86,238	1,004	482	190,342	1,134	68,857	24,106	15,686	35,660	-768	978	423,718	6,311	21,708	21,996
August	84,985	1,022	564	189,201	1,020	68,897	21,617	14,375	30,570	-640	923	412,534	6,074	20,169	20,449
Sept	64,802	996	623	156,559	1,049	63,733	16,828	13,405	32,675	-598	848	350,920	5,455	18,575	18,860
October	54,049	991	574	133,040	985	58,945	14,640	12,187	38,230	-434	842	314,048	5,049	16,946	17,235
Year to Date															
2020	633,623	7,922	6,317	1,389,116	9,869	658,248	242,873	78,341	331,496	-4,584	10,620	3,363,840	36,347	111,810	114,687
2021	780,548	9,810	6,136	1,329,226	9,597	644,719	208,650	101,372	361,020	-4,289	10,098	3,456,887	42,935	141,663	144,307
2022	699,540	11,522	5,695	1,422,365	9,878	640,402	221,447	129,542	412,207	-4,984	9,320	3,556,933	52,614	179,402	182,157
Rolling 12 Months Ending in October															
2021	920,318	11,549	7,499	1,566,900	11,546	776,350	251,050	112,230	438,064	-5,026	12,333	4,102,813	48,111	157,442	160,341
2022	816,877	13,378	7,070	1,672,500	11,678	773,871	264,382	143,428	499,610	-5,807	11,362	4,208,349	58,844	199,237	202,272

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-October 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	3,269	41,124	11,543	6,951	3,115	15,927	300,333	686,583	23,990	74,008	77,277
2018	272,667	60,234	3,592	40,936	11,036	7,136	2,724	15,967	292,524	706,816	29,539	89,773	93,365
2019	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
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	269	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	38,084	8,025	133	3,089	783	494	192	1,566	26,288	78,655	3,327	11,352	11,485
February	37,992	9,153	159	2,981	714	433	172	1,310	22,971	75,886	3,659	12,812	12,971
March	43,016	11,612	256	3,012	775	467	192	1,376	25,462	86,168	5,025	16,637	16,893
April	45,930	13,117	322	2,731	726	483	168	1,333	19,559	84,367	5,534	18,651	18,973
May	41,645	14,789	371	3,052	773	493	176	1,384	23,091	85,775	6,084	20,874	21,245
June	33,479	15,581	372	3,244	765	500	177	1,365	26,884	82,366	6,097	21,678	22,050
July	29,269	15,397	288	3,483	769	512	189	1,438	24,106	75,452	6,311	21,708	21,996
August	24,345	14,096	279	3,356	751	500	177	1,442	21,617	66,561	6,074	20,169	20,449
Sept	27,024	13,120	285	2,892	718	471	158	1,412	16,828	62,907	5,455	18,575	18,860
October	32,825	11,897	290	2,649	748	475	189	1,344	14,640	65,057	5,049	16,946	17,235
Year to Date													
2020	272,798	75,463	2,878	30,119	8,579	5,057	1,855	13,088	242,873	652,710	36,347	111,810	114,687
2021	302,597	98,729	2,644	30,439	7,895	5,088	1,876	13,125	208,650	671,042	42,935	141,663	144,307
2022	353,609	126,787	2,755	30,488	7,522	4,828	1,789	13,971	221,447	763,196	52,614	179,402	182,157
Rolling 12 Months Ending in October													
2021	367,737	109,331	2,899	36,539	9,529	6,111	2,222	15,926	251,050	801,344	48,111	157,442	160,341
2022	429,209	140,394	3,035	36,511	9,048	5,841	2,180	16,821	264,382	907,421	58,844	199,237	202,272

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

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

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

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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-October 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
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	63,848	1,308	388	66,928	0	39,295	24,259	1,084	8,162	-420	34	204,885
February	50,808	682	453	55,498	0	34,300	20,998	1,199	7,994	-301	31	171,662
March	42,878	730	324	54,221	0	34,385	23,079	1,536	8,518	-214	34	165,491
April	39,965	571	361	51,529	0	30,252	17,532	1,707	8,548	-164	30	150,331
May	47,855	694	503	62,736	0	35,037	21,215	1,838	7,446	-375	32	176,980
June	56,873	702	545	79,487	0	36,908	25,046	1,820	6,043	-460	19	206,984
July	66,548	727	388	96,153	0	38,888	22,769	1,804	5,178	-623	20	231,854
August	64,288	734	421	94,121	0	38,921	20,118	1,708	4,837	-495	20	224,672
Sept	49,577	764	480	75,998	0	35,914	15,460	1,481	5,687	-493	19	184,887
October	40,970	754	440	64,148	0	32,085	13,361	1,468	6,751	-370	29	159,636
Year to Date												
2020	481,196	5,950	4,647	697,382	46	358,353	225,407	8,559	47,808	-3,757	504	1,826,096
2021	589,166	7,455	4,676	655,567	12	355,101	189,681	12,037	59,169	-3,237	420	1,870,046
2022	523,611	7,666	4,301	700,820	0	355,987	203,837	15,645	69,165	-3,916	267	1,877,382
Rolling 12 Months Ending in October												
2021	690,344	8,687	5,692	773,598	11	425,701	228,924	13,423	71,157	-3,805	534	2,214,267
2022	609,249	9,001	5,354	822,311	0	430,113	242,844	17,519	85,334	-4,556	355	2,217,524

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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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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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-October 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	236,847	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
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	19,782	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	23,138	1,638	116	59,314	278	31,282	1,917	7,017	33,617	-73	528	158,774
February	19,484	297	135	51,877	235	27,552	1,873	8,049	33,413	-111	461	143,265
March	17,362	201	NM	49,122	256	28,768	2,273	10,253	37,988	-103	492	146,722
April	14,623	142	107	46,500	280	25,037	1,930	11,642	40,564	-101	503	141,227
May	13,868	131	127	56,795	371	28,345	1,771	13,225	37,714	-92	503	152,759
June	15,939	171	91	68,497	285	28,807	1,730	14,029	31,091	-129	508	161,021
July	19,194	235	64	85,073	358	29,969	1,242	13,781	27,999	-146	528	178,298
August	20,188	250	112	85,861	278	29,976	1,400	12,572	23,312	-145	506	174,312
Sept	14,781	193	112	72,224	316	27,819	1,286	11,831	24,886	-105	478	153,823
October	12,650	201	103	60,493	274	26,860	1,204	10,633	29,459	-64	464	142,278
Year to Date												
2020	147,657	1,565	1,250	604,731	2,485	299,895	16,433	69,170	259,532	-827	5,798	1,407,688
2021	186,767	1,937	1,150	588,861	2,880	289,618	17,969	88,686	278,302	-1,052	5,394	1,460,511
2022	171,228	3,460	1,080	635,756	2,933	284,415	16,627	113,032	320,043	-1,068	4,973	1,552,479
Rolling 12 Months Ending in October												
2021	224,438	2,357	1,404	691,015	3,524	350,648	20,945	98,083	338,404	-1,221	6,566	1,736,163
2022	201,983	3,904	NM	746,613	3,345	343,758	20,361	124,959	386,524	-1,251	6,028	1,837,565

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.

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Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2012-October 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
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	1,022	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	657	0	0	29	43	271	0	100	1,145	994	1,037	1,037
February	18	6	1	569	0	0	25	47	234	0	85	984	1,095	1,142	1,142
March	18	5	1	588	0	0	NM	58	254	0	101	1,051	1,495	1,554	1,554
April	12	5	1	547	0	0	NM	66	248	0	104	1,004	1,635	1,701	1,701
May	13	6	1	572	0	0	NM	71	251	0	100	1,042	1,786	1,857	1,857
June	26	8	1	615	0	0	NM	76	242	0	104	1,102	1,792	1,868	1,868
July	25	7	1	721	0	0	31	74	238	0	97	1,194	1,862	1,936	1,936
August	30	8	0	729	0	0	NM	70	244	0	97	1,204	1,771	1,841	1,841
Sept	29	5	0	651	0	0	19	68	221	0	88	1,081	1,585	1,653	1,653
October	26	6	0	537	0	0	NM	61	223	0	95	964	1,363	1,424	1,424
Year to Date															
2020	195	79	2	6,840	0	0	182	522	2,310	0	860	10,990	11,281	11,803	11,803
2021	234	79	1	6,141	0	0	217	531	2,457	0	1,002	10,662	13,284	13,816	13,816
2022	227	70	8	6,186	0	0	249	634	2,424	0	973	10,771	15,378	16,013	16,013
Rolling 12 Months Ending in October															
2021	280	97	1	7,411	0	0	249	595	2,909	0	1,177	12,718	14,862	15,458	15,458
2022	273	NM	11	7,392	0	0	NM	701	2,945	0	1,180	12,876	17,218	17,920	17,920

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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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-October 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	
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	7,604	654	0	67	6	2,174	0	370	11,370	226	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	8,843	706	0	83	14	2,158	0	355	12,688	231	246	246	
February	427	36	35	7,634	602	0	75	16	1,963	0	315	11,104	246	262	262	
March	474	30	NM	8,089	640	0	86	21	2,078	0	343	11,787	350	372	372	
April	416	27	27	7,271	633	0	76	24	2,010	0	304	10,790	379	403	403	
May	478	NM	36	7,626	690	0	78	27	2,113	0	326	11,402	416	443	443	
June	458	31	27	7,708	713	0	77	28	2,154	0	315	11,510	416	444	444	
July	471	35	30	8,395	775	0	64	27	2,244	0	331	12,374	429	456	456	
August	479	30	31	8,489	742	0	73	25	2,177	0	300	12,346	415	440	440	
Sept	414	35	30	7,686	733	0	63	24	1,881	0	263	11,129	372	396	396	
October	403	30	31	7,862	711	0	59	24	1,797	0	254	11,170	337	361	361	
Year to Date																
2020	4,576	328	417	80,162	7,338	0	852	90	21,846	0	3,457	119,067	3,055	3,145	3,145	
2021	4,381	339	309	78,658	6,705	0	783	118	21,092	0	3,282	115,667	3,393	3,511	3,511	
2022	4,475	326	306	79,602	6,944	0	735	231	20,575	0	3,106	116,301	3,590	3,821	3,821	
Rolling 12 Months Ending in October																
2021	5,256	409	402	94,876	8,011	0	932	129	25,594	0	4,055	139,665	3,822	3,952	3,952	
2022	5,372	NM	NM	96,185	8,333	0	888	249	24,808	0	3,799	140,384	4,055	4,305	4,305	

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-October 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
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		2,102
February		2,318
March		3,179
April		3,521
May		3,882
June		3,889
July		4,019
August		3,888
Sept		3,499
October		3,349
Year to Date		
2020		22,010
2021		26,258
2022		33,645
Rolling 12 Months Ending in October		
2021		29,426
2022		37,570

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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	7,500	7,413	1.2%	78	122	7,183	6,999	80	93	159	200
Connecticut	3,532	2,972	18.9%	5	10	3,464	2,895	22	25	41	42
Maine	724	882	-17.9%	0	0	624	754	9	10	91	118
Massachusetts	1,150	1,473	-22.0%	32	34	1,063	1,374	41	48	13	17
New Hampshire	1,443	782	84.5%	NM	1	1,434	773	6	5	2	3
Rhode Island	528	1,135	-53.5%	0	0	514	1,111	2	4	NM	19
Vermont	123	169	-27.0%	40	77	83	92	0	0	0	0
Middle Atlantic	31,479	32,337	-2.7%	2,477	2,771	28,421	29,075	152	164	429	326
New Jersey	4,508	5,173	-12.9%	NM	19	4,401	5,070	45	48	43	37
New York	9,390	9,733	-3.5%	2,450	2,747	6,799	6,836	80	84	61	65
Pennsylvania	17,582	17,431	0.9%	7	6	17,221	17,169	28	32	325	225
East North Central	44,697	45,255	-1.2%	14,843	15,621	28,955	28,697	134	151	764	786
Illinois	14,464	13,517	7.0%	310	374	13,949	12,941	30	44	175	158
Indiana	6,852	6,635	3.3%	3,798	3,912	2,729	2,358	18	24	306	341
Michigan	10,039	9,697	3.5%	6,988	6,807	2,882	2,730	56	51	114	109
Ohio	9,425	10,897	-13.5%	1,044	781	8,303	10,030	19	22	60	64
Wisconsin	3,917	4,510	-13.1%	2,703	3,748	1,093	637	11	10	109	114
West North Central	27,390	28,600	-4.2%	19,633	21,218	7,433	6,978	53	60	272	345
Iowa	5,314	5,605	-5.2%	4,164	4,668	952	737	17	13	181	187
Kansas	3,969	4,267	-7.0%	2,114	2,339	1,847	1,904	NM	1	6	23
Minnesota	4,618	4,583	0.8%	3,179	3,298	1,371	1,172	18	27	50	87
Missouri	5,744	6,138	-6.4%	5,145	5,567	579	552	16	17	3	3
Nebraska	2,845	3,158	-9.9%	1,786	2,264	1,042	869	1	2	16	23
North Dakota	3,561	3,574	-0.4%	2,679	2,531	872	1,026	0	0	NM	17
South Dakota	1,339	1,274	5.1%	566	551	770	717	NM	0	NM	6
South Atlantic	59,105	61,187	-3.4%	47,671	49,087	9,984	10,559	117	115	1,333	1,427
Delaware	446	218	104.7%	3	1	347	154	NM	1	96	62
District of Columbia	13	16	-16.7%	0	0	2	2	11	14	0	0
Florida	20,372	20,415	-0.2%	18,929	18,853	1,072	1,165	38	24	334	372
Georgia	8,985	9,671	-7.1%	6,870	7,736	1,714	1,494	NM	0	401	440
Maryland	3,150	3,440	-8.4%	466	438	2,661	2,974	19	23	4	4
North Carolina	9,569	9,899	-3.3%	7,724	8,026	1,693	1,697	25	28	127	147
South Carolina	7,209	7,324	-1.6%	6,772	6,928	320	265	0	0	117	130
Virginia	6,355	6,762	-6.0%	4,950	5,331	1,225	1,251	24	23	156	157
West Virginia	3,005	3,444	-12.7%	1,957	1,774	950	1,556	0	0	98	113
East South Central	25,389	26,169	-3.0%	21,460	22,465	3,245	2,921	13	13	670	769
Alabama	10,402	11,732	-11.3%	7,209	8,669	2,873	2,641	0	0	320	421
Kentucky	4,482	4,723	-5.1%	4,434	4,657	9	15	0	0	40	52
Mississippi	4,717	4,924	-4.2%	4,350	4,638	233	166	0	0	134	119
Tennessee	5,788	4,790	20.8%	5,468	4,501	130	99	13	13	177	177
West South Central	57,643	59,593	-3.3%	17,289	18,528	34,270	34,928	69	71	6,015	6,066
Arkansas	4,292	4,762	-9.9%	3,732	4,011	470	657	NM	6	85	87
Louisiana	7,870	8,968	-12.2%	4,825	5,764	530	725	13	13	2,503	2,466
Oklahoma	6,086	6,452	-5.7%	2,531	2,608	3,491	3,762	0	0	63	82
Texas	39,395	39,412	0.0%	6,201	6,145	29,779	29,784	51	52	3,364	3,431
Mountain	29,892	28,573	4.6%	21,105	20,267	8,458	7,964	85	95	245	247
Arizona	8,540	8,531	0.1%	6,441	6,578	2,082	1,941	14	13	NM	0
Colorado	4,179	4,240	-1.4%	2,978	2,893	1,182	1,321	3	2	17	22
Idaho	1,094	1,104	-0.9%	592	585	454	466	6	6	42	47
Montana	2,091	2,028	3.1%	657	692	1,431	1,333	0	0	3	4
Nevada	3,583	3,147	13.8%	2,218	1,928	1,289	1,135	42	56	34	27
New Mexico	3,149	2,619	20.2%	1,913	1,585	1,225	1,025	10	9	1	0
Utah	3,083	3,331	-7.4%	2,640	2,936	409	370	10	9	24	15
Wyoming	4,173	3,573	16.8%	3,666	3,070	385	372	0	0	122	132
Pacific Contiguous	29,639	28,297	4.7%	14,145	14,004	14,032	12,702	205	212	1,257	1,379
California	17,375	16,176	7.4%	5,159	5,143	10,982	9,677	196	203	1,037	1,152
Oregon	4,278	4,439	-3.6%	2,560	2,826	1,666	1,568	7	7	45	38
Washington	7,986	7,682	4.0%	6,426	6,035	1,384	1,457	1	2	175	188
Pacific Noncontiguous	1,315	1,329	-1.1%	935	867	298	371	55	65	27	26
Alaska	449	534	-16.0%	397	474	19	22	23	30	10	9
Hawaii	866	795	8.9%	538	393	279	349	32	35	17	18
U.S. Total	314,048	318,754	-1.5%	159,636	164,951	142,278	141,193	964	1,040	11,170	11,571

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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 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	87,986	86,377	1.9%	1,259	1,277	83,782	81,992	957	953	1,989	2,155
Connecticut	35,905	36,306	-1.1%	59	93	35,122	35,429	247	257	477	528
Maine	9,644	8,945	7.8%	NM	1	8,354	7,563	88	81	1,201	1,299
Massachusetts	18,120	16,979	6.7%	502	427	16,933	15,866	519	513	166	173
New Hampshire	15,856	14,593	8.7%	NM	9	15,770	14,507	54	53	24	24
Rhode Island	6,792	7,825	-13.2%	0	0	6,624	7,649	47	47	121	130
Vermont	1,670	1,728	-3.4%	688	747	980	979	2	3	0	0
Middle Atlantic	358,134	358,077	0.0%	29,141	30,906	322,810	322,193	1,815	1,731	4,369	3,247
New Jersey	54,793	51,590	6.2%	224	189	53,570	50,476	581	532	418	392
New York	104,175	104,348	-0.2%	28,811	30,628	73,791	72,169	895	890	678	661
Pennsylvania	199,166	202,139	-1.5%	105	89	195,449	199,548	339	308	3,272	2,193
East North Central	501,355	487,809	2.8%	175,741	180,560	315,316	296,748	1,528	1,526	8,769	8,976
Illinois	157,487	150,624	4.6%	4,506	3,269	150,471	144,791	400	422	2,110	2,141
Indiana	80,769	80,913	-0.2%	50,973	53,468	25,910	23,412	203	212	3,683	3,821
Michigan	97,266	95,984	1.3%	67,070	67,595	28,454	26,682	592	556	1,151	1,152
Ohio	113,838	104,938	8.5%	12,839	12,067	100,192	92,054	215	220	592	598
Wisconsin	51,996	55,349	-6.1%	40,354	44,162	10,289	9,809	118	115	1,234	1,264
West North Central	313,983	295,887	6.1%	233,356	227,104	76,835	65,024	640	558	3,152	3,201
Iowa	57,955	55,364	4.7%	46,725	46,582	9,280	6,959	157	118	1,792	1,706
Kansas	53,066	46,859	13.2%	30,277	27,486	22,658	19,167	13	13	118	194
Minnesota	50,043	48,472	3.2%	35,483	34,982	13,506	12,412	285	247	770	831
Missouri	65,929	64,214	2.7%	60,237	58,912	5,483	5,102	170	165	39	35
Nebraska	33,600	31,301	7.3%	23,435	23,563	9,882	7,461	15	15	267	262
North Dakota	37,406	35,385	5.7%	28,443	27,670	8,837	7,585	0	0	127	130
South Dakota	15,982	14,291	11.8%	8,755	7,910	7,189	6,339	NM	0	38	43
South Atlantic	680,288	679,078	0.2%	552,612	559,408	112,223	103,603	1,173	1,314	14,281	14,753
Delaware	4,357	3,465	25.7%	54	24	3,420	2,684	6	5	877	752
District of Columbia	150	178	-15.7%	0	0	26	16	123	162	0	0
Florida	219,612	211,014	4.1%	203,356	196,727	12,238	9,959	333	361	3,686	3,967
Georgia	106,207	104,882	1.3%	83,703	87,752	18,289	12,873	6	3	4,208	4,255
Maryland	31,701	32,098	-1.2%	3,636	2,852	27,807	29,012	216	195	42	40
North Carolina	111,194	109,169	1.9%	91,093	90,636	18,427	16,786	238	314	1,436	1,433
South Carolina	83,903	83,370	0.6%	78,358	78,766	4,103	3,276	0	2	1,442	1,326
Virginia	75,760	78,400	-3.4%	59,447	61,156	14,268	15,045	249	272	1,796	1,927
West Virginia	47,404	56,500	-16.1%	32,965	41,493	13,645	13,953	0	0	794	1,054
East South Central	303,267	302,698	0.2%	258,862	264,900	36,613	29,519	158	169	7,633	8,110
Alabama	121,940	117,918	3.4%	86,186	88,554	31,844	25,179	0	0	3,911	4,186
Kentucky	57,344	59,759	-4.0%	56,319	58,804	569	505	0	0	457	450
Mississippi	56,517	57,206	-1.2%	52,206	52,954	2,810	2,676	0	0	1,502	1,576
Tennessee	67,465	67,815	-0.5%	64,152	64,589	1,390	1,160	158	169	1,764	1,898
West South Central	658,872	612,935	7.5%	213,568	204,339	383,612	349,088	838	766	60,854	58,743
Arkansas	55,459	52,374	5.9%	48,939	46,528	5,531	4,899	51	53	939	895
Louisiana	88,674	82,831	7.1%	57,302	54,080	6,898	5,773	125	158	24,349	22,820
Oklahoma	72,356	68,809	5.2%	32,517	32,890	39,115	35,237	0	0	724	682
Texas	442,383	408,921	8.2%	74,810	70,840	332,068	303,179	663	555	34,843	34,346
Mountain	314,379	312,019	0.8%	223,904	230,624	87,095	77,920	945	923	2,435	2,552
Arizona	88,743	93,094	-4.7%	69,518	73,700	19,089	19,267	134	127	NM	0
Colorado	48,330	47,651	1.4%	33,967	35,203	14,143	12,220	30	24	190	204
Idaho	14,334	14,460	-0.9%	8,976	9,063	4,851	4,887	56	58	451	452
Montana	22,346	20,658	8.2%	9,871	9,099	12,450	11,531	0	0	25	28
Nevada	36,306	35,688	1.7%	21,607	23,467	13,867	11,430	530	499	302	293
New Mexico	33,636	28,613	17.6%	19,838	18,046	13,680	10,404	103	116	15	48
Utah	32,799	35,894	-8.6%	27,701	31,010	4,714	4,438	91	99	293	347
Wyoming	37,885	35,959	5.4%	32,426	31,036	4,302	3,744	0	0	1,157	1,180
Pacific Contiguous	325,344	309,026	5.3%	179,798	162,209	130,922	131,032	2,104	2,139	12,520	13,646
California	172,347	168,252	2.4%	55,234	51,778	104,783	103,110	2,014	2,051	10,315	11,314
Oregon	52,278	50,236	4.1%	36,180	32,428	15,509	17,255	69	69	519	485
Washington	100,719	90,537	11.2%	88,383	78,003	10,630	10,667	21	19	1,686	1,847
Pacific Noncontiguous	13,325	12,982	2.6%	9,142	8,720	3,272	3,392	612	585	299	284
Alaska	5,413	5,368	0.8%	4,827	4,799	195	187	291	287	101	95
Hawaii	7,912	7,614	3.9%	4,315	3,921	3,077	3,205	322	299	198	189
U.S. Total	3,556,933	3,456,887	2.9%	1,877,382	1,870,046	1,552,479	1,460,511	10,771	10,662	116,301	115,667

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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.A. Utility Scale Facility Net Generation from Coal
by State, by Sector, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	3	4	-23.0%	0	0	3	4	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	4	-23.0%	0	0	3	4	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	587	1,090	-46.1%	0	0	579	1,082	0	0	7	8
New Jersey	0	49	-100.0%	0	0	0	49	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	587	1,041	-43.6%	0	0	579	1,033	0	0	7	8
East North Central	11,770	14,472	-18.7%	6,988	7,828	4,669	6,559	6	5	106	80
Illinois	2,204	2,926	-24.7%	107	15	2,001	2,848	NM	1	95	62
Indiana	2,747	3,359	-18.2%	2,458	2,932	283	423	5	5	0	0
Michigan	3,270	2,979	9.8%	3,236	2,947	31	32	0	0	NM	0
Ohio	2,625	3,516	-25.3%	271	260	2,354	3,256	0	0	0	0
Wisconsin	925	1,693	-45.4%	915	1,674	0	0	0	0	NM	18
West North Central	11,071	11,323	-2.2%	10,918	11,135	0	0	9	9	144	180
Iowa	1,121	1,720	-34.8%	1,004	1,581	0	0	6	5	111	134
Kansas	1,541	1,106	39.3%	1,541	1,106	0	0	0	0	0	0
Minnesota	1,162	1,110	4.7%	1,153	1,099	0	0	0	0	NM	11
Missouri	3,597	4,115	-12.6%	3,593	4,112	0	0	3	3	0	0
Nebraska	1,648	1,544	6.7%	1,632	1,522	0	0	0	0	16	23
North Dakota	1,955	1,728	13.1%	1,947	1,715	0	0	0	0	NM	13
South Dakota	47	0	--	47	0	0	0	0	0	0	0
South Atlantic	5,315	7,135	-25.5%	4,498	5,618	773	1,475	1	1	NM	41
Delaware	-2	5	-144.2%	0	0	-2	5	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,052	1,440	-27.0%	1,049	1,436	0	0	0	0	NM	5
Georgia	608	640	-4.9%	594	625	0	0	0	0	NM	15
Maryland	126	279	-54.8%	0	0	126	279	0	0	0	0
North Carolina	199	767	-74.1%	184	757	0	0	1	1	13	10
South Carolina	796	1,072	-25.7%	782	1,067	12	2	0	0	2	3
Virginia	10	92	-89.4%	0	84	0	0	0	0	10	9
West Virginia	2,526	2,840	-11.0%	1,889	1,650	637	1,190	0	0	0	0
East South Central	6,450	6,273	2.8%	6,237	6,107	176	128	0	0	37	39
Alabama	2,140	1,972	8.6%	2,137	1,972	0	0	0	0	NM	0
Kentucky	2,985	3,073	-2.9%	2,985	3,073	0	0	0	0	0	0
Mississippi	247	307	-19.5%	71	179	176	128	0	0	0	0
Tennessee	1,078	921	17.0%	1,044	883	0	0	0	0	34	39
West South Central	8,489	10,871	-21.9%	3,895	5,454	4,592	5,405	0	0	3	13
Arkansas	1,402	1,908	-26.5%	1,082	1,418	317	486	0	0	3	3
Louisiana	361	931	-61.3%	232	592	129	339	0	0	0	0
Oklahoma	428	973	-56.0%	428	964	0	0	0	0	0	10
Texas	6,299	7,059	-10.8%	2,153	2,479	4,146	4,580	0	0	0	0
Mountain	9,797	10,792	-9.2%	8,410	9,566	1,356	1,195	0	0	32	31
Arizona	934	1,626	-42.6%	934	1,626	0	0	0	0	0	0
Colorado	1,655	1,860	-11.0%	1,655	1,860	0	0	0	0	0	0
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	1,130	1,044	8.2%	0	0	1,129	1,043	0	0	NM	1
Nevada	221	337	-34.5%	71	218	150	119	0	0	0	0
New Mexico	1,014	973	4.2%	1,014	973	0	0	0	0	0	0
Utah	1,674	2,361	-29.1%	1,653	2,327	21	34	0	0	0	0
Wyoming	3,169	2,589	22.4%	3,083	2,561	56	-1	0	0	30	29
Pacific Contiguous	519	471	10.2%	0	0	488	443	0	0	31	28
California	28	26	8.0%	0	0	0	0	0	0	28	26
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	491	445	10.3%	0	0	488	443	0	0	3	2
Pacific Noncontiguous	NM	141	NM	NM	15	NM	112	9	15	0	0
Alaska	NM	47	NM	NM	15	NM	17	9	15	0	0
Hawaii	0	95	-100.0%	0	0	0	95	0	0	0	0
U.S. Total	54,049	62,572	-13.6%	40,970	45,722	12,650	16,402	26	29	403	419

Displayed values of zero may 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.B. Utility Scale Facility Net Generation from Coal

by State, by Sector, Year-to-Date through October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	311	555	-44.1%	0	0	311	555	0	0	0	0
Connecticut	0	245	-100.0%	0	0	0	245	0	0	0	0
Maine	34	42	-19.5%	0	0	34	42	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	277	269	3.0%	0	0	277	269	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	20,120	27,588	-27.1%	0	0	20,047	27,523	0	0	73	65
New Jersey	498	876	-43.2%	0	0	498	876	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	19,622	26,713	-26.5%	0	0	19,550	26,647	0	0	73	65
East North Central	161,445	181,042	-10.8%	92,294	105,947	67,838	73,825	50	35	1,263	1,235
Illinois	34,271	37,153	-7.8%	1,566	1,515	31,604	34,566	7	8	1,094	1,064
Indiana	42,579	48,581	-12.4%	38,846	44,620	3,691	3,935	43	27	0	0
Michigan	29,251	31,062	-5.8%	28,942	30,784	297	276	0	0	12	1
Ohio	36,654	39,682	-7.6%	4,408	4,634	32,246	35,048	0	0	0	0
Wisconsin	18,689	24,564	-23.9%	18,532	24,395	0	0	0	0	157	169
West North Central	129,980	137,370	-5.4%	128,156	135,693	0	0	77	54	1,747	1,624
Iowa	15,202	19,875	-23.5%	13,881	18,676	0	0	50	37	1,271	1,162
Kansas	17,675	16,676	6.0%	17,675	16,676	0	0	0	0	0	0
Minnesota	13,289	13,428	-1.0%	13,151	13,305	0	0	16	8	121	114
Missouri	44,616	49,576	-10.0%	44,606	49,568	0	0	11	8	0	0
Nebraska	16,674	15,974	4.4%	16,407	15,711	0	0	0	0	267	262
North Dakota	20,674	20,346	1.6%	20,588	20,261	0	0	0	0	87	85
South Dakota	1,849	1,495	23.6%	1,849	1,495	0	0	0	0	0	0
South Atlantic	99,496	127,142	-21.7%	83,901	110,393	15,144	16,279	10	28	441	442
Delaware	108	279	-61.3%	0	0	108	279	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	12,536	16,996	-26.2%	12,503	16,961	0	0	0	0	33	35
Georgia	13,805	18,189	-24.1%	13,635	18,034	0	0	0	0	170	155
Maryland	4,183	4,728	-11.5%	0	0	4,183	4,728	0	0	0	0
North Carolina	11,782	19,495	-39.6%	11,647	19,338	0	16	10	28	125	113
South Carolina	11,752	13,191	-10.9%	11,575	13,048	163	121	0	0	14	22
Virginia	2,748	2,785	-1.3%	2,649	2,579	0	90	0	0	99	116
West Virginia	42,581	51,480	-17.3%	31,892	40,434	10,690	11,046	0	0	0	0
East South Central	80,115	86,806	-7.7%	77,452	84,149	2,342	2,290	0	0	321	367
Alabama	21,609	22,535	-4.1%	21,593	22,535	0	0	0	0	NM	0
Kentucky	39,232	43,219	-9.2%	39,232	43,219	0	0	0	0	0	0
Mississippi	4,818	4,706	2.4%	2,477	2,416	2,342	2,290	0	0	0	0
Tennessee	14,456	16,346	-11.6%	14,151	15,979	0	0	0	0	306	367
West South Central	105,348	112,865	-6.7%	54,893	60,771	50,363	52,035	0	0	92	60
Arkansas	17,625	19,765	-10.8%	13,894	16,124	3,698	3,613	0	0	33	27
Louisiana	7,229	7,152	1.1%	4,340	5,154	2,889	1,998	0	0	0	0
Oklahoma	7,781	9,549	-18.5%	7,722	9,517	0	0	0	0	59	32
Texas	72,712	76,399	-4.8%	28,937	29,976	43,775	46,423	0	0	0	0
Mountain	98,292	102,673	-4.3%	86,567	91,881	11,407	10,473	0	0	319	319
Arizona	11,097	11,985	-7.4%	11,097	11,985	0	0	0	0	0	0
Colorado	18,054	19,941	-9.5%	18,054	19,941	0	0	0	0	0	0
Idaho	NM	13	NM	0	0	0	0	0	0	NM	13
Montana	9,402	8,795	6.9%	0	64	9,396	8,724	0	0	NM	7
Nevada	2,326	2,172	7.1%	1,229	1,241	1,097	931	0	0	0	0
New Mexico	11,357	10,037	13.2%	11,357	10,037	0	0	0	0	0	0
Utah	18,730	22,344	-16.2%	18,398	22,019	333	325	0	0	0	0
Wyoming	27,312	27,385	-0.3%	26,432	26,593	580	493	0	0	300	299
Pacific Contiguous	3,193	3,003	6.3%	0	0	2,973	2,734	0	0	219	269
California	203	249	-18.6%	0	0	0	0	0	0	203	249
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,990	2,754	8.6%	0	0	2,973	2,734	0	0	16	20
Pacific Noncontiguous	1,241	1,503	-17.4%	348	333	803	1,053	89	117	0	0
Alaska	593	599	-1.0%	348	333	156	149	89	117	0	0
Hawaii	648	904	-28.4%	0	0	648	904	0	0	0	0
U.S. Total	699,540	780,548	-10.4%	523,611	589,166	171,228	186,767	227	234	4,475	4,381

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

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

Notes: See Glossary for definitions. Values 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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	11	7	71.3%	NM	2	6	1	2	1	2	2
Connecticut	3	1	282.2%	0	1	NM	-1	1	0	0	1
Maine	3	3	-15.9%	0	0	1	2	0	0	1	1
Massachusetts	2	2	42.5%	NM	1	2	0	NM	0	NM	0
New Hampshire	1	1	3.1%	0	0	NM	0	1	1	0	0
Rhode Island	2	NM	NM	0	0	2	0	0	NM	NM	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	22	11	105.2%	NM	4	18	5	NM	0	1	1
New Jersey	1	1	88.7%	0	0	1	1	NM	0	0	0
New York	13	6	116.3%	NM	4	9	1	NM	0	0	1
Pennsylvania	8	4	91.9%	0	0	7	4	0	0	NM	0
East North Central	44	42	4.7%	31	28	12	13	0	0	1	0
Illinois	2	3	-25.6%	1	1	1	2	NM	0	0	0
Indiana	6	5	19.5%	6	5	0	0	0	0	0	0
Michigan	8	11	-27.5%	8	11	0	0	NM	0	0	0
Ohio	13	12	2.5%	2	1	11	11	0	0	0	0
Wisconsin	16	11	40.4%	15	11	0	0	NM	0	NM	0
West North Central	48	55	-13.1%	47	55	NM	0	0	0	0	0
Iowa	12	11	11.4%	12	11	0	0	0	0	NM	0
Kansas	7	9	-23.1%	7	9	0	0	0	0	0	0
Minnesota	7	8	-11.8%	6	7	NM	0	0	0	0	0
Missouri	11	19	-39.7%	11	19	0	0	0	0	0	0
Nebraska	NM	4	NM	NM	4	0	0	0	0	0	0
North Dakota	3	3	18.1%	3	3	0	0	0	0	0	0
South Dakota	NM	3	NM	NM	3	0	0	NM	0	0	0
South Atlantic	48	100	-52.2%	34	79	5	8	2	5	8	8
Delaware	NM	1	NM	0	0	NM	1	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	17	42	-58.3%	16	40	0	0	0	0	NM	2
Georgia	6	2	209.7%	3	-3	NM	1	0	0	3	4
Maryland	NM	3	NM	0	0	NM	3	NM	0	0	0
North Carolina	9	25	-65.7%	7	24	NM	1	NM	0	NM	1
South Carolina	3	9	-63.6%	2	8	0	0	0	0	1	1
Virginia	10	12	-16.5%	NM	5	3	2	2	4	1	1
West Virginia	1	6	-84.6%	1	6	0	0	0	0	0	0
East South Central	1	10	-93.7%	-1	9	NM	0	0	0	2	1
Alabama	1	0	207.3%	NM	0	NM	0	0	0	1	0
Kentucky	-3	2	-220.0%	-3	2	0	0	0	0	0	0
Mississippi	0	1	-66.1%	NM	1	0	0	0	0	0	0
Tennessee	2	6	-71.0%	2	6	0	0	0	0	0	0
West South Central	27	18	51.3%	20	13	7	5	NM	0	0	1
Arkansas	3	2	48.4%	NM	2	3	0	0	0	NM	0
Louisiana	4	2	57.0%	4	2	0	0	0	0	0	0
Oklahoma	3	4	-39.8%	3	4	0	0	0	0	0	0
Texas	18	9	95.2%	13	5	NM	4	NM	0	0	0
Mountain	13	17	-20.1%	13	16	1	1	NM	0	0	0
Arizona	3	3	-13.5%	3	3	0	0	NM	0	0	0
Colorado	NM	2	NM	NM	2	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	NM	0	NM	NM	0	0	0	0	0	0	0
Nevada	1	0	43.8%	1	0	0	0	0	0	0	0
New Mexico	NM	4	NM	NM	4	0	0	0	0	0	0
Utah	4	3	37.5%	4	3	0	0	0	0	0	0
Wyoming	2	4	-34.8%	2	4	0	0	0	0	0	0
Pacific Contiguous	5	11	-52.2%	3	3	1	7	NM	0	1	2
California	4	9	-59.6%	3	3	1	6	0	0	NM	0
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	2	2	-25.4%	NM	0	0	1	0	0	1	2
Pacific Noncontiguous	771	624	23.6%	603	481	151	126	0	0	16	16
Alaska	78	101	-22.2%	74	96	0	0	0	0	4	4
Hawaii	692	523	32.3%	529	385	151	126	0	0	12	12
U.S. Total	991	895	10.7%	754	690	201	166	6	7	30	32

Displayed values of zero may 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 1.5.B. Utility Scale Facility Net Generation from Petroleum Liquids

by State, by Sector, Year-to-Date through October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	1,196	176	578.3%	28	18	1,131	130	NM	19	16	10
Connecticut	NM	46	NM	4	4	NM	37	NM	1	1	3
Maine	181	25	614.7%	0	0	168	18	1	NM	13	6
Massachusetts	577	52	NM	20	11	550	35	NM	5	2	1
New Hampshire	342	43	697.3%	0	0	333	34	9	9	0	0
Rhode Island	NM	9	NM	0	0	NM	7	NM	NM	NM	0
Vermont	4	2	59.3%	4	2	0	0	0	0	0	0
Middle Atlantic	1,288	795	62.0%	538	539	731	239	NM	7	NM	10
New Jersey	27	30	-11.0%	0	0	25	29	NM	1	1	0
New York	1,139	663	71.7%	537	539	592	116	NM	3	7	6
Pennsylvania	122	102	19.8%	1	0	114	95	3	3	NM	4
East North Central	466	516	-9.7%	324	368	131	135	2	4	NM	10
Illinois	38	45	-15.5%	11	15	26	30	0	0	0	0
Indiana	90	109	-17.0%	82	104	8	4	0	1	1	1
Michigan	93	101	-8.8%	89	96	0	0	0	2	3	3
Ohio	116	120	-3.4%	17	17	96	101	0	0	2	1
Wisconsin	129	141	-8.3%	125	135	0	1	NM	1	NM	4
West North Central	555	638	-13.1%	542	625	NM	9	2	2	2	2
Iowa	100	88	13.4%	97	86	2	2	0	0	NM	0
Kansas	113	127	-11.0%	113	127	0	0	0	0	0	0
Minnesota	78	94	-17.3%	68	84	NM	7	1	2	2	2
Missouri	165	227	-27.6%	164	227	0	0	0	0	0	0
Nebraska	46	46	0.5%	46	46	0	0	0	0	0	0
North Dakota	24	23	5.5%	24	22	0	0	0	0	0	0
South Dakota	30	34	-10.9%	30	34	0	0	NM	0	0	0
South Atlantic	1,191	1,162	2.5%	888	856	189	183	34	43	79	79
Delaware	NM	15	NM	4	1	NM	13	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	381	324	17.5%	358	286	8	20	0	0	14	17
Georgia	108	71	52.0%	62	23	NM	11	4	1	38	36
Maryland	85	66	28.5%	6	0	78	65	NM	0	NM	0
North Carolina	117	181	-35.4%	100	159	NM	5	NM	0	12	17
South Carolina	81	77	5.1%	70	67	3	3	0	0	9	7
Virginia	301	299	0.7%	191	195	73	60	30	42	7	2
West Virginia	98	129	-23.8%	98	124	0	5	0	0	0	0
East South Central	173	159	8.9%	162	139	2	11	0	0	10	9
Alabama	13	18	-28.1%	4	3	1	11	0	0	8	5
Kentucky	53	53	0.8%	53	53	0	0	0	0	0	0
Mississippi	6	7	-22.9%	5	5	0	0	0	0	1	2
Tennessee	101	80	25.6%	99	78	0	0	0	0	1	2
West South Central	221	268	-17.5%	141	183	77	81	NM	0	3	4
Arkansas	43	48	-10.1%	NM	39	13	9	0	0	NM	0
Louisiana	10	12	-11.1%	10	12	0	0	0	0	0	0
Oklahoma	25	32	-21.5%	24	31	0	0	0	0	1	1
Texas	143	177	-19.2%	NM	101	64	73	NM	0	2	3
Mountain	152	184	-17.6%	144	173	NM	11	NM	0	0	0
Arizona	27	38	-28.8%	27	38	0	0	NM	0	0	0
Colorado	21	22	-6.1%	21	22	0	0	0	0	0	0
Idaho	0	0	16.0%	0	0	0	0	0	0	0	0
Montana	NM	8	NM	NM	0	NM	8	0	0	0	0
Nevada	8	7	12.5%	6	5	2	2	0	0	0	0
New Mexico	22	28	-21.0%	22	28	0	0	0	0	0	0
Utah	27	34	-22.6%	26	33	1	2	0	0	0	0
Wyoming	43	47	-8.9%	42	46	0	0	0	0	0	0
Pacific Contiguous	99	96	3.7%	31	32	42	15	NM	1	NM	47
California	74	70	6.0%	29	29	35	9	1	0	9	32
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	NM	25	NM	NM	3	8	7	NM	0	NM	15
Pacific Noncontiguous	6,182	5,816	6.3%	4,870	4,523	1,140	1,122	2	3	171	168
Alaska	746	737	1.3%	706	698	0	0	-1	0	42	38
Hawaii	5,436	5,079	7.0%	4,164	3,825	1,140	1,122	3	2	129	130
U.S. Total	11,522	9,810	17.5%	7,666	7,455	3,460	1,937	70	79	326	339

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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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 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	262	225	16.3%	182	115	64	96	0	0	15	14
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	188	102	85.3%	173	88	0	0	0	0	15	14
Ohio	64	96	-33.2%	0	0	64	96	0	0	0	0
Wisconsin	9	27	-66.4%	9	27	0	0	0	0	0	0
West North Central	0	1	-100.0%	0	0	0	0	0	1	0	0
Iowa	0	1	-100.0%	0	0	0	0	0	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	63	35	81.6%	53	27	0	0	0	0	10	8
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	53	27	98.9%	53	27	0	0	0	0	0	0
Georgia	10	8	23.9%	0	0	0	0	0	0	10	8
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	211	379	-44.4%	205	372	0	0	0	0	6	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	205	372	-44.9%	205	372	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	6	7	-15.1%	0	0	0	0	0	0	6	7
Mountain	39	15	149.6%	0	0	39	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	39	15	149.6%	0	0	39	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	574	655	-12.4%	440	514	103	112	0	1	31	29

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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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 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	2,066	1,662	24.3%	1,234	749	708	788	0	0	124	124
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,222	760	60.8%	1,098	636	0	0	0	0	124	124
Ohio	708	789	-10.2%	0	0	708	788	0	0	0	0
Wisconsin	136	113	19.9%	136	113	0	0	0	0	0	0
West North Central	8	27	-68.7%	0	0	0	0	8	1	0	26
Iowa	8	27	-68.7%	0	0	0	0	8	1	0	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	787	785	0.3%	685	700	0	0	0	0	102	85
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	685	700	-2.1%	685	700	0	0	0	0	0	0
Georgia	102	85	20.4%	0	0	0	0	0	0	102	85
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	2,444	3,301	-26.0%	2,364	3,226	0	0	0	0	80	75
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,364	3,226	-26.7%	2,364	3,226	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	80	75	7.1%	0	0	0	0	0	0	80	75
Mountain	372	362	2.8%	0	0	372	362	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	372	362	2.8%	0	0	372	362	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	5,695	6,136	-7.2%	4,301	4,676	1,080	1,150	8	1	306	309

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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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	3,557	4,919	-27.7%	NM	7	3,397	4,709	61	76	93	126
Connecticut	1,821	1,774	2.7%	3	5	1,757	1,703	21	25	40	41
Maine	175	346	-49.3%	0	0	147	297	3	3	26	46
Massachusetts	743	1,140	-34.8%	NM	2	693	1,077	36	43	13	17
New Hampshire	367	577	-36.4%	0	0	364	574	1	1	2	3
Rhode Island	450	1,082	-58.4%	0	0	437	1,059	2	4	NM	19
Vermont	0	0	-80.4%	0	0	0	0	0	0	0	0
Middle Atlantic	17,460	17,664	-1.2%	690	784	16,393	16,583	57	75	321	221
New Jersey	2,530	3,145	-19.5%	NM	11	2,482	3,091	NM	14	31	29
New York	4,411	4,623	-4.6%	680	772	3,647	3,753	39	50	45	48
Pennsylvania	10,519	9,896	6.3%	2	2	10,264	9,739	9	12	244	144
East North Central	14,705	13,913	5.7%	5,067	4,420	9,237	9,046	109	131	291	317
Illinois	1,912	1,910	0.1%	181	339	1,655	1,469	28	43	47	59
Indiana	2,843	2,347	21.2%	1,246	895	1,478	1,304	12	16	107	131
Michigan	3,662	2,558	43.2%	1,421	923	2,147	1,545	48	45	47	44
Ohio	4,652	5,244	-11.3%	747	489	3,867	4,716	17	21	21	19
Wisconsin	1,636	1,854	-11.8%	1,472	1,774	91	11	4	5	69	63
West North Central	2,430	2,723	-10.8%	1,792	2,132	527	478	28	29	82	84
Iowa	472	639	-26.2%	399	586	0	0	9	6	65	47
Kansas	279	181	54.0%	273	160	0	0	0	0	6	21
Minnesota	864	1,236	-30.0%	533	912	317	305	9	9	6	9
Missouri	555	409	35.6%	331	220	210	173	11	13	3	3
Nebraska	62	59	5.5%	62	58	0	0	0	0	0	0
North Dakota	116	101	14.6%	115	100	0	0	0	0	1	1
South Dakota	82	99	-16.7%	80	95	0	0	0	0	NM	4
South Atlantic	31,836	33,455	-4.8%	26,510	27,993	4,839	5,002	44	50	443	410
Delaware	420	185	127.1%	2	1	340	140	0	0	78	44
District of Columbia	NM	9	NM	0	0	0	0	NM	9	0	0
Florida	15,121	16,773	-9.8%	14,210	15,773	768	848	NM	6	136	146
Georgia	4,275	4,853	-11.9%	3,198	3,806	1,001	973	0	0	76	74
Maryland	1,480	1,505	-1.7%	465	438	995	1,042	16	22	4	4
North Carolina	4,599	4,036	14.0%	3,885	3,214	688	798	NM	13	13	11
South Carolina	2,064	2,104	-1.9%	1,979	2,041	78	52	0	0	8	11
Virginia	3,684	3,682	0.1%	2,756	2,671	860	955	2	0	65	57
West Virginia	186	307	-39.4%	14	49	109	194	0	0	63	64
East South Central	10,097	9,779	3.2%	7,000	6,883	2,799	2,603	13	13	286	280
Alabama	4,754	4,373	8.7%	1,832	1,643	2,790	2,587	0	0	132	143
Kentucky	1,170	1,224	-4.4%	1,145	1,188	6	12	0	0	19	25
Mississippi	3,305	3,495	-5.4%	3,258	3,457	2	3	0	0	45	35
Tennessee	868	688	26.2%	765	596	0	2	13	13	90	77
West South Central	29,584	29,279	1.0%	10,119	9,739	14,012	14,079	64	64	5,388	5,398
Arkansas	1,701	1,869	-9.0%	1,603	1,726	81	124	NM	4	14	14
Louisiana	5,261	5,599	-6.0%	2,799	3,178	299	305	13	13	2,149	2,103
Oklahoma	2,848	2,385	19.4%	1,779	1,265	1,032	1,079	0	0	37	41
Texas	19,774	19,426	1.8%	3,938	3,569	12,600	12,570	48	47	3,187	3,240
Mountain	10,357	7,946	30.3%	7,922	5,635	2,270	2,145	38	34	126	132
Arizona	4,441	3,661	21.3%	2,959	2,356	1,471	1,293	12	11	0	0
Colorado	1,190	820	45.2%	974	582	204	220	0	0	11	18
Idaho	310	313	-1.1%	154	126	141	174	3	3	11	10
Montana	79	57	40.1%	66	38	13	18	0	0	1	1
Nevada	2,189	1,786	22.6%	2,034	1,569	117	186	5	4	33	27
New Mexico	1,003	612	63.9%	677	355	315	248	10	8	1	0
Utah	965	586	64.9%	935	558	NM	6	7	6	15	15
Wyoming	179	112	59.9%	124	50	0	0	0	0	55	62
Pacific Contiguous	12,804	11,927	7.4%	4,840	4,361	7,017	6,473	122	133	825	960
California	9,477	8,705	8.9%	2,947	2,697	5,667	4,997	118	128	744	883
Oregon	1,654	1,824	-9.3%	775	945	867	871	4	4	7	4
Washington	1,674	1,398	19.8%	1,117	719	482	605	0	1	74	73
Pacific Noncontiguous	210	257	-18.3%	204	252	0	0	0	0	6	5
Alaska	210	257	-18.3%	204	252	0	0	0	0	6	5
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	133,040	131,860	0.9%	64,148	62,206	60,493	61,119	537	603	7,862	7,933

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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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	47,539	47,368	0.4%	167	124	45,335	45,123	773	786	1,265	1,334
Connecticut	20,715	19,979	3.7%	30	51	19,972	19,150	239	253	475	525
Maine	3,224	2,861	12.7%	0	0	2,713	2,348	26	26	485	486
Massachusetts	13,402	13,234	1.3%	137	73	12,643	12,535	462	457	160	168
New Hampshire	4,173	4,048	3.1%	0	0	4,142	4,014	7	10	24	24
Rhode Island	6,024	7,245	-16.9%	0	0	5,865	7,075	39	40	120	130
Vermont	1	1	-19.7%	0	0	0	0	1	1	0	0
Middle Atlantic	188,553	177,270	6.4%	9,213	10,545	175,334	163,881	809	761	3,196	2,082
New Jersey	28,615	25,074	14.1%	115	88	28,024	24,546	170	150	307	290
New York	50,794	47,383	7.2%	9,067	10,446	40,731	35,961	502	508	494	468
Pennsylvania	109,143	104,813	4.1%	31	12	106,579	103,374	138	103	2,395	1,324
East North Central	157,282	129,430	21.5%	53,555	43,007	98,989	81,562	1,278	1,286	3,460	3,575
Illinois	20,563	17,488	17.6%	2,723	1,540	16,874	14,876	384	409	582	663
Indiana	26,475	22,618	17.1%	11,088	7,840	13,833	13,168	130	147	1,424	1,464
Michigan	33,558	25,600	31.1%	13,767	9,932	18,807	14,703	513	471	471	494
Ohio	57,242	45,693	25.3%	8,122	7,094	48,659	38,176	200	206	260	217
Wisconsin	19,443	18,031	7.8%	17,855	16,601	816	639	51	53	722	738
West North Central	27,393	26,529	3.3%	21,381	20,388	4,990	5,044	298	282	724	815
Iowa	5,553	5,247	5.8%	5,014	4,711	NM	0	78	70	460	466
Kansas	3,047	2,265	34.5%	2,937	2,076	0	0	0	0	110	189
Minnesota	9,242	10,289	-10.2%	5,786	6,711	3,275	3,398	95	89	86	91
Missouri	6,549	5,295	23.7%	4,673	3,495	1,715	1,645	124	121	37	33
Nebraska	920	1,011	-9.0%	919	1,009	0	0	0	2	0	0
North Dakota	1,191	1,323	-9.9%	1,181	1,310	0	0	0	0	10	13
South Dakota	891	1,099	-18.9%	870	1,075	0	0	0	0	21	24
South Atlantic	344,732	321,477	7.2%	288,395	271,027	51,840	45,682	451	468	4,047	4,300
Delaware	3,945	2,934	34.4%	45	18	3,197	2,296	0	0	704	621
District of Columbia	75	117	-35.5%	0	0	0	0	75	117	0	0
Florida	165,014	156,183	5.7%	154,549	148,027	8,990	6,613	58	57	1,417	1,486
Georgia	51,083	46,421	10.0%	39,298	38,212	11,162	7,584	0	0	624	625
Maryland	12,274	11,571	6.1%	3,622	2,845	8,418	8,513	192	173	42	40
North Carolina	47,643	37,934	25.6%	40,067	30,850	7,326	6,819	115	124	135	141
South Carolina	21,242	19,168	10.8%	19,880	18,440	1,267	593	0	0	95	134
Virginia	41,684	45,020	-7.4%	30,574	32,374	10,443	11,970	11	-4	655	679
West Virginia	1,771	2,128	-16.7%	360	261	1,036	1,292	0	0	375	575
East South Central	125,253	110,310	13.5%	90,658	81,840	31,567	25,248	154	165	2,875	3,058
Alabama	53,084	44,765	18.6%	20,740	18,611	31,017	24,746	0	0	1,327	1,408
Kentucky	14,121	12,071	17.0%	13,373	11,383	537	480	0	0	211	207
Mississippi	43,467	41,249	5.4%	43,032	40,790	7	6	0	0	428	453
Tennessee	14,581	12,226	19.3%	13,513	11,056	6	16	154	165	908	989
West South Central	329,728	301,156	9.5%	121,997	105,486	152,710	142,386	777	701	54,244	52,583
Arkansas	20,641	16,141	27.9%	19,301	15,105	1,105	798	33	33	202	205
Louisiana	61,157	53,521	14.3%	37,380	31,359	2,957	2,617	125	158	20,695	19,388
Oklahoma	31,426	30,110	4.4%	20,839	19,539	10,174	10,165	0	0	413	406
Texas	216,504	201,384	7.5%	44,476	39,483	138,474	128,807	619	510	32,935	32,583
Mountain	95,070	100,472	-5.4%	73,458	78,009	19,984	20,742	351	368	1,277	1,353
Arizona	38,474	42,061	-8.5%	26,383	29,483	11,976	12,468	114	110	0	0
Colorado	12,803	12,578	1.8%	10,882	10,566	1,777	1,853	3	2	142	157
Idaho	3,408	4,138	-17.6%	1,894	2,500	1,389	1,504	32	33	93	101
Montana	457	445	2.6%	345	338	109	105	0	0	NM	2
Nevada	20,886	22,399	-6.8%	18,787	20,248	1,753	1,808	52	52	293	291
New Mexico	8,745	8,818	-0.8%	5,737	5,747	2,891	2,909	102	114	15	48
Utah	8,965	8,757	2.4%	8,621	8,368	88	94	49	56	207	238
Wyoming	1,333	1,275	4.6%	807	759	0	1	0	0	525	516
Pacific Contiguous	104,523	112,705	-7.3%	39,765	42,688	55,008	59,193	1,295	1,323	8,456	9,501
California	77,882	81,365	-4.3%	24,089	24,502	44,794	46,817	1,248	1,277	7,751	8,769
Oregon	15,037	17,536	-14.3%	8,084	8,936	6,852	8,508	37	36	64	56
Washington	11,605	13,803	-15.9%	7,592	9,250	3,362	3,867	10	10	641	676
Pacific Noncontiguous	2,293	2,510	-8.6%	2,234	2,453	0	0	0	0	59	57
Alaska	2,293	2,510	-8.6%	2,234	2,453	0	0	0	0	59	57
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,422,365	1,329,226	7.0%	700,820	655,567	635,756	588,861	6,186	6,141	79,602	78,658

Displayed values of zero may 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-October 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	116,790	11,073	7,211	665	4	135,743
February	100,103	8,633	6,297	542	3	115,578
March	97,542	8,405	5,551	517	4	112,019
April	89,897	9,563	5,823	558	6	105,847
May	105,305	12,719	9,081	614	9	127,729
June	126,518	16,709	12,278	791	12	156,307
July	150,377	21,939	16,969	1,039	18	190,342
August	153,776	19,858	14,457	1,095	14	189,201
Sept	131,281	13,852	10,544	871	10	156,559
October	112,871	10,456	9,027	679	7	133,040

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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 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	49	47	6.0%	0	0	0	0	0	0	49	47
New Jersey	11	7	56.1%	0	0	0	0	0	0	11	7
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	38	39	-3.1%	0	0	0	0	0	0	38	39
East North Central	353	385	-8.3%	0	0	171	174	0	0	182	211
Illinois	14	25	-43.0%	0	0	0	0	0	0	14	25
Indiana	157	169	-7.2%	0	0	0	0	0	0	157	169
Michigan	122	123	-0.5%	0	0	122	123	0	0	0	0
Ohio	60	69	-12.5%	0	0	49	52	0	0	11	17
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	2	4	-34.0%	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	-34.0%	0	0	0	0	0	0	2	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	19	22	-13.8%	0	0	0	0	0	0	19	22
Delaware	17	17	0.9%	0	0	0	0	0	0	17	17
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-10.6%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	5	-60.6%	0	0	0	0	0	0	2	5
East South Central	1	1	15.8%	0	0	0	0	0	0	1	1
Alabama	0	0	NM	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	-14.5%	0	0	0	0	0	0	1	1
West South Central	349	409	-14.6%	0	0	102	168	0	0	247	241
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	160	164	-2.4%	0	0	0	0	0	0	160	164
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	190	245	-22.8%	0	0	102	168	0	0	87	77
Mountain	31	35	-11.6%	0	0	1	0	0	0	30	34
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	1	1	80.5%	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	0	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	29	33	-14.6%	0	0	0	0	0	0	29	33
Pacific Contiguous	180	160	12.6%	0	0	0	0	0	0	180	160
California	161	139	15.8%	0	0	0	0	0	0	161	139
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	18	20	-9.2%	0	0	0	0	0	0	18	20
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	985	1,062	-7.3%	0	0	274	343	0	0	711	719

Displayed values of zero may 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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 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	536	528	1.6%	0	0	0	2	0	0	536	526
New Jersey	99	77	27.5%	0	0	0	0	0	0	99	77
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	438	451	-2.8%	0	0	0	2	0	0	438	449
East North Central	3,738	3,939	-5.1%	0	12	1,633	1,693	0	0	2,104	2,234
Illinois	208	199	4.5%	0	0	0	0	0	0	208	199
Indiana	1,826	1,919	-4.9%	0	0	0	0	0	0	1,826	1,919
Michigan	1,102	1,140	-3.3%	0	12	1,102	1,129	0	0	0	0
Ohio	602	680	-11.6%	0	0	531	565	0	0	70	116
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	26	31	-17.4%	0	0	0	0	0	0	26	31
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	26	31	-17.4%	0	0	0	0	0	0	26	31
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	195	164	19.3%	0	0	0	0	0	0	195	164
Delaware	164	122	34.4%	0	0	0	0	0	0	164	122
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-14.8%	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	31	42	-24.6%	0	0	0	0	0	0	31	42
East South Central	11	9	19.4%	0	0	0	0	0	0	11	9
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	10	9	4.1%	0	0	0	0	0	0	10	9
West South Central	3,708	3,279	13.1%	0	0	1,297	1,175	0	0	2,411	2,104
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,571	1,450	8.3%	0	0	0	0	0	0	1,571	1,450
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,138	1,830	16.8%	0	0	1,297	1,175	0	0	840	654
Mountain	285	318	-10.4%	0	0	2	10	0	0	282	308
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	7	5	37.3%	0	0	0	0	0	0	7	5
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4	11	-64.6%	0	0	2	10	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	-34.9%	0	0	0	0	0	0	3	5
Wyoming	271	297	-8.9%	0	0	0	0	0	0	271	297
Pacific Contiguous	1,378	1,329	3.7%	0	0	0	0	0	0	1,378	1,329
California	1,173	1,123	4.4%	0	0	0	0	0	0	1,173	1,123
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	205	205	0.0%	0	0	0	0	0	0	205	205
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	9,878	9,597	2.9%	0	12	2,933	2,880	0	0	6,944	6,705

Displayed values of zero may 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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	2,485	1,064	133.6%	0	0	2,485	1,064	0	0	0	0
Connecticut	1,558	1,037	50.2%	0	0	1,558	1,037	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	927	27	NM	0	0	927	27	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	9,591	9,601	-0.1%	0	0	9,591	9,601	0	0	0	0
New Jersey	1,738	1,776	-2.1%	0	0	1,738	1,776	0	0	0	0
New York	2,113	2,105	0.4%	0	0	2,113	2,105	0	0	0	0
Pennsylvania	5,740	5,720	0.4%	0	0	5,740	5,720	0	0	0	0
East North Central	12,167	12,207	-0.3%	1,648	2,487	10,520	9,719	0	0	0	0
Illinois	8,060	6,990	15.3%	0	0	8,060	6,990	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,648	3,083	-46.6%	1,648	2,487	0	596	0	0	0	0
Ohio	1,566	1,600	-2.1%	0	0	1,566	1,600	0	0	0	0
Wisconsin	894	533	67.8%	0	0	894	533	0	0	0	0
West North Central	2,104	3,250	-35.3%	2,104	3,250	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	136	854	-84.1%	136	854	0	0	0	0	0	0
Minnesota	1,046	900	16.3%	1,046	900	0	0	0	0	0	0
Missouri	914	906	0.9%	914	906	0	0	0	0	0	0
Nebraska	9	591	-98.6%	9	591	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,215	14,623	10.9%	14,890	13,302	1,325	1,320	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	2,671	795	235.8%	2,671	795	0	0	0	0	0	0
Georgia	2,923	2,847	2.7%	2,923	2,847	0	0	0	0	0	0
Maryland	1,325	1,320	0.4%	0	0	1,325	1,320	0	0	0	0
North Carolina	3,315	3,571	-7.2%	3,315	3,571	0	0	0	0	0	0
South Carolina	3,965	3,653	8.5%	3,965	3,653	0	0	0	0	0	0
Virginia	2,015	2,435	-17.2%	2,015	2,435	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,757	7,563	-10.7%	6,757	7,563	0	0	0	0	0	0
Alabama	2,645	4,164	-36.5%	2,645	4,164	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,021	1,002	1.9%	1,021	1,002	0	0	0	0	0	0
Tennessee	3,091	2,397	28.9%	3,091	2,397	0	0	0	0	0	0
West South Central	5,362	4,404	21.8%	2,423	2,230	2,939	2,174	0	0	0	0
Arkansas	841	633	32.9%	841	633	0	0	0	0	0	0
Louisiana	1,582	1,597	-0.9%	1,582	1,597	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,939	2,174	35.2%	0	0	2,939	2,174	0	0	0	0
Mountain	2,185	2,187	-0.1%	2,185	2,187	0	0	0	0	0	0
Arizona	2,185	2,187	-0.1%	2,185	2,187	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	2,078	2,046	1.6%	2,078	2,046	0	0	0	0	0	0
California	1,223	1,198	2.2%	1,223	1,198	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	855	849	0.7%	855	849	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	58,945	56,945	3.5%	32,085	33,066	26,860	23,879	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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	22,465	22,511	-0.2%	0	0	22,465	22,511	0	0	0	0
Connecticut	13,372	14,316	-6.6%	0	0	13,372	14,316	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	9,093	8,195	11.0%	0	0	9,093	8,195	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	108,034	112,586	-4.0%	0	0	108,034	112,586	0	0	0	0
New Jersey	23,201	23,300	-0.4%	0	0	23,201	23,300	0	0	0	0
New York	21,930	26,315	-16.7%	0	0	21,930	26,315	0	0	0	0
Pennsylvania	62,903	62,971	-0.1%	0	0	62,903	62,971	0	0	0	0
East North Central	125,803	131,243	-4.1%	18,609	22,558	107,194	108,686	0	0	0	0
Illinois	81,907	80,216	2.1%	0	0	81,907	80,216	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	21,339	28,378	-24.8%	18,609	22,558	2,730	5,821	0	0	0	0
Ohio	14,247	14,382	-0.9%	0	0	14,247	14,382	0	0	0	0
Wisconsin	8,309	8,267	0.5%	0	0	8,309	8,267	0	0	0	0
West North Central	31,961	26,635	20.0%	31,961	26,635	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	7,824	6,882	13.7%	7,824	6,882	0	0	0	0	0	0
Minnesota	12,238	11,531	6.1%	12,238	11,531	0	0	0	0	0	0
Missouri	7,062	2,488	183.9%	7,062	2,488	0	0	0	0	0	0
Nebraska	4,837	5,734	-15.6%	4,837	5,734	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	170,156	168,386	1.1%	157,977	155,999	12,179	12,387	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	25,361	23,054	10.0%	25,361	23,054	0	0	0	0	0	0
Georgia	28,017	27,977	0.1%	28,017	27,977	0	0	0	0	0	0
Maryland	12,179	12,387	-1.7%	0	0	12,179	12,387	0	0	0	0
North Carolina	35,025	35,420	-1.1%	35,025	35,420	0	0	0	0	0	0
South Carolina	45,823	45,703	0.3%	45,823	45,703	0	0	0	0	0	0
Virginia	23,753	23,846	-0.4%	23,753	23,846	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	71,738	77,435	-7.4%	71,738	77,435	0	0	0	0	0	0
Alabama	35,626	37,846	-5.9%	35,626	37,846	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	6,692	9,744	-31.3%	6,692	9,744	0	0	0	0	0	0
Tennessee	29,419	29,846	-1.4%	29,419	29,846	0	0	0	0	0	0
West South Central	60,560	59,199	2.3%	26,017	25,750	34,544	33,449	0	0	0	0
Arkansas	12,843	11,621	10.5%	12,843	11,621	0	0	0	0	0	0
Louisiana	13,173	14,128	-6.8%	13,173	14,128	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	34,544	33,449	3.3%	0	0	34,544	33,449	0	0	0	0
Mountain	26,536	26,332	0.8%	26,536	26,332	0	0	0	0	0	0
Arizona	26,536	26,332	0.8%	26,536	26,332	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	23,149	20,392	13.5%	23,149	20,392	0	0	0	0	0	0
California	14,993	13,348	12.3%	14,993	13,348	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	8,155	7,044	15.8%	8,155	7,044	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	640,402	644,719	-0.7%	355,987	355,101	284,415	289,618	0	0	0	0

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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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	337	448	-24.8%	36	50	296	392	0	1	NM	6
Connecticut	28	35	-21.0%	NM	4	26	31	0	0	0	0
Maine	144	181	-20.3%	0	0	140	175	0	0	NM	6
Massachusetts	68	80	-14.9%	18	20	50	60	0	1	0	0
New Hampshire	38	73	-48.4%	NM	1	37	73	0	0	0	0
Rhode Island	0	0	-60.9%	0	0	0	0	0	0	0	0
Vermont	59	78	-24.6%	17	25	42	53	0	0	0	0
Middle Atlantic	2,239	2,628	-14.8%	1,811	2,010	426	613	0	1	2	5
New Jersey	0	0	-100.0%	0	0	0	0	0	0	0	0
New York	2,069	2,374	-12.8%	1,806	2,006	261	362	0	1	2	5
Pennsylvania	170	254	-33.2%	5	4	164	250	0	0	0	0
East North Central	264	361	-26.8%	231	314	25	36	NM	0	8	11
Illinois	6	10	-41.2%	4	5	NM	5	0	0	0	0
Indiana	22	31	-26.9%	22	31	0	0	NM	0	0	0
Michigan	76	106	-28.4%	72	100	NM	5	0	0	NM	1
Ohio	36	46	-22.1%	23	29	12	17	0	0	0	0
Wisconsin	124	168	-26.3%	110	149	NM	9	0	0	7	10
West North Central	645	766	-15.8%	626	748	NM	15	0	0	6	2
Iowa	51	66	-23.3%	51	66	0	0	0	0	0	0
Kansas	1	1	-22.6%	0	0	1	1	0	0	0	0
Minnesota	42	45	-5.8%	25	29	NM	13	0	0	6	2
Missouri	85	108	-21.1%	85	108	0	0	0	0	0	0
Nebraska	65	76	-14.0%	65	76	0	0	0	0	0	0
North Dakota	113	134	-15.3%	113	134	0	0	0	0	0	0
South Dakota	287	336	-14.6%	287	336	0	0	0	0	0	0
South Atlantic	829	1,513	-45.2%	642	1,164	152	302	1	1	34	46
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	17	22	-22.3%	17	22	0	0	0	0	0	0
Georgia	164	365	-55.1%	162	362	NM	1	0	0	2	2
Maryland	69	174	-60.5%	0	0	69	174	0	0	0	0
North Carolina	318	477	-33.2%	264	400	54	76	1	1	NM	0
South Carolina	97	219	-55.7%	93	211	NM	8	0	0	0	0
Virginia	59	110	-46.4%	53	101	5	9	0	0	0	0
West Virginia	106	146	-27.8%	53	68	20	34	0	0	32	44
East South Central	1,542	1,998	-22.8%	1,482	1,933	59	65	0	0	0	0
Alabama	592	888	-33.4%	592	888	0	0	0	0	0	0
Kentucky	291	378	-22.9%	290	376	NM	2	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	659	732	-10.1%	601	669	58	63	0	0	0	0
West South Central	475	526	-9.7%	393	452	81	73	0	0	0	0
Arkansas	208	235	-11.5%	203	229	5	6	0	0	0	0
Louisiana	73	65	13.1%	0	0	73	65	0	0	0	0
Oklahoma	152	162	-6.2%	152	162	0	0	0	0	0	0
Texas	42	64	-35.2%	39	62	3	3	0	0	0	0
Mountain	1,557	1,706	-8.7%	1,491	1,643	63	60	NM	3	0	0
Arizona	303	350	-13.5%	303	350	0	0	0	0	0	0
Colorado	81	96	-15.0%	69	84	NM	10	1	1	0	0
Idaho	463	485	-4.5%	421	444	41	41	0	0	0	0
Montana	527	561	-6.0%	521	554	NM	7	0	0	0	0
Nevada	98	129	-24.3%	95	129	NM	1	0	0	0	0
New Mexico	NM	7	NM	NM	7	0	0	0	0	0	0
Utah	31	30	2.1%	28	27	1	1	NM	2	0	0
Wyoming	47	48	-2.6%	46	47	1	1	0	0	0	0
Pacific Contiguous	6,642	7,064	-6.0%	6,561	6,967	81	96	NM	0	0	0
California	873	1,219	-28.3%	825	1,149	49	69	NM	0	0	0
Oregon	1,690	1,758	-3.8%	1,679	1,746	NM	12	0	0	0	0
Washington	4,078	4,087	-0.2%	4,058	4,072	NM	15	0	0	0	0
Pacific Noncontiguous	111	124	-10.3%	88	103	8	4	NM	11	NM	5
Alaska	98	114	-14.0%	88	102	0	0	NM	11	0	0
Hawaii	13	10	31.8%	0	1	8	4	0	0	NM	5
U.S. Total	14,640	17,133	-14.5%	13,361	15,383	1,204	1,657	NM	17	59	76

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

by State, by Sector, Year-to-Date through October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	4,534	5,005	-9.4%	503	545	3,971	4,391	4	5	56	64
Connecticut	352	382	-7.9%	25	35	327	347	0	0	0	0
Maine	1,858	2,033	-8.6%	NM	1	1,801	1,968	0	0	56	64
Massachusetts	839	894	-6.2%	219	222	615	667	4	5	0	0
New Hampshire	695	820	-15.2%	NM	9	687	810	0	0	0	0
Rhode Island	2	4	-30.2%	0	0	2	4	0	0	0	0
Vermont	788	872	-9.7%	250	277	537	595	0	0	0	0
Middle Atlantic	25,167	26,220	-4.0%	19,674	20,035	5,458	6,128	4	6	31	50
New Jersey	5	16	-71.5%	0	0	5	16	0	0	0	0
New York	22,901	23,629	-3.1%	19,601	19,959	3,265	3,615	4	6	31	50
Pennsylvania	2,261	2,574	-12.1%	73	77	2,188	2,497	0	0	0	0
East North Central	4,130	3,830	7.9%	3,649	3,336	369	381	NM	1	107	112
Illinois	88	108	-17.9%	46	55	42	52	0	1	0	0
Indiana	285	324	-11.9%	279	324	0	0	NM	0	0	0
Michigan	1,273	1,121	13.6%	1,204	1,056	61	56	0	0	NM	9
Ohio	431	484	-10.8%	279	310	153	174	0	0	0	0
Wisconsin	2,052	1,794	14.4%	1,841	1,592	113	99	0	0	99	103
West North Central	10,565	9,424	12.1%	10,284	9,186	218	194	0	0	63	44
Iowa	990	796	24.4%	986	791	5	5	0	0	0	0
Kansas	22	26	-15.2%	0	0	22	26	0	0	0	0
Minnesota	665	559	19.0%	411	353	191	162	0	0	63	44
Missouri	1,215	1,408	-13.7%	1,215	1,408	0	0	0	0	0	0
Nebraska	1,083	921	17.6%	1,083	921	0	0	0	0	0	0
North Dakota	1,884	1,630	15.5%	1,884	1,630	0	0	0	0	0	0
South Dakota	4,706	4,084	15.2%	4,706	4,084	0	0	0	0	0	0
South Atlantic	12,454	14,768	-15.7%	9,512	11,270	2,523	3,029	9	15	409	455
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	194	213	-9.1%	194	213	0	0	0	0	0	0
Georgia	2,661	3,091	-13.9%	2,633	3,066	NM	7	0	0	17	17
Maryland	1,430	1,767	-19.1%	0	0	1,430	1,767	0	0	0	0
North Carolina	4,207	4,975	-15.4%	3,524	4,205	669	757	9	13	NM	0
South Carolina	1,735	2,156	-19.5%	1,680	2,084	55	70	0	2	0	0
Virginia	944	1,122	-15.8%	867	1,026	77	95	0	0	0	0
West Virginia	1,283	1,444	-11.2%	615	675	280	332	0	0	388	437
East South Central	19,788	22,424	-11.8%	19,067	21,641	721	783	0	0	0	0
Alabama	8,199	9,538	-14.0%	8,199	9,538	0	0	0	0	0	0
Kentucky	3,494	3,975	-12.1%	3,476	3,964	NM	11	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	8,094	8,911	-9.2%	7,392	8,139	703	772	0	0	0	0
West South Central	6,453	8,024	-19.6%	5,521	6,951	931	1,072	NM	1	0	0
Arkansas	2,841	3,602	-21.1%	2,795	3,552	47	50	0	0	0	0
Louisiana	847	991	-14.4%	0	0	847	991	0	0	0	0
Oklahoma	1,985	2,470	-19.7%	1,985	2,470	0	0	0	0	0	0
Texas	779	961	-18.9%	742	929	37	32	NM	1	0	0
Mountain	25,376	24,653	2.9%	24,319	23,720	1,008	889	49	43	0	0
Arizona	4,747	5,101	-6.9%	4,747	5,101	0	0	0	0	0	0
Colorado	1,488	1,411	5.5%	1,293	1,246	180	152	15	13	0	0
Idaho	7,584	6,995	8.4%	6,917	6,405	667	590	0	0	0	0
Montana	8,779	8,101	8.4%	8,676	8,005	104	96	0	0	0	0
Nevada	1,432	1,814	-21.1%	1,390	1,779	42	36	0	0	0	0
New Mexico	117	108	9.2%	117	108	0	0	0	0	0	0
Utah	476	430	10.7%	437	394	5	6	34	30	0	0
Wyoming	752	693	8.5%	742	684	10	9	0	0	0	0
Pacific Contiguous	111,237	92,825	19.8%	109,839	91,742	1,390	1,075	NM	8	0	0
California	15,267	12,978	17.6%	14,398	12,266	862	704	NM	8	0	0
Oregon	27,078	22,013	23.0%	26,886	21,852	192	161	0	0	0	0
Washington	68,892	57,834	19.1%	68,556	57,624	336	210	0	0	0	0
Pacific Noncontiguous	1,745	1,479	18.0%	1,469	1,253	39	28	168	139	69	59
Alaska	1,632	1,384	17.9%	1,464	1,246	0	0	168	139	0	0
Hawaii	112	94	19.1%	5	8	39	28	0	0	69	59
U.S. Total	221,447	208,650	6.1%	203,837	189,681	16,627	17,969	249	217	735	783

Displayed values of zero may 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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	990	855	15.8%	36	63	895	728	12	12	46	53
Connecticut	86	75	14.6%	0	0	85	75	NM	0	NM	0
Maine	373	325	14.9%	0	0	324	269	3	3	46	52
Massachusetts	287	213	34.5%	13	11	269	198	5	4	NM	0
New Hampshire	105	99	6.3%	0	0	101	95	4	4	0	0
Rhode Island	75	53	43.4%	0	0	75	52	0	0	0	0
Vermont	64	91	-29.2%	23	52	41	39	0	0	0	0
Middle Atlantic	1,408	1,184	18.9%	11	8	1,295	1,084	53	47	49	45
New Jersey	195	160	22.3%	11	8	160	131	24	21	NM	1
New York	737	584	26.2%	0	0	704	557	19	16	14	11
Pennsylvania	476	440	8.0%	0	0	430	396	11	11	35	33
East North Central	5,110	3,667	39.3%	742	505	4,251	3,050	13	10	104	103
Illinois	2,248	1,642	36.9%	16	14	2,231	1,627	NM	0	0	0
Indiana	1,040	687	51.4%	66	49	968	632	0	2	6	5
Michigan	1,100	804	36.9%	479	330	570	423	4	3	48	49
Ohio	410	313	30.9%	NM	1	380	283	2	1	27	28
Wisconsin	312	221	41.0%	179	111	102	84	7	4	23	22
West North Central	11,069	10,458	5.8%	4,140	3,892	6,879	6,473	13	19	37	74
Iowa	3,659	3,168	15.5%	2,699	2,424	952	736	2	1	6	6
Kansas	2,006	2,116	-5.2%	158	211	1,846	1,903	NM	1	NM	1
Minnesota	1,470	1,261	16.6%	405	340	1,029	843	6	14	29	64
Missouri	590	590	-0.1%	219	211	369	379	2	1	0	0
Nebraska	1,057	885	19.4%	13	14	1,042	869	1	2	0	0
North Dakota	1,368	1,601	-14.6%	496	575	872	1,026	0	0	NM	0
South Dakota	920	837	10.0%	149	118	770	717	0	0	NM	2
South Atlantic	4,748	4,102	15.7%	1,270	1,018	2,729	2,271	42	39	707	773
Delaware	11	10	1.0%	NM	0	9	8	NM	1	NM	1
District of Columbia	7	6	13.5%	0	0	2	2	5	5	0	0
Florida	1,267	1,111	14.0%	916	761	199	204	15	9	136	137
Georgia	1,064	902	18.0%	61	51	713	520	NM	0	290	332
Maryland	126	126	-0.4%	NM	1	122	124	3	2	0	0
North Carolina	1,125	996	12.9%	69	60	951	822	10	13	96	101
South Carolina	334	320	4.6%	5	5	225	203	0	0	104	112
Virginia	629	490	28.4%	218	141	322	249	10	9	80	91
West Virginia	185	140	31.9%	0	0	185	140	0	0	0	0
East South Central	570	587	-2.8%	15	14	211	125	NM	0	344	448
Alabama	268	334	-19.7%	2	2	83	54	0	0	183	278
Kentucky	34	40	-15.0%	12	12	NM	1	0	0	21	27
Mississippi	143	119	20.5%	0	0	54	36	0	0	89	83
Tennessee	125	94	33.1%	NM	0	73	34	NM	0	51	59
West South Central	13,088	13,610	-3.8%	236	248	12,534	13,017	5	8	313	337
Arkansas	135	113	19.7%	NM	1	65	40	2	2	67	70
Louisiana	190	189	0.6%	3	3	28	16	0	0	159	170
Oklahoma	2,660	2,927	-9.1%	173	214	2,460	2,683	0	0	27	30
Texas	10,103	10,381	-2.7%	59	31	9,981	10,278	3	5	60	67
Mountain	5,867	5,832	0.6%	1,079	1,221	4,709	4,521	44	58	35	32
Arizona	673	708	-4.9%	57	59	612	648	2	2	NM	0
Colorado	1,246	1,457	-14.4%	278	365	967	1,091	NM	1	0	0
Idaho	321	299	7.4%	17	15	272	251	3	2	30	30
Montana	294	325	-9.7%	70	100	222	224	0	0	2	2
Nevada	1,074	894	20.2%	15	12	1,021	830	37	52	NM	0
New Mexico	1,123	1,022	9.9%	213	245	910	777	NM	0	0	0
Utah	397	349	13.7%	18	19	378	329	1	1	0	0
Wyoming	739	779	-5.1%	411	407	328	372	0	0	0	0
Pacific Contiguous	7,407	6,616	12.0%	674	675	6,465	5,676	82	79	186	186
California	5,612	4,884	14.9%	172	143	5,292	4,606	78	75	70	60
Oregon	931	856	8.8%	106	136	784	683	4	3	38	35
Washington	864	876	-1.4%	396	396	389	388	1	1	78	91
Pacific Noncontiguous	159	166	-4.0%	16	16	124	130	18	20	0	0
Alaska	16	17	-8.2%	8	9	NM	4	3	4	0	0
Hawaii	143	149	-3.5%	8	8	120	125	15	16	0	0
U.S. Total	50,417	47,077	7.1%	8,219	7,660	40,092	37,075	284	292	1,821	2,050

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

by State, by Sector, Year-to-Date through October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	10,774	9,615	12.1%	558	588	9,560	8,269	125	114	530	644
Connecticut	976	866	12.7%	1	2	972	861	4	3	NM	0
Maine	4,111	3,766	9.2%	0	0	3,558	3,102	28	24	526	639
Massachusetts	2,836	2,391	18.6%	127	121	2,657	2,220	48	46	4	4
New Hampshire	1,234	1,173	5.2%	0	0	1,196	1,139	38	34	0	0
Rhode Island	742	568	30.6%	0	0	736	563	6	6	0	0
Vermont	875	851	2.8%	431	465	442	384	1	2	0	0
Middle Atlantic	13,599	12,050	12.9%	110	101	12,410	10,930	562	524	517	495
New Jersey	2,046	1,828	11.9%	110	101	1,657	1,482	271	238	8	6
New York	6,960	5,857	18.8%	0	0	6,633	5,545	181	174	147	138
Pennsylvania	4,593	4,365	5.2%	0	0	4,120	3,903	110	111	363	351
East North Central	46,370	36,022	28.7%	6,761	5,188	38,392	29,635	137	134	1,080	1,065
Illinois	20,190	15,213	32.7%	160	144	20,022	15,066	8	4	0	0
Indiana	9,120	6,955	31.1%	678	581	8,378	6,306	12	17	52	51
Michigan	10,011	8,329	20.2%	4,064	3,145	5,389	4,637	36	37	522	509
Ohio	3,832	3,106	23.4%	13	12	3,551	2,823	14	14	253	257
Wisconsin	3,217	2,419	33.0%	1,846	1,306	1,051	803	67	61	252	248
West North Central	113,027	94,919	19.1%	40,719	34,429	71,495	59,649	224	185	590	656
Iowa	36,101	29,331	23.1%	26,747	22,318	9,273	6,951	20	9	61	52
Kansas	24,384	20,878	16.8%	1,728	1,724	22,636	19,141	13	13	NM	1
Minnesota	14,276	12,316	15.9%	3,728	2,905	9,910	8,715	141	116	498	580
Missouri	6,146	5,209	18.0%	2,341	1,715	3,768	3,456	35	35	3	2
Nebraska	10,040	7,616	31.8%	143	142	9,882	7,461	15	12	0	0
North Dakota	13,573	11,989	13.2%	4,731	4,403	8,837	7,585	0	0	4	1
South Dakota	8,507	7,579	12.2%	1,301	1,221	7,189	6,339	0	0	17	19
South Atlantic	50,910	43,470	17.1%	13,880	10,786	28,633	24,158	418	480	7,979	8,045
Delaware	120	115	3.8%	6	5	98	96	6	5	9	9
District of Columbia	75	61	22.2%	0	0	26	16	48	45	0	0
Florida	13,412	11,271	19.0%	9,736	7,487	2,086	2,112	133	147	1,456	1,524
Georgia	10,936	9,046	20.9%	611	504	7,115	5,271	2	2	3,208	3,269
Maryland	1,307	1,266	3.2%	7	7	1,276	1,238	24	21	0	0
North Carolina	12,238	10,928	12.0%	731	665	10,427	9,139	104	148	977	976
South Carolina	3,954	3,673	7.6%	50	55	2,609	2,481	0	0	1,295	1,137
Virginia	7,220	5,818	24.1%	2,740	2,063	3,347	2,515	100	111	1,034	1,129
West Virginia	1,649	1,292	27.6%	0	0	1,649	1,292	0	0	0	0
East South Central	6,544	6,000	9.1%	147	147	1,981	1,188	5	4	4,410	4,661
Alabama	3,408	3,217	5.9%	24	21	826	422	0	0	2,559	2,773
Kentucky	380	380	0.2%	121	123	14	14	0	0	245	243
Mississippi	1,534	1,500	2.2%	0	0	460	380	0	0	1,073	1,121
Tennessee	1,222	903	35.3%	2	2	682	372	5	4	533	525
West South Central	149,734	124,039	20.7%	2,647	1,803	143,688	118,874	61	64	3,337	3,298
Arkansas	1,400	1,109	26.2%	15	5	668	429	18	20	699	655
Louisiana	1,938	1,897	2.2%	34	31	204	167	0	0	1,701	1,699
Oklahoma	31,220	26,728	16.8%	2,019	1,414	28,942	25,072	0	0	259	242
Texas	115,176	94,305	22.1%	580	352	113,875	93,206	43	44	678	703
Mountain	67,717	56,402	20.1%	12,739	10,378	54,107	45,203	545	512	327	308
Arizona	7,778	7,475	4.0%	637	654	7,119	6,804	20	17	NM	0
Colorado	15,919	13,674	16.4%	3,721	3,453	12,183	10,209	13	9	2	2
Idaho	3,283	3,263	0.6%	164	159	2,796	2,793	24	25	298	287
Montana	3,095	2,706	14.4%	849	692	2,230	1,996	0	0	16	17
Nevada	11,651	9,272	25.7%	171	169	10,992	8,654	478	447	9	2
New Mexico	13,394	9,622	39.2%	2,603	2,126	10,789	7,495	NM	2	0	0
Utah	4,484	4,194	6.9%	190	171	4,286	4,012	8	12	0	0
Wyoming	8,114	6,195	31.0%	4,403	2,954	3,711	3,241	0	0	0	0
Pacific Contiguous	81,440	78,361	3.9%	7,084	7,624	71,520	67,891	800	807	2,036	2,038
California	62,523	58,892	6.2%	1,805	1,905	59,188	55,543	757	766	772	678
Oregon	10,134	10,656	-4.9%	1,210	1,640	8,436	8,554	32	33	455	429
Washington	8,783	8,813	-0.3%	4,068	4,079	3,896	3,793	10	9	808	931
Pacific Noncontiguous	1,634	1,518	7.7%	163	162	1,290	1,191	181	164	0	0
Alaska	151	142	5.9%	77	73	39	38	34	31	0	0
Hawaii	1,483	1,375	7.9%	86	89	1,250	1,153	147	133	0	0
U.S. Total	541,749	462,393	17.2%	84,809	71,206	433,075	366,988	3,058	2,989	20,806	21,210

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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 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	-34	-42	-19.1%	0	0	-34	-42	0	0	0	0
Connecticut	0	0	-101.0%	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-34	-42	-19.8%	0	0	-34	-42	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	-68	-86	-20.9%	-38	-34	-30	-52	0	0	0	0
New Jersey	0	-10	-100.0%	0	0	0	-10	0	0	0	0
New York	-38	-34	9.7%	-38	-34	0	0	0	0	0	0
Pennsylvania	-30	-41	-26.9%	0	0	-30	-41	0	0	0	0
East North Central	-48	-79	-38.6%	-48	-79	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	-48	-79	-38.6%	-48	-79	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	-9	-5.8%	-9	-9	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	-9	-5.8%	-9	-9	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	-222	-115	93.2%	-222	-115	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	-71	48	-247.6%	-71	48	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	-54	-57	-6.1%	-54	-57	0	0	0	0	0	0
Virginia	-98	-106	-7.6%	-98	-106	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-35	-50	-30.4%	-35	-50	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	-50	-30.4%	-35	-50	0	0	0	0	0	0
West South Central	-9	2	-502.7%	-9	2	0	0	0	0	0	0
Arkansas	1	2	-40.7%	1	2	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-10	0	--	-10	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	-2	-106.0%	0	-2	0	0	0	0	0	0
Arizona	1	-2	-166.5%	1	-2	0	0	0	0	0	0
Colorado	-1	0	765.4%	-1	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	-10	-46	-77.9%	-10	-46	0	0	0	0	0	0
California	-10	-46	-78.3%	-10	-46	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	-34.7%	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	-434	-427	1.8%	-370	-333	-64	-93	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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	-324	-356	-9.1%	0	0	-324	-356	0	0	0	0
Connecticut	1	0	349.8%	0	0	1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-325	-356	-8.8%	0	0	-325	-356	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	-1,138	-1,011	12.5%	-393	-315	-744	-696	0	0	0	0
New Jersey	-125	-104	20.0%	0	0	-125	-104	0	0	0	0
New York	-393	-315	24.7%	-393	-315	0	0	0	0	0	0
Pennsylvania	-620	-592	4.6%	0	0	-620	-592	0	0	0	0
East North Central	-704	-623	13.1%	-704	-623	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	-704	-623	13.1%	-704	-623	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	176	11	NM	176	11	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	176	11	NM	176	11	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-2,596	-1,622	60.0%	-2,596	-1,622	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	-552	-64	767.4%	-552	-64	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	-719	-631	13.8%	-719	-631	0	0	0	0	0	0
Virginia	-1,325	-927	43.0%	-1,325	-927	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-425	-512	-17.1%	-425	-512	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	-425	-512	-17.1%	-425	-512	0	0	0	0	0	0
West South Central	-18	1	NM	-18	1	0	0	0	0	0	0
Arkansas	60	82	-26.3%	60	82	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-79	-81	-3.1%	-79	-81	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	91	81	11.6%	91	81	0	0	0	0	0	0
Arizona	93	107	-12.8%	93	107	0	0	0	0	0	0
Colorado	-3	-26	-90.2%	-3	-26	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	-47	-258	-81.9%	-47	-258	0	0	0	0	0	0
California	-58	-261	-77.8%	-58	-261	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	11	3	258.5%	11	3	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-4,984	-4,289	16.2%	-3,916	-3,237	-1,068	-1,052	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 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	150	159	-5.5%	0	0	133	143	3	3	14	13
Connecticut	36	50	-26.9%	0	0	36	50	0	0	0	0
Maine	26	24	9.0%	0	0	9	7	3	3	14	13
Massachusetts	83	81	3.5%	0	0	83	81	0	0	0	0
New Hampshire	4	5	-6.7%	0	0	4	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	106.0%	0	0	0	0	0	0	0	0
Middle Atlantic	191	199	-4.2%	0	0	150	159	41	41	0	0
New Jersey	32	46	-31.4%	0	0	20	33	11	13	0	0
New York	85	75	12.5%	0	0	64	57	21	18	0	0
Pennsylvania	74	78	-4.1%	0	0	66	68	8	9	0	0
East North Central	70	62	13.7%	2	2	7	4	4	5	57	50
Illinois	18	11	62.5%	0	0	-1	-1	0	0	19	12
Indiana	36	38	-4.1%	0	0	0	0	0	2	36	36
Michigan	13	10	33.0%	0	0	7	5	4	3	1	1
Ohio	1	0	60.0%	0	0	0	0	0	0	1	1
Wisconsin	2	2	-18.0%	2	2	0	0	0	0	0	0
West North Central	30	29	3.2%	14	15	13	10	NM	3	0	0
Iowa	0	0	-79.6%	0	0	0	0	0	0	0	0
Kansas	0	0	-100.0%	0	0	0	0	0	0	0	0
Minnesota	26	24	9.1%	11	11	13	10	NM	3	0	0
Missouri	0	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	4	-19.5%	4	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	252	317	-20.4%	-3	0	160	181	27	19	69	117
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	174	205	-14.9%	-3	0	104	113	17	9	57	83
Georgia	4	6	-23.8%	0	0	-1	0	0	0	5	6
Maryland	23	32	-27.6%	0	0	23	32	0	0	0	0
North Carolina	4	26	-84.9%	0	0	0	1	0	0	4	25
South Carolina	3	4	-18.6%	0	0	1	1	0	0	3	3
Virginia	45	46	-2.2%	0	0	35	36	10	10	0	0
West Virginia	-1	-1	-7.2%	0	0	-1	-1	0	0	0	0
East South Central	6	7	-12.5%	5	6	0	0	0	0	NM	1
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	5	6	-13.9%	5	6	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	1	NM	0	0	0	0	0	0	NM	1
West South Central	67	97	-30.6%	7	19	2	8	0	0	58	70
Arkansas	1	1	17.9%	0	0	0	0	0	0	1	1
Louisiana	35	49	-28.5%	0	19	0	0	0	0	35	30
Oklahoma	6	1	879.4%	7	0	0	0	0	0	-1	1
Texas	26	46	-45.0%	0	0	2	8	0	0	24	39
Mountain	45	46	-1.0%	5	2	19	25	0	0	22	18
Arizona	0	-1	-58.4%	0	0	0	-1	0	0	0	0
Colorado	4	5	-9.9%	0	0	0	1	0	0	4	4
Idaho	0	6	-100.0%	0	0	0	0	0	0	0	6
Montana	22	25	-13.3%	0	0	22	25	0	0	0	0
Nevada	0	0	-222.7%	2	0	-3	0	0	0	0	0
New Mexico	0	0	36.4%	0	0	0	0	0	0	0	0
Utah	12	2	433.4%	2	2	0	0	0	0	10	0
Wyoming	8	8	0.4%	0	0	0	0	0	0	8	8
Pacific Contiguous	13	49	-72.5%	-1	-1	-19	7	0	0	34	43
California	6	41	-85.6%	-1	-1	-27	-1	0	0	34	43
Oregon	3	2	46.3%	0	0	3	2	0	0	0	0
Washington	4	5	-14.4%	0	0	4	5	0	0	0	0
Pacific Noncontiguous	17	18	-7.0%	0	-1	0	0	17	19	0	0
Alaska	0	0	-54.4%	0	0	0	0	0	0	0	0
Hawaii	17	19	-8.2%	0	0	0	0	17	19	0	0
U.S. Total	842	982	-14.2%	29	43	464	535	95	90	254	313

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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 October 2022 and 2021 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	Electric Utilities		Independent Power Producers		October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities					
				October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD				
New England	1,491	1,504	-0.9%	3	2	1,333	1,370	34	29	121	103
Connecticut	418	473	-11.6%	0	0	418	473	0	0	0	0
Maine	235	218	7.9%	0	0	80	86	34	29	121	103
Massachusetts	792	765	3.6%	0	-1	792	765	0	0	0	0
New Hampshire	42	46	-8.0%	0	0	42	46	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3	2	64.4%	3	2	0	0	0	0	0	0
Middle Atlantic	1,975	2,051	-3.7%	0	0	1,540	1,600	432	433	4	19
New Jersey	428	492	-13.0%	0	0	286	331	139	143	4	19
New York	844	816	3.5%	0	0	640	617	204	199	0	0
Pennsylvania	703	744	-5.5%	0	0	615	652	88	91	0	0
East North Central	760	749	1.4%	20	18	62	42	55	66	623	623
Illinois	221	201	9.8%	0	0	-5	-14	0	0	226	216
Indiana	393	407	-3.6%	0	0	0	0	12	21	381	387
Michigan	120	116	3.4%	0	0	66	60	43	45	11	11
Ohio	6	3	85.9%	0	-1	0	-3	0	0	6	7
Wisconsin	20	21	-4.8%	20	19	0	0	0	0	NM	2
West North Central	291	303	-3.9%	136	137	123	129	31	33	1	4
Iowa	0	0	-84.0%	0	0	0	0	0	0	0	0
Kansas	1	4	-80.0%	0	0	0	0	0	0	1	4
Minnesota	256	255	0.2%	101	93	123	129	31	33	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	-100.0%	0	0	0	0	0	0	0	0
North Dakota	35	44	-20.5%	35	44	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,963	3,346	-11.4%	-31	-1	1,716	1,886	250	279	1,028	1,183
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,030	2,272	-10.7%	-31	-1	1,153	1,213	142	157	766	904
Georgia	47	67	-29.9%	0	0	-3	0	0	0	50	67
Maryland	243	313	-22.4%	0	0	243	313	0	0	0	0
North Carolina	182	236	-22.7%	0	0	0	50	0	0	183	186
South Carolina	36	34	5.6%	0	0	6	8	0	0	30	26
Virginia	435	438	-0.5%	0	0	327	316	108	122	0	0
West Virginia	-10	-14	-25.1%	0	0	-10	-14	0	0	0	0
East South Central	52	68	-22.8%	46	62	0	0	0	0	7	6
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	46	62	-26.0%	46	62	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7	6	12.1%	0	0	0	0	0	0	7	6
West South Central	694	803	-13.6%	6	169	2	15	0	0	686	619
Arkansas	4	6	-33.4%	0	0	0	0	0	0	5	7
Louisiana	383	454	-15.7%	0	171	0	0	0	0	383	284
Oklahoma	-1	1	-225.1%	7	0	0	0	0	0	-8	1
Texas	308	341	-9.7%	-1	-1	2	15	0	0	307	328
Mountain	489	542	-9.8%	52	49	208	230	0	0	229	263
Arizona	-9	-6	43.8%	-3	-1	-6	-6	0	0	0	0
Colorado	41	45	-10.1%	0	0	2	6	0	0	39	40
Idaho	48	51	-6.0%	0	0	0	0	0	0	48	51
Montana	233	231	0.8%	0	0	233	231	0	0	0	0
Nevada	4	23	-84.3%	24	24	-20	-1	0	0	0	0
New Mexico	0	0	-35.2%	0	0	0	0	0	0	0	0
Utah	113	130	-12.8%	30	26	0	0	0	0	83	104
Wyoming	60	68	-11.7%	0	0	0	0	0	0	60	68
Pacific Contiguous	373	574	-35.0%	-22	-12	-11	124	0	0	407	462
California	289	488	-40.7%	-22	-11	-96	37	0	0	407	462
Oregon	30	30	-1.7%	0	0	30	30	0	0	0	0
Washington	54	56	-3.3%	0	0	54	56	0	0	0	0
Pacific Noncontiguous	230	157	46.7%	58	-4	0	-2	172	163	0	0
Alaska	-2	-4	-43.3%	-2	-4	0	0	0	0	0	0
Hawaii	233	161	44.7%	60	0	0	-2	172	163	0	0
U.S. Total	9,320	10,098	-7.7%	267	420	4,973	5,394	973	1,002	3,106	3,282

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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 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	290	266	8.9%	18	20	269	244	2	2	0	0
Connecticut	1	1	1.7%	0	0	1	1	0	0	0	0
Maine	196	166	17.6%	0	0	196	166	0	0	0	0
Massachusetts	19	21	-7.0%	5	5	12	14	2	2	0	0
New Hampshire	27	37	-25.0%	0	0	27	37	0	0	0	0
Rhode Island	18	11	73.8%	0	0	18	10	0	0	0	0
Vermont	28	31	-8.9%	13	15	15	16	0	0	0	0
Middle Atlantic	723	628	15.1%	0	0	722	627	NM	0	NM	0
New Jersey	2	2	-4.1%	0	0	2	2	0	0	0	0
New York	406	345	17.7%	0	0	405	344	NM	0	NM	0
Pennsylvania	315	281	12.1%	0	0	315	281	0	0	0	0
East North Central	4,230	3,089	36.9%	562	395	3,656	2,685	NM	2	8	7
Illinois	2,052	1,565	31.1%	NM	1	2,050	1,564	NM	0	0	0
Indiana	909	615	47.7%	0	0	909	615	0	0	0	0
Michigan	838	590	42.1%	471	325	367	265	0	0	0	0
Ohio	287	203	41.2%	NM	1	278	196	0	0	8	7
Wisconsin	144	115	25.1%	90	69	52	44	NM	2	1	1
West North Central	10,721	10,160	5.5%	4,087	3,866	6,630	6,290	NM	4	NM	1
Iowa	3,598	3,139	14.6%	2,674	2,422	924	717	0	0	0	0
Kansas	1,995	2,107	-5.3%	158	211	1,836	1,894	NM	1	NM	1
Minnesota	1,227	1,029	19.2%	389	326	836	701	NM	2	0	0
Missouri	568	574	-1.1%	214	206	355	368	0	0	0	0
Nebraska	1,045	874	19.5%	8	8	1,037	866	0	0	0	0
North Dakota	1,368	1,601	-14.6%	496	575	872	1,026	0	0	0	0
South Dakota	919	835	10.1%	149	118	770	717	0	0	0	0
South Atlantic	261	235	11.1%	4	4	258	231	0	0	0	0
Delaware	0	0	-99.2%	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	39	46	-16.2%	0	0	39	46	0	0	0	0
North Carolina	35	45	-23.1%	0	0	35	45	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	4	4	-8.8%	4	4	0	0	0	0	0	0
West Virginia	184	139	32.2%	0	0	184	139	0	0	0	0
East South Central	NM	2	NM	0	0	NM	2	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	2	NM	0	0	NM	2	0	0	0	0
West South Central	10,712	11,739	-8.7%	181	225	10,528	11,508	3	5	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	2,624	2,889	-9.1%	167	208	2,458	2,681	0	0	0	0
Texas	8,088	8,850	-8.6%	14	18	8,070	8,827	3	5	NM	0
Mountain	3,378	3,689	-8.4%	955	1,095	2,423	2,594	NM	0	0	0
Arizona	76	123	-38.2%	0	0	76	123	0	0	0	0
Colorado	1,040	1,309	-20.5%	277	364	763	945	0	0	0	0
Idaho	234	216	8.5%	16	14	218	202	0	0	0	0
Montana	289	321	-10.0%	69	99	219	221	0	0	0	0
Nevada	15	26	-44.6%	0	0	15	26	0	0	0	0
New Mexico	966	863	11.9%	182	211	784	652	NM	0	0	0
Utah	34	64	-47.3%	0	0	34	64	0	0	0	0
Wyoming	725	767	-5.5%	411	407	314	360	0	0	0	0
Pacific Contiguous	2,456	2,329	5.5%	537	528	1,918	1,799	0	1	0	0
California	1,006	915	10.0%	65	37	941	877	0	1	0	0
Oregon	709	675	5.0%	101	131	608	545	0	0	0	0
Washington	741	738	0.3%	372	360	369	378	0	0	0	0
Pacific Noncontiguous	52	78	-33.7%	8	9	44	69	0	0	0	0
Alaska	12	13	-8.6%	8	9	NM	4	0	0	0	0
Hawaii	40	65	-38.7%	0	0	40	65	0	0	0	0
U.S. Total	32,825	32,215	1.9%	6,352	6,142	26,450	26,049	12	15	10	9

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

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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	3,240	2,993	8.3%	200	176	3,015	2,792	25	24	NM	0
Connecticut	10	10	-3.6%	0	0	10	10	0	0	0	0
Maine	2,169	2,003	8.3%	0	0	2,169	2,003	0	0	0	0
Massachusetts	177	169	4.7%	42	43	115	107	19	19	NM	0
New Hampshire	382	401	-4.8%	0	0	382	401	0	0	0	0
Rhode Island	174	140	24.5%	0	0	169	135	6	6	0	0
Vermont	327	269	21.8%	157	133	170	136	0	0	0	0
Middle Atlantic	6,788	5,929	14.5%	0	0	6,783	5,925	NM	2	2	2
New Jersey	18	16	9.3%	0	0	18	16	0	0	0	0
New York	3,766	3,233	16.5%	0	0	3,761	3,229	NM	2	2	2
Pennsylvania	3,005	2,680	12.1%	0	0	3,005	2,680	0	0	0	0
East North Central	37,310	29,728	25.5%	4,904	3,846	32,300	25,786	25	22	82	74
Illinois	18,429	14,508	27.0%	10	9	18,414	14,495	NM	4	0	0
Indiana	7,734	6,100	26.8%	0	0	7,734	6,100	0	0	0	0
Michigan	7,201	5,933	21.4%	3,984	3,066	3,217	2,867	0	0	0	0
Ohio	2,509	1,967	27.5%	6	5	2,424	1,891	3	3	76	69
Wisconsin	1,438	1,220	17.9%	904	766	510	433	18	16	6	5
West North Central	109,133	91,284	19.6%	40,267	34,130	68,821	57,119	37	34	NM	1
Iowa	35,574	28,959	22.8%	26,589	22,288	8,982	6,669	4	3	0	0
Kansas	24,278	20,775	16.9%	1,727	1,721	22,531	19,040	13	13	NM	1
Minnesota	11,411	9,513	19.9%	3,560	2,761	7,830	6,734	21	18	0	0
Missouri	5,907	5,006	18.0%	2,281	1,665	3,626	3,341	0	0	0	0
Nebraska	9,907	7,484	32.4%	78	71	9,829	7,413	0	0	0	0
North Dakota	13,568	11,988	13.2%	4,731	4,403	8,837	7,585	0	0	0	0
South Dakota	8,488	7,559	12.3%	1,301	1,221	7,187	6,337	0	0	0	0
South Atlantic	2,532	2,139	18.4%	42	40	2,487	2,095	4	4	0	0
Delaware	4	4	-11.2%	0	0	0	0	4	4	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	401	401	0.1%	0	0	401	401	0	0	0	0
North Carolina	444	410	8.2%	0	0	444	410	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	42	40	4.4%	42	40	0	0	0	0	0	0
West Virginia	1,641	1,283	27.9%	0	0	1,641	1,283	0	0	0	0
East South Central	24	23	6.2%	0	0	24	23	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	24	23	6.2%	0	0	24	23	0	0	0	0
West South Central	124,982	106,908	16.9%	2,123	1,516	122,814	105,347	39	42	NM	3
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	30,871	26,404	16.9%	1,949	1,350	28,922	25,053	0	0	0	0
Texas	94,111	80,504	16.9%	174	166	93,892	80,293	39	42	NM	3
Mountain	40,642	33,257	22.2%	11,359	9,005	29,279	24,248	NM	2	2	2
Arizona	1,298	1,335	-2.8%	0	0	1,298	1,335	0	0	0	0
Colorado	13,622	12,056	13.0%	3,709	3,441	9,911	8,612	0	0	2	2
Idaho	2,321	2,252	3.1%	153	147	2,167	2,105	0	0	0	0
Montana	3,040	2,648	14.8%	840	683	2,200	1,965	0	0	0	0
Nevada	249	275	-9.6%	0	0	249	275	0	0	0	0
New Mexico	11,587	8,002	44.8%	2,253	1,779	9,331	6,221	NM	2	0	0
Utah	584	659	-11.3%	0	0	584	659	0	0	0	0
Wyoming	7,942	6,031	31.7%	4,403	2,954	3,539	3,077	0	0	0	0
Pacific Contiguous	28,322	29,674	-4.6%	5,687	6,232	22,626	23,431	5	5	4	6
California	13,161	13,891	-5.3%	735	829	12,416	13,051	5	5	4	6
Oregon	7,604	8,292	-8.3%	1,157	1,585	6,447	6,707	0	0	0	0
Washington	7,558	7,491	0.9%	3,795	3,818	3,762	3,672	0	0	0	0
Pacific Noncontiguous	636	664	-4.3%	76	73	560	591	0	0	0	0
Alaska	115	111	3.6%	76	73	39	38	0	0	0	0
Hawaii	521	553	-5.9%	0	0	521	553	0	0	0	0
U.S. Total	353,609	302,597	16.9%	64,657	55,017	288,709	247,357	140	135	103	88

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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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	388	412	-5.7%	5	33	329	318	9	9	46	52
Connecticut	51	52	-2.3%	0	0	51	52	0	0	0	0
Maine	135	145	-6.5%	0	0	87	90	3	3	46	52
Massachusetts	87	83	4.0%	0	0	85	81	2	2	0	0
New Hampshire	77	62	24.7%	0	0	73	58	4	4	0	0
Rhode Island	21	21	-0.7%	0	0	21	21	0	0	0	0
Vermont	17	48	-64.7%	5	33	NM	15	0	0	0	0
Middle Atlantic	345	356	-3.0%	0	0	261	275	37	37	46	43
New Jersey	47	60	-20.9%	0	0	37	48	10	12	0	0
New York	159	152	4.8%	0	0	129	126	18	15	12	10
Pennsylvania	139	144	-3.8%	0	0	95	100	10	11	34	33
East North Central	392	384	2.2%	78	64	210	217	9	7	95	95
Illinois	34	29	16.3%	15	13	19	16	0	0	0	0
Indiana	32	33	-5.3%	23	22	4	5	0	2	6	5
Michigan	188	190	-1.0%	0	0	136	139	4	3	48	49
Ohio	44	54	-17.7%	0	0	25	33	1	1	19	21
Wisconsin	95	78	21.8%	40	29	27	25	5	3	23	21
West North Central	108	142	-23.8%	21	21	40	32	10	15	37	73
Iowa	16	17	-2.7%	NM	2	7	8	2	1	6	6
Kansas	5	4	7.7%	0	0	5	4	0	0	0	0
Minnesota	71	104	-31.7%	12	11	25	17	4	12	29	64
Missouri	8	7	11.8%	NM	3	3	3	2	1	0	0
Nebraska	6	7	-10.1%	5	5	0	0	1	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	1,348	1,377	-2.1%	128	88	485	489	29	28	706	773
Delaware	6	6	1.3%	0	0	5	5	0	0	NM	1
District of Columbia	5	5	0.5%	0	0	0	0	5	5	0	0
Florida	318	321	-0.9%	50	52	118	124	14	9	135	136
Georgia	431	496	-13.2%	0	0	140	164	0	0	290	332
Maryland	24	31	-23.4%	0	0	23	30	1	0	0	0
North Carolina	158	161	-1.8%	0	0	62	55	0	5	96	101
South Carolina	153	144	5.7%	4	4	45	29	0	0	104	112
Virginia	254	213	19.3%	73	31	91	81	9	9	80	91
West Virginia	NM	1	NM	0	0	NM	1	0	0	0	0
East South Central	363	467	-22.2%	8	8	11	11	0	0	344	447
Alabama	187	282	-33.6%	0	0	4	4	0	0	183	278
Kentucky	30	36	-18.4%	8	8	NM	1	0	0	21	27
Mississippi	90	84	6.6%	0	0	NM	1	0	0	89	83
Tennessee	56	64	-12.3%	0	0	6	6	0	0	51	59
West South Central	387	383	1.2%	43	NM	33	34	0	0	311	337
Arkansas	71	75	-4.9%	0	0	5	5	0	0	67	70
Louisiana	166	177	-6.2%	0	0	7	7	0	0	159	170
Oklahoma	29	32	-8.6%	0	0	NM	2	0	0	27	30
Texas	121	99	22.2%	43	NM	19	20	0	0	58	67
Mountain	84	88	-4.0%	NM	2	47	50	4	4	31	31
Arizona	NM	15	NM	0	0	NM	15	0	0	0	0
Colorado	15	14	4.2%	0	0	15	14	0	0	0	0
Idaho	37	43	-12.6%	NM	1	4	10	3	2	29	30
Montana	3	3	1.1%	NM	1	0	0	0	0	2	2
Nevada	4	4	4.6%	0	0	4	4	0	0	0	0
New Mexico	2	2	14.0%	0	0	2	2	0	0	0	0
Utah	6	7	-7.0%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	616	640	-3.7%	31	46	351	353	64	64	170	177
California	429	427	0.6%	3	6	313	310	59	60	55	51
Oregon	77	78	-1.2%	5	5	31	36	4	3	38	35
Washington	110	134	-18.5%	24	35	7	7	1	1	78	91
Pacific Noncontiguous	29	28	1.9%	1	1	10	8	18	20	0	0
Alaska	3	4	-10.4%	0	0	0	0	3	4	0	0
Hawaii	25	24	3.9%	1	1	10	8	14	16	0	0
U.S. Total	4,061	4,275	-5.0%	317	275	1,778	1,788	179	184	1,787	2,029

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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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	4,335	4,419	-1.9%	217	281	3,504	3,418	89	81	526	639
Connecticut	580	625	-7.1%	0	0	580	625	0	0	0	0
Maine	1,526	1,631	-6.4%	0	0	973	967	28	24	526	639
Massachusetts	839	804	4.5%	0	0	818	782	22	22	0	0
New Hampshire	849	769	10.5%	0	0	811	735	38	34	0	0
Rhode Island	185	170	9.2%	0	0	185	170	0	0	0	0
Vermont	355	422	-16.0%	217	281	137	140	1	2	0	0
Middle Atlantic	3,497	3,689	-5.2%	0	0	2,613	2,820	393	395	491	474
New Jersey	557	595	-6.4%	0	0	436	471	121	125	0	0
New York	1,577	1,607	-1.9%	0	0	1,273	1,313	169	163	135	130
Pennsylvania	1,363	1,487	-8.3%	0	0	905	1,036	103	107	355	344
East North Central	4,154	4,092	1.5%	843	687	2,217	2,315	97	101	997	989
Illinois	334	306	8.9%	148	133	186	173	0	0	0	0
Indiana	334	362	-7.8%	225	243	46	52	10	16	52	51
Michigan	1,996	2,009	-0.6%	0	0	1,439	1,462	35	37	522	509
Ohio	464	541	-14.2%	0	0	282	348	6	7	176	186
Wisconsin	1,026	874	17.3%	471	310	263	279	46	42	246	243
West North Central	1,426	1,458	-2.2%	231	234	426	418	187	151	582	655
Iowa	175	168	4.5%	17	21	81	88	16	6	61	52
Kansas	48	49	-1.5%	0	0	48	49	0	0	0	0
Minnesota	1,012	1,041	-2.8%	127	114	267	251	121	97	498	580
Missouri	97	103	-6.5%	29	35	30	31	35	35	3	2
Nebraska	73	76	-4.7%	58	64	0	0	15	12	0	0
North Dakota	4	1	186.7%	0	0	0	0	0	0	4	1
South Dakota	17	19	-9.0%	0	0	0	0	0	0	17	19
South Atlantic	14,925	15,155	-1.5%	1,545	1,467	5,128	5,296	280	353	7,972	8,039
Delaware	59	61	-3.9%	0	0	49	52	0	0	9	9
District of Columbia	48	45	5.9%	0	0	0	0	48	45	0	0
Florida	3,433	3,541	-3.1%	575	573	1,280	1,306	126	141	1,452	1,521
Georgia	4,764	4,869	-2.2%	0	0	1,555	1,599	0	0	3,208	3,269
Maryland	246	312	-21.1%	0	0	239	305	7	7	0	0
North Carolina	1,545	1,682	-8.2%	0	0	568	656	0	50	977	976
South Carolina	1,852	1,673	10.7%	42	48	519	491	0	0	1,291	1,134
Virginia	2,971	2,964	0.2%	929	847	909	878	98	110	1,034	1,129
West Virginia	8	8	-7.6%	0	0	8	8	0	0	0	0
East South Central	4,599	4,857	-5.3%	80	83	115	118	0	0	4,405	4,656
Alabama	2,595	2,810	-7.6%	0	0	37	37	0	0	2,559	2,773
Kentucky	337	339	-0.5%	80	83	12	13	0	0	245	243
Mississippi	1,082	1,130	-4.2%	0	0	9	9	0	0	1,073	1,121
Tennessee	585	579	1.0%	0	0	57	60	0	0	527	519
West South Central	4,043	3,806	6.2%	391	173	333	337	1	4	3,319	3,292
Arkansas	744	702	6.0%	0	0	47	46	1	4	696	652
Louisiana	1,771	1,768	0.2%	0	0	70	70	0	0	1,701	1,699
Oklahoma	275	257	7.0%	0	0	15	15	0	0	259	242
Texas	1,253	1,079	16.2%	391	173	199	206	0	0	663	700
Mountain	874	877	-0.4%	20	21	511	517	33	37	311	302
Arizona	179	172	3.8%	0	0	179	172	0	0	0	0
Colorado	142	140	1.4%	0	0	142	140	0	0	0	0
Idaho	402	408	-1.4%	11	11	72	87	24	25	295	284
Montana	25	27	-9.0%	9	10	0	0	0	0	16	17
Nevada	43	42	4.4%	0	0	43	42	0	0	0	0
New Mexico	21	22	-1.7%	0	0	21	22	0	0	0	0
Utah	62	67	-8.0%	0	0	54	55	8	12	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,510	6,679	-2.5%	322	364	3,716	3,723	602	635	1,871	1,958
California	4,478	4,562	-1.8%	8	59	3,303	3,313	559	593	607	597
Oregon	874	842	3.8%	49	50	338	330	32	33	455	429
Washington	1,159	1,275	-9.1%	265	255	75	80	10	9	808	931
Pacific Noncontiguous	264	265	-0.3%	14	21	76	79	175	164	0	0
Alaska	34	31	8.8%	0	0	0	0	34	31	0	0
Hawaii	230	233	-1.5%	14	21	76	79	141	133	0	0
U.S. Total	44,627	45,299	-1.5%	3,662	3,332	18,638	19,041	1,855	1,921	20,473	21,005

Displayed values of zero may 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, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 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	349	392	-11.0%	18	19	299	325	32	48	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	6	8	-24.4%	0	0	6	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	305	343	-10.9%	0	0	274	295	32	48	0	0
New Mexico	4	4	3.7%	0	0	4	4	0	0	0	0
Utah	33	37	-10.1%	18	19	15	18	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	973	912	6.8%	64	69	910	843	0	0	0	0
California	960	897	7.0%	64	69	896	828	0	0	0	0
Oregon	14	15	-7.9%	0	0	14	15	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	22	15	45.0%	0	0	22	15	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	15	45.0%	0	0	22	15	0	0	0	0
U.S. Total	1,344	1,319	1.9%	82	88	1,231	1,183	32	48	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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 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	3,780	3,624	4.3%	190	171	3,160	3,052	430	401	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	68	75	-8.9%	0	0	68	75	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	3,308	3,168	4.4%	0	0	2,878	2,767	430	401	0	0
New Mexico	37	42	-10.0%	0	0	37	42	0	0	0	0
Utah	366	339	8.0%	190	171	177	168	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	9,948	9,350	6.4%	656	648	9,293	8,701	0	0	0	0
California	9,790	9,198	6.4%	656	648	9,134	8,550	0	0	0	0
Oregon	159	151	4.9%	0	0	159	151	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	243	151	61.1%	0	0	243	151	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	243	151	61.1%	0	0	243	151	0	0	0	0
U.S. Total	13,971	13,125	6.5%	845	819	12,697	11,905	430	401	0	0

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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, October 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								
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021							
New England	688	465	47.8%	312	177	376	289	13	10	297	166	NM	174	NM	1	201	173	NM	11	NM	0	12	11	163	105	
Connecticut	112	81	37.3%	34	21	78	60	0	0	33	21	NM	26	NM	0	27	26	NM	3	NM	0	4	3	47	31	
Maine	70	24	184.3%	42	13	28	11	0	0	42	13	21	6	0	0	21	6	0	0	0	0	0	0	6	5	
Massachusetts	380	272	39.7%	181	109	199	163	8	6	172	103	NM	110	NM	0	111	110	NM	7	NM	0	7	7	81	46	
New Hampshire	NM	14	NM	NM	0	18	14	0	0	NM	0	7	5	0	0	7	5	1	1	0	0	1	1	10	8	
Rhode Island	76	50	52.1%	36	21	40	29	0	0	36	21	29	21	0	0	29	21	0	0	0	0	0	0	10	7	
Vermont	33	24	41.3%	19	11	14	12	5	4	14	8	5	5	0	0	5	5	0	0	0	0	0	0	9	7	
Middle Atlantic	901	614	46.6%	340	201	561	414	11	8	311	181	281	223	16	10	265	213	26	22	2	1	23	21	272	179	
New Jersey	392	281	39.6%	146	98	246	183	11	8	121	80	124	103	14	9	111	94	NM	15	NM	1	16	15	119	74	
New York	423	273	55.0%	172	88	251	185	0	0	170	87	138	105	1	1	137	105	NM	2	NM	0	1	1	112	79	
Pennsylvania	86	61	41.8%	22	15	64	46	0	0	20	14	NM	15	NM	0	17	15	NM	6	NM	0	6	5	41	26	
East North Central	667	331	101.5%	488	194	179	137	102	46	385	148	NM	78	NM	1	91	77	6	6	0	0	6	5	83	54	
Illinois	260	118	119.8%	162	48	98	70	0	0	162	48	NM	48	NM	0	53	48	0	0	0	0	0	0	44	23	
Indiana	123	56	119.0%	100	38	23	18	44	27	56	11	NM	9	NM	0	13	9	1	1	0	0	1	1	9	9	
Michigan	92	38	139.2%	75	25	17	14	8	5	67	19	NM	6	NM	0	6	6	0	0	0	0	0	0	11	8	
Ohio	104	77	35.2%	78	56	26	21	NM	0	77	55	NM	NM	NM	NM	11	9	3	3	0	0	3	2	12	9	
Wisconsin	89	42	112.8%	73	28	16	14	49	13	23	15	NM	6	NM	0	7	6	2	2	0	0	2	2	7	6	
West North Central	341	232	46.7%	241	156	100	76	31	5	209	151	36	31	0	0	36	31	4	3	0	0	4	3	61	41	
Iowa	68	31	117.1%	44	12	24	19	24	1	20	11	13	11	0	0	13	11	1	1	0	0	1	1	10	7	
Kansas	13	9	35.3%	5	4	7	5	NM	0	5	4	2	2	0	0	2	2	0	0	0	0	0	0	5	3	
Minnesota	190	141	35.1%	171	127	19	14	4	2	168	125	5	4	0	0	5	4	2	2	0	0	2	2	12	8	
Missouri	61	45	36.6%	14	9	47	35	3	1	11	8	15	13	0	0	14	13	1	1	0	0	1	1	31	21	
Nebraska	9	6	44.1%	5	4	3	2	NM	0	5	3	1	1	0	0	1	1	0	0	0	0	0	0	2	1	
North Dakota	0	0	11.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Dakota	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0	0	
South Atlantic	3,663	2,841	28.9%	3,139	2,488	525	353	1,138	925	1,986	1,551	101	85	13	11	88	74	NM	29	NM	1	29	28	407	250	
Delaware	17	15	18.2%	5	4	13	10	NM	0	4	3	NM	2	NM	0	3	2	1	1	0	0	1	1	9	7	
District of Columbia	16	14	21.9%	2	2	14	12	0	0	2	2	5	5	0	0	5	5	0	0	0	0	0	0	9	7	
Florida	1,189	934	27.3%	948	789	241	145	866	708	81	80	NM	17	NM	1	21	16	NM	2	NM	0	1	1	219	128	
Georgia	671	436	53.9%	634	406	37	30	61	51	573	355	NM	5	NM	0	6	5	NM	NM	0	0	NM	NM	NM	NM	
Maryland	159	105	51.1%	63	49	96	56	NM	1	61	47	27	23	2	1	25	22	2	2	0	0	2	2	68	32	
North Carolina	983	827	18.8%	932	790	50	37	69	60	854	722	23	19	10	9	13	11	1	1	0	0	1	1	36	25	
South Carolina	223	208	7.2%	181	175	41	33	NM	1	180	174	8	6	0	0	8	6	NM	3	NM	0	3	3	30	23	
Virginia	403	301	33.8%	372	274	31	27	141	106	231	168	NM	6	NM	0	7	6	0	0	0	0	0	0	24	21	
West Virginia	3	2	51.9%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1	
East South Central	225	133	68.7%	205	118	20	16	7	6	197	111	NM	9	NM	0	10	9	1	1	1	0	0	0	10	7	
Alabama	NM	54	NM	81	53	NM	NM	2	2	79	51	NM	NM	0	0	NM	NM	0	0	0	0	0	0	0	NM	NM
Kentucky	13	9	40.1%	4	4	9	6	4	3	NM	0	3	2	0	0	3	2	0	0	0	0	0	0	6	4	
Mississippi	56	36	53.8%	54	35	2	1	0	0	54	35	1	1	0	0	1	1	0	NM	0	0	0	0	1	1	
Tennessee	73	34	116.6%	66	27	7	7	NM	0	64	26	NM	5	NM	0	5	5	NM	NM	1	0	NM	NM	2	2	
West South Central	2,332	1,723	35.4%	1,988	1,488	343	234	12	11	1,973	1,476	50	41	2	2	48	39	NM	3	NM	0	3	2	292	193	
Arkansas	84	52	62.9%	64	38	20	14	NM	1	60	35	8	7	2	2	6	5	NM	2	NM	0	3	2	12	7	
Louisiana	47	34	39.4%	25	12	23	22	3	3	21	10	2	1	0	0	2	1	0	0	0	0	0	0	21	20	
Oklahoma	14	11	29.5%	6	6	8	4	6	6	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	6	4	
Texas	2,186	1,626	34.4%	1,894	1,432	292	194	NM	1	1,891	1,430	NM	32	NM	0	39	32	NM	NM	NM	0	0	NM	253	163	
Mountain	2,666	2,161	23.4%	1,956	1,590	710	571	104	106	1,840	1,478	136	141	8	6	128	135	16	9	3	0	12	9	569	427	
Arizona	845	791	6.9%	513	514	332	277	57	59	452	453	67	79	2	2	65	78	NM	1	NM	0	1	1	266	198	
Colorado	310	229	35.4%	191	133	119	96	NM	1	189	131	NM	26	NM	1	28	26	2	2	0	0	2	2	89	69	
Idaho	60	43	37.7%	43	32	17	12	0	0	43	32	1	1	0	0	1	1	NM	2	NM	0	2	2	13	9	
Montana	7	5	23.4%	2	2	4	3	0	0	2	2	1	1	0	0	1	1	0	0	0	0	0	0	3	2	
Nevada	835	589	41.7%	718	503	118	87	15	12	697	487	15	14	5	4	10	10	NM	4	NM	0	6	3	102	73	
New Mexico	200	191	4.8%	151	153	49	38	31	34	120	119	11	10	0	0	11	10	0	0	0	0	0	0	38	28	
Utah	392	298	31.4%	323	241	69	57	0	0	323	241	11	10	0	0	11	10	1	1	0	0	1	1	57	47	
Wyoming	16	14	20.4%	14	12	2	2	0	0	14	12	0	0	0	0	0	0	0	0	0	0	0	0	2	1	
Pacific Contiguous	5,301	4,224	25.5%	3,173	2,589	2,128	1,635	42	32	3,097	2,534	475	419	18	15	457	405	262	246	15	9	247	238	1,424	993	
California	5,096	4,087	24.7%	3,027	2,498	2,068	1,589	41	31	2,953	2,444	462	408	18	15	444	393	261	245	15	9	246	236	1,379	959	
Oregon	163																									

Table 1.17.B. Net Generation from Solar Photovoltaic by State, by Sector, Year-to-Date through October 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			Electric Utilities		Independent Power Producers		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation							
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD					
New England	7,713	6,050	27.5%	3,199	2,203	4,514	3,847	142	131	3,042	2,058	2,465	2,150	11	9	2,455	2,142	147	143	4	4	143	139	1,916	1,567	
Connecticut	1,306	998	30.8%	386	231	920	768	1	2	381	226	339	303	4	3	335	301	43	41	NM	0	0	43	41	542	426
Maine	708	250	183.5%	415	132	292	118	0	0	415	132	219	58	0	0	219	58	0	0	0	0	0	0	0	74	60
Massachusetts	4,257	3,701	15.0%	1,820	1,419	2,437	2,282	84	77	1,724	1,331	1,402	1,411	7	6	1,395	1,405	89	89	4	4	85	85	957	791	
New Hampshire	215	175	22.9%	3	3	212	172	0	0	3	3	85	64	0	0	85	64	10	10	0	0	10	10	117	98	
Rhode Island	847	597	41.9%	382	258	465	339	0	0	382	258	350	250	0	0	350	250	3	1	0	0	3	1	113	87	
Vermont	380	329	15.5%	192	160	188	169	57	51	135	108	72	63	0	0	72	63	2	2	0	0	2	2	114	104	
Middle Atlantic	9,849	7,784	26.5%	3,315	2,431	6,534	5,353	110	101	3,013	2,185	3,359	2,711	167	126	3,192	2,585	295	275	25	18	270	256	3,072	2,511	
New Jersey	4,213	3,573	17.9%	1,471	1,216	2,742	2,357	110	101	1,204	995	1,402	1,213	149	113	1,252	1,100	191	185	8	6	183	179	1,307	1,078	
New York	4,688	3,429	36.7%	1,618	1,017	3,070	2,413	0	0	1,599	1,002	1,742	1,308	10	9	1,732	1,299	26	21	9	6	16	16	1,322	1,098	
Pennsylvania	947	781	21.2%	225	198	722	583	0	0	210	188	216	190	8	4	208	186	78	68	7	7	71	61	443	336	
East North Central	6,974	3,787	84.1%	4,907	2,201	2,067	1,586	1,014	655	3,876	1,534	1,143	874	15	11	1,128	863	74	66	1	2	73	64	866	659	
Illinois	2,524	1,203	109.8%	1,427	399	1,097	804	2	2	1,421	397	682	507	4	0	678	507	4	1	0	0	4	1	415	295	
Indiana	1,304	687	89.7%	1,053	493	252	195	453	337	598	154	153	97	2	2	151	95	7	7	0	0	7	7	94	92	
Michigan	1,038	561	84.9%	814	387	224	175	80	79	733	308	86	72	NM	0	85	72	4	4	0	0	4	4	134	99	
Ohio	1,154	848	36.2%	859	598	295	250	7	7	845	584	134	120	5	5	129	115	35	32	1	2	34	30	133	105	
Wisconsin	953	487	95.5%	754	325	199	162	472	230	278	91	89	76	4	4	86	73	24	22	0	0	24	22	89	68	
West North Central	3,553	3,014	17.9%	2,468	2,177	1,085	837	221	64	2,247	2,112	417	356	0	0	416	355	47	39	0	0	47	39	622	443	
Iowa	626	423	48.1%	352	203	274	219	141	8	210	195	154	130	0	0	154	130	11	8	0	0	11	8	109	81	
Kansas	133	107	24.8%	59	55	75	52	2	3	57	52	23	19	0	0	23	19	1	0	0	0	1	0	51	32	
Minnesota	2,071	1,925	7.6%	1,853	1,761	218	164	41	30	1,812	1,731	63	46	0	0	63	46	21	19	0	0	21	19	134	98	
Missouri	626	478	30.9%	142	100	484	378	30	16	112	84	167	152	0	0	166	151	11	9	0	0	11	9	306	218	
Nebraska	91	77	18.7%	60	55	31	22	7	7	53	48	8	7	0	0	8	7	3	2	0	0	3	2	20	13	
North Dakota	1	1	28.5%	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1	
South Dakota	4	4	8.7%	2	2	2	2	0	0	2	2	1	1	0	0	1	1	0	0	0	0	0	0	1	1	
South Atlantic	38,760	30,115	28.7%	33,426	26,149	5,334	3,966	12,265	9,252	21,019	16,767	1,095	959	135	124	960	835	336	329	7	6	329	323	4,046	2,807	
Delaware	195	172	13.2%	58	50	137	122	6	5	49	44	31	28	3	1	28	26	11	10	0	0	11	10	99	85	
District of Columbia	179	144	24.0%	26	16	152	129	0	0	26	16	59	54	0	0	59	54	0	0	0	0	0	0	93	75	
Florida	12,232	9,133	33.9%	9,951	7,703	2,282	1,430	9,134	6,888	806	807	233	181	7	6	226	175	17	17	3	3	14	14	2,042	1,242	
Georgia	6,561	4,498	45.9%	6,173	4,177	388	321	611	504	5,559	3,672	65	55	2	2	62	53	223	221	0	0	223	221	103	47	
Maryland	1,723	1,464	17.7%	659	553	1,064	911	7	7	635	532	293	272	17	15	277	257	25	25	0	0	25	25	762	628	
North Carolina	10,768	9,225	16.7%	10,249	8,835	518	390	731	665	9,415	8,072	248	221	104	98	144	122	14	13	0	0	14	13	360	255	
South Carolina	2,526	2,370	6.6%	2,102	2,000	424	370	8	7	2,090	1,990	83	71	0	0	83	71	40	41	4	3	37	38	304	261	
Virginia	4,548	3,089	47.2%	4,208	2,814	340	275	1,769	1,177	2,437	1,636	76	73	2	1	74	71	4	3	0	0	4	3	262	201	
West Virginia	29	19	50.7%	0	0	29	19	0	0	0	0	7	6	0	0	7	6	1	0	0	0	1	0	20	13	
East South Central	2,135	1,288	65.8%	1,921	1,120	214	168	68	63	1,843	1,047	116	100	5	4	112	96	9	8	6	5	3	3	99	70	
Alabama	834	423	97.2%	813	407	21	16	24	21	789	385	16	11	0	0	16	11	1	1	0	0	1	1	5	4	
Kentucky	136	101	34.6%	43	41	93	60	42	39	NM	1	33	24	0	0	33	24	1	1	0	0	1	1	58	35	
Mississippi	472	385	22.7%	452	371	21	14	0	0	452	371	10	6	0	0	10	6	1	1	0	0	1	1	10	7	
Tennessee	693	380	82.6%	613	301	80	78	2	2	601	290	58	58	5	4	53	54	6	5	6	5	0	0	26	24	
West South Central	23,960	15,686	52.7%	20,708	13,326	3,252	2,360	133	114	20,541	13,191	496	441	21	19	475	422	43	30	13	3	30	27	2,747	1,911	
Arkansas	853	554	54.0%	656	407	197	146	15	5	621	383	80	71	17	17	63	54	32	26	3	3	29	23	105	69	
Louisiana	404	355	14.0%	167	129	238	226	34	31	133	98	17	16	0	0	17	16	0	0	0	0	0	0	221	210	
Oklahoma	146	111	31.7%	74	68	72	43	70	64	4	3	10	7	0	0	10	7	1	1	0	0	1	1	62	36	
Texas	22,557	14,666	53.8%	19,811	12,722	2,745	1,944	14	13	19,784	12,707	389	347	4	2	385	345	10	3	10	0	0	3	2,360	1,596	
Mountain	28,638	23,689	20.9%	21,600	17,866	7,038	5,822	1,170	1,182	20,335	16,608	1,474	1,444	81	72	1,393	1,372	123	90	14	4	109	86	5,537	4,365	
Arizona	8,954	8,218	9.0%	5,652	5,334	3,302	2,884	637	654	4,993	4,663	751	816	20	17	731	799	14	12	NM	0	12	12	2,559	2,073	
Colorado	3,342	2,373	40.9%	2,155	1,478	1,187	895	12	12	2,130	1,457	310	253	13	9	297	244	20	17	0	0	20	17	871	634	
Idaho	651	634	2.7%	492	529	160	105	0	0	489	526	10	9	0	0	10	9	28	12	3	2	25	10	124	87	
Montana	78	70	11.0%	30	32	48	38	0	0	30	32	13	11	0	0	13	11	0	0	0	0	0	0	35	27	
Nevada	9,033	6,566	37.6%	7,881	5,644	1,152	922	171	169																	

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, October 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	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 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	1	2	-66.2%	1	2	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	1	2	-66.2%	1	2	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	100	74	35.2%	0	0	100	74	0	0	0	0
Arizona	68	56	19.7%	0	0	68	56	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	32	17	84.2%	0	0	32	17	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	189	147	28.4%	0	0	189	147	0	0	0	0
California	189	147	28.4%	0	0	189	147	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	290	223	30.0%	1	2	289	221	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 October 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	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 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	27	4.0%	28	27	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	27	4.0%	28	27	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	822	777	5.8%	0	0	822	777	0	0	0	0
Arizona	649	634	2.3%	0	0	649	634	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	170	143	19.4%	0	0	170	143	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	1,904	1,840	3.5%	0	0	1,904	1,840	0	0	0	0
California	1,904	1,840	3.5%	0	0	1,904	1,840	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	2,755	2,644	4.2%	28	27	2,727	2,617	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-October 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
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	48,480	35,505	12,819	8	148
February	39,695	28,495	11,053	6	141
March	34,121	24,083	9,879	5	154
April	30,629	21,949	8,549	3	127
May	34,860	26,335	8,366	7	152
June	41,535	31,863	9,514	8	149
July	49,218	37,806	11,255	8	149
August	48,097	36,215	11,720	9	152
Sept	37,097	28,074	8,881	9	133
October	31,357	23,314	7,907	7	128
Year to Date					
2020	357,620	269,108	86,938	58	1,516
2021	433,110	324,341	107,318	72	1,379
2022	395,088	293,640	99,944	70	1,434
Rolling 12 Months Ending in October					
2021	510,841	380,585	128,505	86	1,665
2022	462,276	341,993	118,477	84	1,722

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-October 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
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	1,081	214	79	39	750
February	933	182	65	38	648
March	1,019	172	80	27	739
April	936	155	72	20	690
May	956	145	67	22	721
June	969	174	57	37	700
July	991	222	48	41	681
August	990	207	57	41	687
Sept	911	189	44	40	639
October	970	172	48	37	713
Year to Date					
2020	8,563	1,350	576	322	6,315
2021	9,358	1,776	557	363	6,662
2022	9,757	1,832	616	342	6,967
Rolling 12 Months Ending in October					
2021	11,197	2,062	696	441	7,997
2022	11,700	2,209	726	426	8,340

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.

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-October 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
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	49,561	35,719	12,898		46	898
February	40,628	28,677	11,118		44	790
March	35,140	24,256	9,960		32	893
April	31,565	22,104	8,621		23	817
May	35,816	26,481	8,433		29	873
June	42,503	32,037	9,571		46	849
July	50,209	38,027	11,303		49	830
August	49,087	36,422	11,777		50	838
Sept	38,008	28,263	8,924		48	772
October	32,328	23,486	7,955		45	842
Year to Date						
2020	366,183	270,457	87,514		381	7,831
2021	442,468	326,118	107,875		435	8,040
2022	404,845	295,472	100,560		411	8,402
Rolling 12 Months Ending in October						
2021	522,038	382,648	129,201		527	9,662
2022	473,976	344,202	119,203		510	10,062

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-October 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
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	5,019	2,419	2,525	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	1,878	1,411	411	20	36
August	1,866	1,386	429	19	33
Sept	1,788	1,438	298	12	40
October	1,827	1,460	321	13	33
Year to Date					
2020	14,838	11,572	2,730	196	341
2021	18,174	14,241	3,356	212	365
2022	20,527	14,450	5,539	182	357
Rolling 12 Months Ending in October					
2021	21,344	16,582	4,073	254	434
2022	23,987	17,059	6,285	219	423

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-October 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
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	170	8	32	15	116
Year to Date					
2020	1,398	48	134	217	998
2021	1,739	68	227	280	1,164
2022	1,887	94	277	321	1,196
Rolling 12 Months Ending in October					
2021	2,071	78	272	332	1,389
2022	2,221	106	327	371	1,416

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-October 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
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	327	22	151
October	1,998	1,468	353	28	149
Year to Date					
2020	16,236	11,620	2,864	413	1,339
2021	19,913	14,309	3,583	492	1,529
2022	22,415	14,544	5,815	502	1,553
Rolling 12 Months Ending in October					
2021	23,414	16,660	4,345	586	1,823
2022	26,208	17,165	6,613	591	1,839

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-October 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
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
Year to Date					
2020	2,554	1,876	547	1	131
2021	2,498	1,889	503	0	106
2022	2,338	1,839	395	2	101
Rolling 12 Months Ending in October					
2021	3,021	2,273	614	0	134
2022	2,909	2,273	NM	3	122

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-October 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
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
Year to Date					
2020	637	13	104	3	516
2021	638	14	96	2	526
2022	608	17	104	11	475
Rolling 12 Months Ending in October					
2021	782	17	116	2	646
2022	729	23	NM	15	571

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 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2012-October 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
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
Year to Date					
2020	3,190	1,889	651	4	647
2021	3,137	1,904	599	3	631
2022	2,945	1,856	499	14	576
Rolling 12 Months Ending in October					
2021	3,803	2,291	730	3	780
2022	3,639	2,296	NM	18	693

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-October 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
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	984,729	502,477	425,152	3,964	53,136
February	834,731	416,644	367,725	3,540	46,823
March	805,553	406,719	345,092	3,666	50,076
April	770,873	391,568	330,816	3,414	45,076
May	947,353	485,686	411,074	3,450	47,143
June	1,166,613	616,496	499,049	3,575	47,494
July	1,420,322	743,095	621,194	4,223	51,810
August	1,399,021	718,752	623,538	4,330	52,400
Sept	1,144,961	576,692	516,827	3,913	47,529
October	972,892	491,295	430,349	3,298	47,950
Year to Date					
2020	10,219,503	5,320,395	4,341,395	43,627	514,085
2021	9,706,369	4,964,590	4,220,513	38,039	483,226
2022	10,447,049	5,349,424	4,570,814	37,374	489,437
Rolling 12 Months Ending in October					
2021	11,414,971	5,840,348	4,940,687	46,239	587,697
2022	12,244,519	6,261,276	5,346,818	44,870	591,555

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 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2012-October 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
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	113,168	4,766	28,988	6,969	72,445
February	99,770	3,977	25,617	6,118	64,058
March	104,807	3,772	26,380	6,122	68,532
April	94,332	3,144	23,069	5,540	62,579
May	95,531	3,991	24,966	5,205	61,369
June	96,302	4,440	26,375	5,109	60,378
July	103,170	5,488	29,990	5,571	62,120
August	102,936	5,338	27,741	5,735	64,123
Sept	95,355	4,255	24,980	5,087	61,033
October	96,222	3,746	24,430	5,121	62,925
Year to Date					
2020	1,085,121	39,486	273,541	65,650	706,444
2021	1,012,630	40,432	255,993	59,054	657,151
2022	1,001,594	42,917	262,538	56,576	639,563
Rolling 12 Months Ending in October					
2021	1,220,133	47,972	309,428	72,248	790,485
2022	1,211,231	51,588	314,768	68,615	776,260

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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2012-October 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
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	1,097,897	507,243	454,141	10,933	125,581
February	934,501	420,621	393,342	9,658	110,881
March	910,361	410,492	371,472	9,788	118,609
April	865,205	394,711	353,884	8,954	107,656
May	1,042,884	489,677	436,040	8,655	108,512
June	1,262,915	620,935	525,424	8,684	107,872
July	1,523,492	748,584	651,184	9,793	113,930
August	1,501,957	724,090	651,279	10,065	116,523
Sept	1,240,316	580,947	541,807	9,000	108,562
October	1,069,114	495,041	454,779	8,419	110,875
Year to Date					
2020	11,304,623	5,359,880	4,614,937	109,278	1,220,529
2021	10,718,999	5,005,022	4,476,506	97,093	1,140,378
2022	11,448,643	5,392,341	4,833,352	93,950	1,129,000
Rolling 12 Months Ending in October					
2021	12,635,104	5,888,320	5,250,115	118,487	1,378,183
2022	13,455,749	6,312,864	5,661,586	113,485	1,367,814

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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 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2012-October 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
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	18,231	1,820	14,966	1,259	186
July	18,147	1,796	14,819	1,352	181
August	17,490	1,715	14,303	1,285	187
Sept	16,899	1,611	13,872	1,243	173
October	17,800	1,715	14,531	1,367	187
Year to Date					
2020	212,173	19,699	175,108	15,202	2,164
2021	194,521	19,104	159,450	13,783	2,184
2022	179,427	17,611	147,083	12,984	1,749
Rolling 12 Months Ending in October					
2021	234,848	22,976	192,537	16,718	2,617
2022	216,782	21,337	177,665	15,672	2,107

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-October 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
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	336	0	169	76	91
October	368	0	196	69	103
Year to Date					
2020	3,359	3	1,834	693	829
2021	3,348	5	1,791	602	950
2022	3,802	4	2,092	698	1,008
Rolling 12 Months Ending in October					
2021	4,000	5	2,144	729	1,121
2022	4,484	5	2,456	837	1,187

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-October 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
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	18,569	1,820	15,150	1,324	274
July	18,500	1,796	15,009	1,417	277
August	17,827	1,715	14,475	1,359	278
Sept	17,235	1,611	14,041	1,318	264
October	18,168	1,715	14,727	1,435	290
Year to Date					
2020	215,532	19,702	176,943	15,895	2,993
2021	197,869	19,109	161,241	14,385	3,134
2022	183,229	17,614	149,175	13,682	2,757
Rolling 12 Months Ending in October					
2021	238,848	22,982	194,681	17,447	3,738
2022	221,266	21,342	180,120	16,509	3,294

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 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2012-October 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
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
Year to Date					
2020	12,927	233	10,808	1,877	9
2021	12,712	201	10,414	2,090	6
2022	12,073	230	9,878	1,965	1
Rolling 12 Months Ending in October					
2021	15,301	248	12,581	2,464	8
2022	14,584	281	11,906	2,396	2

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.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2012-October 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
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
Year to Date					
2020	1,380	0	634	590	156
2021	1,420	0	708	565	147
2022	1,298	0	685	501	112
Rolling 12 Months Ending in October					
2021	1,690	0	832	680	179
2022	1,590	0	850	602	137

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-October 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
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
Year to Date					
2020	14,307	233	11,442	2,467	165
2021	14,132	201	11,123	2,655	154
2022	13,372	230	10,563	2,466	112
Rolling 12 Months Ending in October					
2021	16,991	248	13,413	3,144	186
2022	16,174	281	12,755	2,999	139

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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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-October 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
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	27,075	3,652	10,263	101	13,059
February	27,783	4,156	11,627	94	11,906
March	26,586	3,299	10,810	68	12,409
April	22,968	2,362	8,365	73	12,169
May	26,453	3,738	9,781	110	12,823
June	28,787	4,128	11,346	129	13,184
July	31,141	5,111	12,218	119	13,692
August	30,163	5,040	11,672	171	13,281
Sept	25,751	3,849	10,410	81	11,411
October	23,201	3,066	9,392	42	10,701
Year to Date					
2020	264,108	26,240	103,652	495	133,721
2021	274,621	35,187	108,419	813	130,202
2022	269,909	38,401	105,884	988	124,636
Rolling 12 Months Ending in October					
2021	328,894	40,553	130,462	925	156,953
2022	323,541	45,082	127,020	1,173	150,266

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 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2012-October 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
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	61,142	289	2,243	199	58,410
October	62,755	242	2,080	149	60,284
Year to Date					
2020	712,844	2,558	20,715	3,093	686,478
2021	725,442	2,730	18,088	2,462	702,162
2022	662,153	2,852	20,716	2,652	635,934
Rolling 12 Months Ending in October					
2021	872,661	3,223	22,396	2,964	844,079
2022	807,698	3,641	24,432	3,148	776,476

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-October 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
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	97,076	3,890	12,639	383	80,164
February	91,730	4,454	13,549	375	73,352
March	91,181	3,637	12,817	297	74,430
April	87,947	2,606	10,251	244	74,847
May	95,226	4,002	11,807	384	79,032
June	96,391	4,409	13,405	495	78,082
July	100,613	5,442	14,232	446	80,494
August	99,050	5,367	13,776	545	79,362
Sept	86,892	4,138	12,653	280	69,821
October	85,956	3,308	11,472	191	70,985
Year to Date					
2020	976,952	28,798	124,366	3,588	820,199
2021	1,000,063	37,917	126,507	3,275	832,364
2022	932,062	41,253	126,600	3,640	760,569
Rolling 12 Months Ending in October					
2021	1,201,554	43,776	152,858	3,889	1,001,032
2022	1,131,239	48,723	151,452	4,321	926,742

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, October 2022 and October 2021 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	1	1	-10.0%	0	0	1	1	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	-10.0%	0	0	1	1	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	587	759	-23.0%	0	0	586	758	0	0	2	2
New Jersey	0	23	-100.0%	0	0	0	23	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	587	737	-20.0%	0	0	586	735	0	0	2	2
East North Central	6,189	7,516	-18.0%	3,767	4,194	2,385	3,292	2	1	35	29
Illinois	1,349	1,805	-25.0%	59	10	1,261	1,774	NM	0	30	20
Indiana	1,402	1,631	-14.0%	1,264	1,431	137	199	1	1	0	0
Michigan	1,764	1,659	6.3%	1,748	1,645	15	14	0	0	NM	0
Ohio	1,099	1,426	-23.0%	126	121	973	1,305	0	0	0	0
Wisconsin	575	995	-42.0%	570	987	0	0	0	0	5	9
West North Central	7,014	7,124	-1.5%	6,955	7,052	0	0	2	2	57	69
Iowa	658	997	-34.0%	618	952	0	0	1	1	38	44
Kansas	971	718	35.0%	971	718	0	0	0	0	0	0
Minnesota	680	654	4.0%	677	651	0	0	0	0	3	3
Missouri	2,106	2,409	-13.0%	2,105	2,408	0	0	1	1	0	0
Nebraska	992	949	4.5%	978	931	0	0	0	0	13	18
North Dakota	1,579	1,397	13.0%	1,576	1,394	0	0	0	0	3	4
South Dakota	29	0	--	29	0	0	0	0	0	0	0
South Atlantic	2,356	3,057	-23.0%	2,011	2,436	334	610	0	0	12	11
Delaware	0	4	-100.0%	0	0	0	4	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	486	633	-23.0%	485	632	0	0	0	0	NM	1
Georgia	328	330	-0.4%	325	327	0	0	0	0	NM	3
Maryland	51	121	-58.0%	0	0	51	121	0	0	0	0
North Carolina	98	327	-70.0%	96	325	0	0	0	0	3	2
South Carolina	324	462	-30.0%	320	461	3	1	0	0	0	1
Virginia	5	41	-88.0%	0	37	0	0	0	0	5	4
West Virginia	1,064	1,139	-6.6%	784	655	280	484	0	0	0	0
East South Central	3,432	3,307	3.8%	3,226	3,133	197	165	0	0	8	8
Alabama	1,204	1,124	7.1%	1,203	1,124	0	0	0	0	NM	0
Kentucky	1,428	1,440	-0.8%	1,428	1,440	0	0	0	0	0	0
Mississippi	244	279	-13.0%	46	113	197	165	0	0	0	0
Tennessee	557	465	20.0%	550	456	0	0	0	0	7	8
West South Central	5,729	7,264	-21.0%	2,514	3,473	3,215	3,786	0	0	1	5
Arkansas	783	1,071	-27.0%	609	796	173	274	0	0	1	1
Louisiana	232	681	-66.0%	139	430	93	251	0	0	0	0
Oklahoma	280	619	-55.0%	280	614	0	0	0	0	0	4
Texas	4,434	4,893	-9.4%	1,486	1,633	2,948	3,261	0	0	0	0
Mountain	5,676	6,144	-7.6%	4,819	5,380	849	757	0	0	8	7
Arizona	600	984	-39.0%	600	984	0	0	0	0	0	0
Colorado	924	1,059	-13.0%	924	1,059	0	0	0	0	0	0
Idaho	NM	0	NM	0	0	0	0	0	0	NM	0
Montana	703	655	7.4%	0	0	702	654	0	0	0	1
Nevada	129	182	-29.0%	46	114	83	68	0	0	0	0
New Mexico	559	538	3.9%	559	538	0	0	0	0	0	0
Utah	812	1,104	-26.0%	791	1,069	21	35	0	0	0	0
Wyoming	1,949	1,624	20.0%	1,899	1,617	43	0	0	0	8	6
Pacific Contiguous	335	314	6.8%	0	0	329	308	0	0	6	6
California	5	5	2.1%	0	0	0	0	0	0	5	5
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	330	308	6.9%	0	0	329	308	0	0	1	1
Pacific Noncontiguous	NM	87	NM	NM	12	NM	69	3	5	0	0
Alaska	NM	32	NM	NM	12	NM	14	3	5	0	0
Hawaii	0	55	-100.0%	0	0	0	55	0	0	0	0
U.S. Total	31,357	35,574	-12.0%	23,314	25,681	7,907	9,746	7	9	128	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 October 2022 and October 2021 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	141	284	-50.0%	0	0	141	284	0	0	0	0
Connecticut	0	158	-100.0%	0	0	0	158	0	0	0	0
Maine	10	10	-4.6%	0	0	10	10	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	132	116	13.0%	0	0	132	116	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	11,374	14,711	-23.0%	0	0	11,359	14,696	0	0	16	14
New Jersey	204	380	-46.0%	0	0	204	380	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	11,171	14,330	-22.0%	0	0	11,155	14,316	0	0	16	14
East North Central	85,752	94,707	-9.5%	50,262	56,660	35,097	37,668	14	9	379	369
Illinois	20,885	22,380	-6.7%	878	880	19,700	21,203	3	3	305	295
Indiana	21,885	24,653	-11.0%	20,114	22,781	1,760	1,865	11	6	0	0
Michigan	16,901	17,389	-2.8%	16,761	17,264	136	125	0	0	3	0
Ohio	15,389	16,477	-6.6%	1,888	2,001	13,501	14,476	0	0	0	0
Wisconsin	10,692	13,807	-23.0%	10,621	13,733	0	0	0	0	71	74
West North Central	82,260	86,590	-5.0%	81,544	85,926	0	0	22	15	694	649
Iowa	8,619	11,399	-24.0%	8,187	11,008	0	0	13	9	418	381
Kansas	11,363	10,795	5.3%	11,363	10,795	0	0	0	0	0	0
Minnesota	7,691	7,851	-2.0%	7,649	7,812	0	0	6	3	36	36
Missouri	26,250	28,978	-9.4%	26,247	28,976	0	0	3	2	0	0
Nebraska	10,153	10,065	0.9%	9,944	9,858	0	0	0	0	210	207
North Dakota	17,029	16,567	2.8%	17,000	16,541	0	0	0	0	29	26
South Dakota	1,154	934	24.0%	1,154	934	0	0	0	0	0	0
South Atlantic	43,971	55,311	-21.0%	37,528	48,358	6,326	6,827	3	7	114	119
Delaware	69	168	-59.0%	0	0	69	168	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,819	7,674	-24.0%	5,813	7,668	0	0	0	0	6	7
Georgia	7,335	9,432	-22.0%	7,301	9,400	0	0	0	0	34	33
Maryland	1,792	2,063	-13.0%	0	0	1,792	2,063	0	0	0	0
North Carolina	4,892	8,107	-40.0%	4,865	8,071	0	7	3	7	24	22
South Carolina	4,892	5,554	-12.0%	4,852	5,522	37	27	0	0	3	4
Virginia	1,419	1,382	2.7%	1,372	1,288	0	41	0	0	47	53
West Virginia	17,752	20,931	-15.0%	13,325	16,410	4,427	4,521	0	0	0	0
East South Central	42,439	44,654	-5.0%	39,780	42,038	2,589	2,538	0	0	71	78
Alabama	12,203	12,205	0.0%	12,198	12,205	0	0	0	0	NM	0
Kentucky	18,606	20,424	-8.9%	18,606	20,424	0	0	0	0	0	0
Mississippi	4,136	4,027	2.7%	1,547	1,489	2,589	2,538	0	0	0	0
Tennessee	7,494	7,997	-6.3%	7,428	7,920	0	0	0	0	66	78
West South Central	70,163	75,594	-7.2%	35,530	39,504	34,601	36,070	0	0	32	20
Arkansas	10,310	11,374	-9.4%	8,235	9,283	2,069	2,085	0	0	6	5
Louisiana	4,709	5,037	-6.5%	2,717	3,528	1,993	1,509	0	0	0	0
Oklahoma	5,104	6,328	-19.0%	5,077	6,313	0	0	0	0	26	15
Texas	50,040	52,855	-5.3%	19,501	20,380	30,539	32,475	0	0	0	0
Mountain	56,107	58,359	-3.9%	48,685	51,550	7,339	6,735	0	0	83	75
Arizona	6,686	7,047	-5.1%	6,686	7,047	0	0	0	0	0	0
Colorado	10,139	11,315	-10.0%	10,139	11,315	0	0	0	0	0	0
Idaho	3	3	-3.4%	0	0	0	0	0	0	3	3
Montana	5,958	5,584	6.7%	0	64	5,954	5,516	0	0	3	4
Nevada	1,335	1,182	13.0%	731	657	604	525	0	0	0	0
New Mexico	6,328	5,700	11.0%	6,328	5,700	0	0	0	0	0	0
Utah	8,803	10,349	-15.0%	8,459	10,024	344	325	0	0	0	0
Wyoming	16,856	17,180	-1.9%	16,342	16,743	437	370	0	0	77	68
Pacific Contiguous	2,050	1,906	7.6%	0	0	2,005	1,851	0	0	45	55
California	41	49	-17.0%	0	0	0	0	0	0	41	49
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,009	1,857	8.2%	0	0	2,005	1,851	0	0	5	6
Pacific Noncontiguous	830	995	-17.0%	310	306	488	648	32	42	0	0
Alaska	459	471	-2.4%	310	306	118	123	32	42	0	0
Hawaii	370	525	-29.0%	0	0	370	525	0	0	0	0
U.S. Total	395,088	433,110	-8.8%	293,640	324,341	99,944	107,318	70	72	1,434	1,379

Displayed values of zero may 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 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, October 2022 and October 2021 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	19	19	-3.0%	NM	4	13	11	2	3	1	2
Connecticut	6	9	-33.0%	1	1	NM	7	1	0	0	1
Maine	3	5	-47.0%	0	0	1	2	0	2	1	1
Massachusetts	5	4	45.0%	NM	2	4	1	NM	0	NM	0
New Hampshire	1	1	-14.0%	0	0	NM	0	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	0	0	NM	NM	0
Vermont	NM	1	NM	NM	1	0	0	0	0	0	0
Middle Atlantic	54	29	84.0%	NM	10	45	16	2	1	2	3
New Jersey	2	2	-5.0%	0	0	2	2	NM	0	0	0
New York	29	17	71.0%	NM	10	23	6	NM	0	0	1
Pennsylvania	23	11	120.0%	0	0	20	8	1	0	2	2
East North Central	108	97	11.0%	85	71	22	26	0	0	1	0
Illinois	5	6	-27.0%	2	1	3	5	0	0	0	0
Indiana	11	9	30.0%	11	9	0	0	0	0	0	0
Michigan	21	25	-17.0%	21	25	0	0	NM	0	0	0
Ohio	24	25	-3.4%	4	5	20	20	0	0	0	0
Wisconsin	47	32	47.0%	47	32	0	0	NM	0	NM	0
West North Central	114	123	-7.2%	112	122	NM	1	0	0	0	0
Iowa	26	22	16.0%	25	22	0	0	0	0	NM	0
Kansas	17	22	-21.0%	17	22	0	0	0	0	0	0
Minnesota	23	17	39.0%	21	16	NM	0	0	0	0	0
Missouri	23	42	-45.0%	23	42	0	0	0	0	0	0
Nebraska	13	10	33.0%	13	10	0	0	0	0	0	0
North Dakota	6	5	22.0%	6	5	0	0	0	0	0	0
South Dakota	NM	6	NM	NM	6	0	0	NM	0	0	0
South Atlantic	91	199	-54.0%	65	155	11	17	8	19	8	8
Delaware	NM	1	NM	0	0	NM	1	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	30	72	-58.0%	28	70	1	0	0	0	1	2
Georgia	9	10	-17.0%	NM	4	NM	2	0	1	3	3
Maryland	NM	7	NM	0	0	NM	7	NM	0	0	0
North Carolina	17	45	-62.0%	15	43	NM	1	NM	0	1	0
South Carolina	5	17	-70.0%	NM	15	0	0	NM	0	1	1
Virginia	24	34	-28.0%	NM	10	6	4	7	18	2	1
West Virginia	3	12	-76.0%	3	12	0	0	0	0	0	0
East South Central	15	21	-29.0%	14	20	NM	0	0	0	1	1
Alabama	1	1	82.0%	NM	0	NM	0	0	0	1	0
Kentucky	6	6	-0.8%	6	6	0	0	0	0	0	0
Mississippi	0	2	-81.0%	NM	1	0	0	0	0	0	0
Tennessee	7	13	-42.0%	7	13	0	0	0	0	0	0
West South Central	56	35	61.0%	41	24	15	10	NM	0	0	1
Arkansas	6	4	50.0%	NM	3	4	1	0	0	NM	0
Louisiana	4	4	6.5%	4	4	0	0	0	0	0	0
Oklahoma	5	8	-35.0%	5	8	0	0	0	0	0	0
Texas	41	19	114.0%	30	9	NM	10	NM	0	0	0
Mountain	27	33	-16.0%	26	31	1	2	NM	0	0	0
Arizona	5	6	-4.9%	5	6	0	0	NM	0	0	0
Colorado	NM	4	NM	NM	4	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	NM	1	NM	NM	0	NM	1	0	0	0	0
Nevada	2	1	75.0%	2	1	0	0	0	0	0	0
New Mexico	NM	8	NM	NM	8	0	0	0	0	0	0
Utah	7	5	38.0%	6	5	1	0	0	0	0	0
Wyoming	5	7	-32.0%	5	7	0	0	0	0	0	0
Pacific Contiguous	10	24	-58.0%	6	5	2	17	0	0	2	2
California	8	21	-62.0%	6	5	2	16	0	0	NM	0
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	2	3	-27.0%	NM	0	0	1	0	0	2	2
Pacific Noncontiguous	1,331	1,073	24.0%	1,103	874	209	180	1	1	18	18
Alaska	137	176	-22.0%	130	169	0	0	0	0	6	7
Hawaii	1,194	897	33.0%	973	705	209	180	1	1	11	12
U.S. Total	1,827	1,655	10.0%	1,460	1,317	321	280	13	23	33	34

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	1,875	373	403.0%	53	37	1,788	305	21	23	13	8
Connecticut	146	144	1.5%	7	7	NM	133	NM	1	1	2
Maine	306	38	700.0%	0	0	293	26	2	NM	10	5
Massachusetts	888	103	761.0%	34	21	848	78	NM	4	1	0
New Hampshire	487	65	646.0%	0	0	479	57	9	8	0	0
Rhode Island	NM	14	NM	1	0	NM	12	2	NM	NM	0
Vermont	12	9	37.0%	12	9	0	0	0	0	0	0
Middle Atlantic	2,132	1,510	41.0%	912	983	1,177	488	NM	14	29	25
New Jersey	44	49	-8.5%	0	1	43	47	NM	1	1	0
New York	1,817	1,231	48.0%	911	982	893	238	NM	6	6	6
Pennsylvania	271	230	18.0%	1	0	241	203	7	7	22	19
East North Central	1,100	1,190	-7.6%	830	918	260	259	2	5	7	7
Illinois	81	95	-15.0%	24	31	56	63	1	0	0	0
Indiana	188	220	-15.0%	163	212	24	7	0	1	1	1
Michigan	225	238	-5.4%	222	234	0	0	0	2	2	2
Ohio	232	249	-6.7%	51	59	179	188	1	0	2	1
Wisconsin	374	389	-3.8%	370	382	1	1	1	2	3	3
West North Central	1,255	1,458	-14.0%	1,233	1,438	NM	14	2	3	2	2
Iowa	224	204	9.6%	219	200	5	4	0	0	NM	0
Kansas	273	307	-11.0%	273	307	0	0	0	0	0	0
Minnesota	178	193	-7.9%	162	179	NM	10	2	2	2	2
Missouri	357	521	-32.0%	357	521	0	0	1	0	0	0
Nebraska	109	112	-2.2%	109	112	0	0	0	0	0	0
North Dakota	49	46	6.8%	49	46	0	0	0	0	0	0
South Dakota	65	74	-12.0%	65	74	0	0	NM	0	0	0
South Atlantic	2,275	2,276	-0.1%	1,682	1,652	395	396	121	157	77	71
Delaware	NM	36	NM	7	3	NM	33	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	670	572	17.0%	638	515	20	41	0	0	13	16
Georgia	182	149	22.0%	136	95	NM	23	6	3	29	28
Maryland	200	173	15.0%	14	5	185	168	NM	0	NM	0
North Carolina	222	350	-37.0%	200	323	NM	10	NM	1	12	16
South Carolina	143	141	1.2%	129	129	4	6	NM	0	10	7
Virginia	623	622	0.1%	369	358	127	107	114	153	13	5
West Virginia	189	233	-19.0%	189	225	0	9	0	0	0	0
East South Central	358	372	-4.0%	346	339	4	25	0	0	8	8
Alabama	20	35	-44.0%	10	6	4	25	0	0	7	5
Kentucky	115	126	-8.2%	115	126	0	0	0	0	0	0
Mississippi	10	12	-12.0%	10	10	0	0	0	0	1	2
Tennessee	212	200	6.2%	211	198	0	0	0	0	1	1
West South Central	452	519	-13.0%	276	332	172	182	NM	1	4	4
Arkansas	NM	81	NM	NM	66	22	15	0	0	NM	0
Louisiana	19	22	-14.0%	19	22	0	0	0	0	0	0
Oklahoma	48	61	-21.0%	46	60	0	0	0	0	2	1
Texas	306	355	-14.0%	NM	184	150	167	NM	1	2	3
Mountain	303	365	-17.0%	290	343	13	21	NM	0	0	0
Arizona	52	75	-30.0%	52	75	0	0	NM	0	0	0
Colorado	48	53	-9.2%	48	53	0	0	0	0	0	0
Idaho	0	0	-6.8%	0	0	0	0	0	0	0	0
Montana	9	14	-41.0%	NM	1	8	14	0	0	0	0
Nevada	16	14	17.0%	13	10	3	3	0	0	0	0
New Mexico	46	57	-20.0%	46	57	0	0	0	0	0	0
Utah	49	61	-19.0%	47	58	2	3	0	0	0	0
Wyoming	83	90	-7.7%	83	90	0	0	0	0	0	0
Pacific Contiguous	196	154	27.0%	60	60	101	37	3	1	33	55
California	162	122	33.0%	58	55	87	25	3	1	15	41
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	34	32	5.4%	NM	5	14	12	NM	0	17	14
Pacific Noncontiguous	10,582	9,957	6.3%	8,768	8,137	1,612	1,626	17	9	185	185
Alaska	1,330	1,298	2.4%	1,261	1,243	0	0	7	1	61	55
Hawaii	9,252	8,659	6.8%	7,506	6,894	1,612	1,626	10	8	124	130
U.S. Total	20,527	18,174	13.0%	14,450	14,241	5,539	3,356	182	212	357	365

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 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	121	104	17.0%	91	55	24	43	0	0	6	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	93	50	88.0%	87	44	0	0	0	0	6	6
Ohio	24	43	-45.0%	0	0	24	43	0	0	0	0
Wisconsin	4	11	-63.0%	4	11	0	0	0	0	0	0
West North Central	0	0	-100.0%	0	0	0	0	0	0	0	0
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	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	23	13	83.0%	21	11	0	0	0	0	2	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	21	11	99.0%	21	11	0	0	0	0	0	0
Georgia	2	2	-6.7%	0	0	0	0	0	0	2	2
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	82	140	-41.0%	79	137	0	0	0	0	2	3
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	79	137	-42.0%	79	137	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2	3	-13.0%	0	0	0	0	0	0	2	3
Mountain	14	6	142.0%	0	0	14	6	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	14	6	142.0%	0	0	14	6	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	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	240	262	-8.4%	192	202	38	49	0	0	10	10

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 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	951	787	21.0%	643	371	258	365	0	0	50	50
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	637	375	70.0%	587	324	0	0	0	0	50	50
Ohio	258	365	-29.0%	0	0	258	365	0	0	0	0
Wisconsin	55	47	18.0%	55	47	0	0	0	0	0	0
West North Central	2	4	-41.0%	0	0	0	0	2	0	0	4
Iowa	2	4	-41.0%	0	0	0	0	2	0	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	286	294	-2.7%	268	274	0	0	0	0	18	20
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	268	274	-2.1%	268	274	0	0	0	0	0	0
Georgia	18	20	-12.0%	0	0	0	0	0	0	18	20
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	955	1,276	-25.0%	921	1,244	0	0	0	0	34	32
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	921	1,244	-26.0%	921	1,244	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	34	32	6.3%	0	0	0	0	0	0	34	32
Mountain	137	138	-0.6%	0	0	137	138	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	137	138	-0.6%	0	0	137	138	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	2,338	2,498	-6.4%	1,839	1,889	395	503	2	0	101	106

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Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, October 2022 and October 2021 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	25,679	35,058	-27.0%	NM	66	24,791	33,805	321	439	531	747
Connecticut	12,462	12,350	0.9%	29	41	12,078	11,915	116	145	239	249
Maine	1,336	2,284	-42.0%	0	0	1,204	2,059	13	15	119	211
Massachusetts	5,228	8,464	-38.0%	NM	25	4,991	8,102	180	257	51	81
New Hampshire	2,555	4,126	-38.0%	0	0	2,535	4,106	4	4	15	16
Rhode Island	4,099	7,833	-48.0%	0	0	3,984	7,624	9	18	NM	191
Vermont	0	1	-92.0%	0	1	0	0	0	0	0	0
Middle Atlantic	123,067	123,543	-0.4%	6,341	7,094	113,850	114,443	411	567	2,465	1,439
New Jersey	17,524	21,858	-20.0%	NM	107	17,201	21,471	79	122	164	158
New York	32,975	34,690	-4.9%	6,242	6,973	26,156	27,022	293	388	284	308
Pennsylvania	72,568	66,995	8.3%	20	14	70,493	65,951	39	57	2,016	972
East North Central	104,173	103,497	0.7%	37,062	35,895	64,367	64,772	565	705	2,180	2,125
Illinois	14,871	15,998	-7.0%	1,323	2,774	13,047	12,582	146	230	354	413
Indiana	20,528	18,147	13.0%	9,631	8,223	9,919	8,957	61	84	917	882
Michigan	25,782	19,826	30.0%	10,429	8,293	14,852	11,024	234	243	268	266
Ohio	31,477	36,272	-13.0%	5,315	3,903	25,954	32,137	86	104	122	129
Wisconsin	11,515	13,253	-13.0%	10,364	12,701	595	73	38	44	519	436
West North Central	19,649	20,919	-6.1%	15,288	16,728	3,805	3,574	137	140	419	477
Iowa	3,570	4,383	-19.0%	3,216	4,104	0	0	44	28	311	251
Kansas	2,789	1,747	60.0%	2,754	1,624	0	0	0	0	35	123
Minnesota	6,346	8,959	-29.0%	3,995	6,571	2,285	2,305	40	43	26	40
Missouri	4,375	3,358	30.0%	2,791	2,011	1,520	1,269	53	68	12	10
Nebraska	740	581	27.0%	740	581	0	0	0	0	0	0
North Dakota	1,124	956	17.0%	1,113	946	0	0	0	0	11	10
South Dakota	706	933	-24.0%	681	891	0	0	0	0	25	42
South Atlantic	236,236	247,154	-4.4%	196,142	204,605	37,061	39,593	438	525	2,596	2,432
Delaware	3,221	1,323	143.0%	32	10	2,786	1,085	0	0	403	227
District of Columbia	NM	99	NM	0	0	0	0	NM	99	0	0
Florida	110,473	121,679	-9.2%	103,467	113,825	6,260	7,047	NM	28	715	779
Georgia	31,130	35,413	-12.0%	23,311	27,538	7,379	7,444	0	0	440	431
Maryland	10,155	10,605	-4.2%	3,099	2,920	6,845	7,408	192	258	20	20
North Carolina	37,237	31,482	18.0%	32,149	25,320	4,884	5,963	135	140	69	59
South Carolina	15,625	16,307	-4.2%	14,819	15,746	748	488	0	0	58	73
Virginia	26,838	27,488	-2.4%	19,114	18,681	7,071	8,218	11	0	642	589
West Virginia	1,488	2,758	-46.0%	152	565	1,088	1,940	0	0	249	253
East South Central	73,090	71,787	1.8%	52,063	51,960	19,266	18,125	65	63	1,696	1,638
Alabama	33,581	31,504	6.6%	13,648	12,722	19,162	17,934	0	0	771	849
Kentucky	8,444	8,658	-2.5%	8,288	8,414	78	143	0	0	78	102
Mississippi	24,508	25,685	-4.6%	24,246	25,457	25	35	0	0	237	194
Tennessee	6,556	5,940	10.0%	5,882	5,368	0	14	65	63	609	494
West South Central	218,121	214,762	1.6%	85,386	81,220	100,686	100,829	338	352	31,712	32,361
Arkansas	12,916	13,097	-1.4%	12,369	12,300	438	683	NM	44	71	70
Louisiana	37,762	38,759	-2.6%	22,824	24,250	2,050	2,290	58	59	12,830	12,160
Oklahoma	23,402	20,038	17.0%	15,742	11,903	7,378	7,818	0	0	281	317
Texas	144,042	142,868	0.8%	34,451	32,767	90,820	90,037	242	249	18,529	19,815
Mountain	79,741	60,435	32.0%	61,746	43,511	16,851	15,795	198	169	946	960
Arizona	33,305	26,830	24.0%	22,718	17,493	10,536	9,289	51	49	0	0
Colorado	9,879	7,415	33.0%	7,829	5,343	1,961	1,958	1	2	87	112
Idaho	2,493	2,309	8.0%	1,419	1,079	1,009	1,173	15	14	50	44
Montana	825	586	41.0%	705	416	114	164	0	0	5	5
Nevada	16,105	13,161	22.0%	14,964	11,614	847	1,299	22	18	272	230
New Mexico	8,279	5,080	63.0%	5,934	3,194	2,288	1,845	51	41	6	0
Utah	7,278	4,264	71.0%	6,965	3,987	NM	67	58	45	160	166
Wyoming	1,576	790	100.0%	1,211	386	1	0	0	0	364	403
Pacific Contiguous	90,977	83,491	9.0%	35,098	31,238	49,673	45,222	825	809	5,381	6,221
California	67,349	61,233	10.0%	21,667	19,624	40,037	35,047	715	787	4,930	5,776
Oregon	11,536	12,513	-7.8%	5,451	6,419	6,030	6,031	15	18	40	44
Washington	12,091	9,744	24.0%	7,980	5,195	3,606	4,144	94	4	411	401
Pacific Noncontiguous	2,159	2,162	-0.2%	2,133	2,143	0	0	1	0	24	19
Alaska	2,159	2,162	-0.2%	2,133	2,143	0	0	1	0	24	19
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	972,892	962,806	1.0%	491,295	474,461	430,349	436,157	3,298	3,768	47,950	48,420

Displayed values of zero may 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.B. Consumption of Natural Gas for Electricity Generation by State, by Sector, Year-to-Date through October 2022 and October 2021 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	343,372	336,500	2.0%	1,415	1,165	330,904	323,223	4,016	4,580	7,038	7,532
Connecticut	142,494	137,603	3.6%	263	438	138,077	132,611	1,340	1,477	2,814	3,078
Maine	23,199	18,900	23.0%	0	0	20,896	16,558	128	129	2,174	2,213
Massachusetts	97,748	97,374	0.4%	1,146	720	93,545	93,107	2,320	2,735	737	813
New Hampshire	29,811	29,214	2.0%	0	0	29,633	29,021	27	40	151	152
Rhode Island	50,112	53,397	-6.2%	0	0	48,753	51,926	197	194	1,162	1,277
Vermont	9	11	-19.0%	6	7	0	0	4	4	0	0
Middle Atlantic	1,341,771	1,250,923	7.3%	83,319	96,551	1,230,067	1,136,571	5,675	5,654	22,710	12,146
New Jersey	201,637	175,375	15.0%	1,097	884	197,723	171,820	1,193	1,141	1,624	1,530
New York	388,310	367,439	5.7%	81,939	95,557	299,454	264,753	3,781	4,007	3,135	3,121
Pennsylvania	751,825	708,109	6.2%	283	110	732,889	699,999	701	506	17,951	7,495
East North Central	1,140,389	963,532	18.0%	406,198	339,605	702,099	591,498	6,980	6,873	25,112	25,556
Illinois	172,649	149,766	15.0%	21,771	14,276	144,105	128,522	2,260	2,166	4,513	4,803
Indiana	196,948	172,070	14.0%	90,449	69,872	94,600	90,261	720	753	11,178	11,184
Michigan	245,026	198,404	23.0%	109,224	86,270	130,529	106,828	2,569	2,472	2,704	2,833
Ohio	388,991	315,907	23.0%	58,926	51,767	327,492	261,719	1,007	1,037	1,567	1,385
Wisconsin	136,774	127,385	7.4%	125,828	117,420	5,373	4,168	424	445	5,150	5,352
West North Central	222,075	207,045	7.3%	180,065	164,485	36,701	36,653	1,478	1,446	3,831	4,461
Iowa	43,584	36,568	19.0%	40,835	33,819	NM	0	415	386	2,334	2,363
Kansas	26,180	20,480	28.0%	25,548	19,366	0	0	0	0	632	1,114
Minnesota	69,059	74,712	-7.6%	44,077	49,280	24,172	24,589	428	412	382	432
Missouri	53,581	43,624	23.0%	40,288	30,813	12,529	12,064	630	624	135	122
Nebraska	9,695	9,716	-0.2%	9,690	9,692	0	0	5	24	0	0
North Dakota	11,805	12,266	-3.8%	11,684	12,100	0	0	0	0	121	165
South Dakota	8,171	9,679	-16.0%	7,944	9,415	0	0	0	0	227	264
South Atlantic	2,546,499	2,348,106	8.4%	2,116,151	1,965,470	401,510	352,255	4,696	4,872	24,142	25,509
Delaware	29,989	21,950	37.0%	489	207	25,864	18,545	0	0	3,636	3,199
District of Columbia	865	1,248	-31.0%	0	0	0	0	865	1,248	0	0
Florida	1,197,920	1,134,730	5.6%	1,116,188	1,071,738	74,010	54,873	283	277	7,439	7,842
Georgia	367,190	336,444	9.1%	281,391	275,960	82,071	56,651	0	0	3,728	3,833
Maryland	87,899	83,063	5.8%	24,521	19,315	60,937	61,528	2,246	2,033	196	187
North Carolina	382,086	288,862	32.0%	326,287	237,282	53,833	49,522	1,247	1,313	719	746
South Carolina	163,095	142,453	14.0%	149,878	136,174	12,565	5,431	0	1	651	846
Virginia	301,587	321,324	-6.1%	213,339	221,860	81,890	92,874	55	0	6,302	6,590
West Virginia	15,869	18,031	-12.0%	4,057	2,934	10,341	12,831	0	0	1,472	2,266
East South Central	922,444	799,105	15.0%	681,539	603,036	222,572	176,893	758	754	17,575	18,422
Alabama	380,163	315,819	20.0%	156,491	136,820	215,714	170,766	0	0	7,957	8,233
Kentucky	114,364	89,433	28.0%	106,766	82,665	6,722	5,912	0	0	876	855
Mississippi	317,035	300,538	5.5%	314,648	297,994	84	69	0	0	2,302	2,475
Tennessee	110,882	93,315	19.0%	103,634	85,556	51	146	758	754	6,440	6,859
West South Central	2,426,945	2,208,934	9.9%	993,953	863,675	1,104,820	1,024,057	4,073	3,842	324,098	317,360
Arkansas	153,294	115,656	33.0%	145,902	109,823	6,043	4,397	372	373	977	1,063
Louisiana	438,312	378,746	16.0%	290,171	245,469	22,563	18,813	556	699	125,023	113,764
Oklahoma	252,273	238,951	5.6%	174,747	162,595	74,375	73,226	0	0	3,152	3,130
Texas	1,583,065	1,475,581	7.3%	383,133	345,788	1,001,840	927,621	3,145	2,770	194,946	199,403
Mountain	735,403	766,758	-4.1%	575,614	601,058	148,091	153,396	1,799	1,932	9,900	10,372
Arizona	289,739	312,752	-7.4%	202,970	222,388	86,267	89,883	502	482	0	0
Colorado	105,215	100,404	4.8%	88,173	82,550	16,028	16,806	17	11	997	1,037
Idaho	27,849	32,223	-14.0%	16,959	21,442	10,324	10,180	136	141	430	459
Montana	4,991	4,853	2.9%	3,978	3,872	982	942	0	0	32	39
Nevada	157,118	167,809	-6.4%	142,158	152,496	12,310	12,648	217	216	2,434	2,449
New Mexico	71,156	72,709	-2.1%	49,230	49,649	21,242	21,946	510	551	174	563
Utah	67,776	65,569	3.4%	64,053	61,604	935	982	418	531	2,370	2,451
Wyoming	11,558	10,439	11.0%	8,092	7,057	4	9	0	0	3,463	3,373
Pacific Contiguous	745,807	804,469	-7.3%	289,077	308,789	394,051	425,966	7,896	8,086	54,783	61,628
California	560,245	586,724	-4.5%	179,927	181,759	321,943	339,648	7,528	7,868	50,847	57,448
Oregon	104,736	121,500	-14.0%	56,214	61,309	47,987	59,609	165	177	370	405
Washington	80,826	96,246	-16.0%	52,936	65,721	24,121	26,708	203	41	3,566	3,775
Pacific Noncontiguous	22,343	20,996	6.4%	22,092	20,758	0	0	2	0	248	239
Alaska	22,343	20,996	6.4%	22,092	20,758	0	0	2	0	248	239
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	10,447,049	9,706,369	7.6%	5,349,424	4,964,590	4,570,814	4,220,513	37,374	38,039	489,437	483,226

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	932	1,063	-12.0%	92	107	819	936	21	20	0	0
Connecticut	NM	12	NM	0	0	NM	12	0	0	0	0
Maine	NM	41	NM	0	0	NM	41	0	0	0	0
Massachusetts	250	285	-13.0%	0	0	250	285	0	0	0	0
New Hampshire	119	192	-38.0%	0	0	98	172	21	20	0	0
Rhode Island	416	406	2.6%	0	0	416	406	0	0	0	0
Vermont	104	126	-17.0%	92	107	NM	19	0	0	0	0
Middle Atlantic	2,699	2,859	-5.6%	0	0	2,594	2,772	39	39	66	48
New Jersey	348	382	-8.9%	0	0	338	373	10	9	0	0
New York	1,248	1,248	0.0%	0	0	1,248	1,248	0	0	0	0
Pennsylvania	1,102	1,230	-10.0%	0	0	1,008	1,151	29	30	66	48
East North Central	4,346	4,319	0.6%	850	812	3,450	3,500	25	7	20	0
Illinois	761	798	-4.6%	315	337	446	462	0	0	0	0
Indiana	612	597	2.5%	535	476	77	121	0	0	0	0
Michigan	1,593	1,478	7.8%	0	0	1,593	1,478	0	0	0	0
Ohio	655	790	-17.0%	0	0	655	790	0	0	0	0
Wisconsin	725	656	10.0%	0	0	679	650	25	7	20	0
West North Central	563	580	-2.8%	216	235	345	342	0	0	NM	2
Iowa	147	167	-12.0%	0	0	147	167	0	0	0	0
Kansas	113	98	16.0%	0	0	113	98	0	0	0	0
Minnesota	78	79	-1.0%	NM	52	NM	27	0	0	0	0
Missouri	112	122	-7.7%	NM	72	NM	50	0	0	0	0
Nebraska	110	111	-1.3%	110	111	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	3,412	3,606	-5.4%	204	205	3,090	3,230	NM	86	99	84
Delaware	117	119	-1.2%	0	0	109	111	0	0	NM	8
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	674	764	-12.0%	70	67	605	696	0	0	0	0
Georgia	484	479	1.0%	0	0	475	477	0	0	9	2
Maryland	91	95	-4.3%	0	0	91	94	0	1	0	0
North Carolina	765	771	-0.7%	0	0	765	707	0	64	0	0
South Carolina	239	234	2.1%	135	138	NM	22	0	0	81	74
Virginia	1,038	1,135	-8.5%	0	0	1,019	1,114	NM	21	0	0
West Virginia	NM	9	NM	0	0	NM	9	0	0	0	0
East South Central	459	452	1.6%	195	197	264	255	0	0	0	0
Alabama	91	89	2.2%	0	0	91	89	0	0	0	0
Kentucky	219	221	-1.1%	195	197	NM	25	0	0	0	0
Mississippi	NM	16	NM	0	0	NM	16	0	0	0	0
Tennessee	131	125	4.6%	0	0	131	125	0	0	0	0
West South Central	635	649	-2.2%	0	0	635	649	0	0	0	0
Arkansas	117	111	5.7%	0	0	117	111	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	43	NM	0	0	NM	43	0	0	0	0
Texas	474	495	-4.2%	0	0	474	495	0	0	0	0
Mountain	485	568	-15.0%	NM	46	378	449	65	74	0	0
Arizona	NM	35	NM	0	0	NM	35	0	0	0	0
Colorado	76	95	-20.0%	0	0	76	95	0	0	0	0
Idaho	100	113	-11.0%	NM	27	NM	44	42	41	0	0
Montana	NM	18	NM	NM	18	0	0	0	0	0	0
Nevada	105	123	-15.0%	0	0	105	123	0	0	0	0
New Mexico	NM	37	NM	0	0	NM	37	0	0	0	0
Utah	116	148	-22.0%	0	0	94	116	22	33	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,204	4,236	-0.8%	115	130	2,956	2,999	1,133	1,081	0	27
California	3,715	3,676	1.1%	NM	9	2,616	2,604	1,092	1,037	0	27
Oregon	429	491	-13.0%	108	121	281	327	NM	44	0	0
Washington	NM	69	NM	0	0	NM	69	0	0	0	0
Pacific Noncontiguous	65	76	-13.0%	0	0	0	0	65	76	0	0
Alaska	65	76	-13.0%	0	0	0	0	65	76	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	17,800	18,409	-3.3%	1,715	1,732	14,531	15,133	1,367	1,383	187	161

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	8,877	9,500	-6.6%	922	992	7,744	8,323	210	185	0	0
Connecticut	110	118	-6.3%	0	0	110	118	0	0	0	0
Maine	325	393	-17.0%	0	0	325	393	0	0	0	0
Massachusetts	2,552	2,721	-6.2%	0	0	2,552	2,721	0	0	0	0
New Hampshire	1,200	1,782	-33.0%	0	0	990	1,597	210	185	0	0
Rhode Island	3,645	3,314	10.0%	0	0	3,645	3,314	0	0	0	0
Vermont	1,045	1,172	-11.0%	922	992	123	180	0	0	0	0
Middle Atlantic	27,615	30,973	-11.0%	0	0	26,555	29,720	436	405	624	848
New Jersey	3,490	3,749	-6.9%	0	0	3,376	3,658	114	91	0	0
New York	12,527	12,897	-2.9%	0	0	12,527	12,897	0	0	0	0
Pennsylvania	11,598	14,327	-19.0%	0	0	10,652	13,165	322	314	624	848
East North Central	43,361	48,402	-10.0%	8,492	8,748	34,467	39,354	234	190	167	110
Illinois	7,708	8,591	-10.0%	3,194	3,502	4,514	5,090	0	0	0	0
Indiana	6,339	6,462	-1.9%	5,299	5,246	1,040	1,216	0	0	0	0
Michigan	15,022	17,512	-14.0%	0	0	15,022	17,512	0	0	0	0
Ohio	7,200	8,414	-14.0%	0	0	7,200	8,414	0	0	0	0
Wisconsin	7,092	7,423	-4.4%	0	0	6,691	7,123	234	190	167	110
West North Central	6,253	6,573	-4.9%	2,522	2,792	3,709	3,758	0	0	NM	22
Iowa	1,713	1,839	-6.8%	0	0	1,713	1,839	0	0	0	0
Kansas	1,130	1,060	6.5%	0	0	1,130	1,060	0	0	0	0
Minnesota	852	925	-7.9%	528	607	324	318	0	0	0	0
Missouri	1,230	1,319	-6.8%	688	778	542	541	0	0	0	0
Nebraska	1,307	1,407	-7.1%	1,307	1,407	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	NM	22	NM	0	0	0	0	0	0	NM	22
South Atlantic	34,731	38,595	-10.0%	2,216	2,749	31,326	34,021	252	897	936	929
Delaware	1,182	1,254	-5.8%	0	0	1,091	1,170	0	0	91	84
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,967	8,759	-20.0%	811	1,291	6,155	7,468	0	0	0	0
Georgia	4,980	5,108	-2.5%	0	0	4,942	5,044	0	0	38	64
Maryland	1,004	1,279	-21.0%	0	0	948	1,263	NM	16	0	0
North Carolina	7,431	8,282	-10.0%	0	0	7,431	7,606	0	676	0	0
South Carolina	2,448	2,476	-1.1%	1,405	1,458	236	238	0	0	807	781
Virginia	10,669	11,337	-5.9%	0	0	10,474	11,133	195	204	0	0
West Virginia	NM	99	NM	0	0	NM	99	0	0	0	0
East South Central	4,516	4,653	-3.0%	1,846	2,012	2,670	2,642	0	0	0	0
Alabama	900	909	-1.0%	0	0	900	909	0	0	0	0
Kentucky	2,113	2,296	-8.0%	1,846	2,012	267	285	0	0	0	0
Mississippi	182	167	9.1%	0	0	182	167	0	0	0	0
Tennessee	1,320	1,281	3.1%	0	0	1,320	1,281	0	0	0	0
West South Central	6,423	6,628	-3.1%	0	0	6,423	6,628	0	0	0	0
Arkansas	1,167	1,072	8.9%	0	0	1,167	1,072	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	428	415	3.1%	0	0	428	415	0	0	0	0
Texas	4,828	5,141	-6.1%	0	0	4,828	5,141	0	0	0	0
Mountain	4,945	5,785	-15.0%	433	468	3,898	4,588	615	729	0	0
Arizona	354	357	-0.9%	0	0	354	357	0	0	0	0
Colorado	762	972	-22.0%	0	0	762	972	0	0	0	0
Idaho	1,000	1,169	-14.0%	246	281	342	447	413	441	0	0
Montana	187	187	-0.1%	187	187	0	0	0	0	0	0
Nevada	1,091	1,256	-13.0%	0	0	1,091	1,256	0	0	0	0
New Mexico	342	373	-8.3%	0	0	342	373	0	0	0	0
Utah	1,208	1,471	-18.0%	0	0	1,007	1,183	202	288	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	42,050	42,773	-1.7%	1,179	1,343	30,292	30,417	10,579	10,738	0	275
California	36,855	37,035	-0.5%	66	88	26,624	26,388	10,166	10,284	0	275
Oregon	4,570	5,027	-9.1%	1,113	1,255	3,043	3,318	414	454	0	0
Washington	624	711	-12.0%	0	0	624	711	0	0	0	0
Pacific Noncontiguous	658	639	2.9%	0	0	0	0	658	639	0	0
Alaska	658	639	2.9%	0	0	0	0	658	639	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	179,427	194,521	-7.8%	17,611	19,104	147,083	159,450	12,984	13,783	1,749	2,184

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	258	293	-12.0%	0	0	249	283	9	9	0	0
Connecticut	72	99	-28.0%	0	0	72	99	0	0	0	0
Maine	16	19	-14.0%	0	0	7	9	9	9	0	0
Massachusetts	161	164	-2.2%	0	0	161	164	0	0	0	0
New Hampshire	9	10	-7.9%	0	0	9	10	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	384	413	-7.1%	0	0	301	320	84	93	0	0
New Jersey	80	107	-25.0%	0	0	55	80	25	26	0	0
New York	148	144	2.6%	0	0	109	99	39	45	0	0
Pennsylvania	157	163	-3.8%	0	0	137	142	20	21	0	0
East North Central	13	11	16.0%	3	3	0	0	10	8	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	2	-8.8%	0	0	0	0	1	2	0	0
Michigan	8	7	21.0%	0	0	0	0	8	7	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	18.0%	3	3	0	0	0	0	0	0
West North Central	39	34	13.0%	20	20	18	13	0	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	34	13.0%	20	20	18	13	0	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	419	404	3.6%	0	0	358	359	60	45	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	283	259	9.5%	0	0	253	242	30	17	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	41	51	-21.0%	0	0	41	51	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	95	94	1.0%	0	0	65	65	30	29	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	1	-100.0%	0	0	0	0	0	0	0	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	1	-100.0%	0	0	0	0	0	0	0	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	54	53	0.5%	0	0	54	53	0	0	0	0
California	35	30	17.0%	0	0	35	30	0	0	0	0
Oregon	8	10	-26.0%	0	0	8	10	0	0	0	0
Washington	11	13	-17.0%	0	0	11	13	0	0	0	0
Pacific Noncontiguous	38	39	-2.1%	0	0	0	0	38	39	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	38	39	-2.1%	0	0	0	0	38	39	0	0
U.S. Total	1,204	1,248	-3.5%	24	23	980	1,029	200	196	0	1

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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 October 2022 and October 2021 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	2,557	2,785	-8.2%	0	0	2,464	2,702	93	83	0	0
Connecticut	830	958	-13.0%	0	0	830	958	0	0	0	0
Maine	133	176	-24.0%	0	0	40	93	93	83	0	0
Massachusetts	1,506	1,556	-3.2%	0	0	1,506	1,556	0	0	0	0
New Hampshire	87	95	-8.1%	0	0	87	95	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,920	4,148	-5.5%	0	0	3,055	3,194	865	953	0	0
New Jersey	998	1,066	-6.3%	0	0	720	782	278	284	0	0
New York	1,438	1,509	-4.7%	0	0	1,047	1,045	391	464	0	0
Pennsylvania	1,484	1,573	-5.7%	0	0	1,288	1,368	196	205	0	0
East North Central	139	136	1.6%	31	30	0	0	107	107	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	15	15	1.6%	0	0	0	0	15	15	0	0
Michigan	92	92	0.4%	0	0	0	0	92	92	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	31	30	5.4%	31	30	0	0	0	0	0	0
West North Central	374	362	3.2%	198	171	176	181	0	10	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	374	362	3.2%	198	171	176	181	0	10	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	4,219	4,398	-4.1%	0	0	3,670	3,799	549	599	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	2,896	2,970	-2.5%	0	0	2,636	2,692	260	279	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	416	504	-18.0%	0	0	416	504	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	908	924	-1.8%	0	0	618	603	289	321	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	6	-89.0%	0	0	0	0	0	0	1	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	6	-89.0%	0	0	0	0	0	0	1	6
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	513	537	-4.4%	0	0	513	537	0	0	0	0
California	307	316	-2.8%	0	0	307	316	0	0	0	0
Oregon	81	93	-13.0%	0	0	81	93	0	0	0	0
Washington	126	129	-2.6%	0	0	126	129	0	0	0	0
Pacific Noncontiguous	350	338	3.7%	0	0	0	0	350	338	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	350	338	3.7%	0	0	0	0	350	338	0	0
U.S. Total	12,073	12,712	-5.0%	230	201	9,878	10,414	1,965	2,090	1	6

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	2,474	2,721	-9.1%	0	418	2,257	2,093	1	1	216	209
Connecticut	NM	136	NM	0	0	NM	136	0	0	0	0
Maine	1,149	1,170	-1.8%	0	0	933	961	0	0	216	209
Massachusetts	NM	94	NM	0	0	NM	94	0	0	0	0
New Hampshire	821	714	15.0%	0	0	821	714	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	NM	606	NM	0	418	NM	188	1	1	0	0
Middle Atlantic	650	687	-5.4%	0	0	411	453	0	0	239	234
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	479	510	-6.2%	0	0	411	453	0	0	68	57
Pennsylvania	171	177	-3.2%	0	0	0	0	0	0	171	177
East North Central	1,838	1,965	-6.5%	443	370	951	1,119	0	0	444	476
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,199	1,383	-13.0%	0	0	944	1,111	0	0	255	272
Ohio	95	105	-9.3%	0	0	7	9	0	0	88	96
Wisconsin	544	478	14.0%	443	370	0	0	0	0	101	107
West North Central	279	444	-37.0%	NM	0	80	65	33	71	153	309
Iowa	4	0	--	0	0	0	0	4	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	249	419	-41.0%	NM	0	80	65	18	67	136	287
Missouri	10	4	175.0%	0	0	0	0	10	4	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	22	NM	0	0	0	0	0	0	NM	22
South Atlantic	8,643	9,334	-7.4%	1,653	1,263	2,757	3,014	9	7	4,224	5,049
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	1,082	1,327	-18.0%	484	725	0	0	0	0	599	602
Georgia	3,517	4,330	-19.0%	0	0	1,677	2,090	0	0	1,840	2,240
Maryland	9	7	18.0%	0	0	0	0	9	7	0	0
North Carolina	790	866	-8.8%	0	0	286	330	0	0	504	535
South Carolina	1,132	1,206	-6.1%	0	0	527	479	0	0	605	727
Virginia	2,113	1,597	32.0%	1,169	539	NM	115	0	0	676	944
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,011	2,768	-27.0%	0	0	0	0	0	0	2,011	2,768
Alabama	1,230	1,940	-37.0%	0	0	0	0	0	0	1,230	1,940
Kentucky	98	127	-23.0%	0	0	0	0	0	0	98	127
Mississippi	430	412	4.4%	0	0	0	0	0	0	430	412
Tennessee	253	290	-13.0%	0	0	0	0	0	0	253	290
West South Central	2,313	2,056	12.0%	638	NM	0	0	0	0	1,675	1,885
Arkansas	323	366	-12.0%	0	0	0	0	0	0	323	366
Louisiana	910	1,016	-10.0%	0	0	0	0	0	0	910	1,016
Oklahoma	154	166	-7.3%	0	0	0	0	0	0	154	166
Texas	926	508	82.0%	638	NM	0	0	0	0	288	337
Mountain	466	499	-6.6%	0	0	311	344	0	0	155	155
Arizona	NM	206	NM	0	0	NM	206	0	0	0	0
Colorado	112	109	2.2%	0	0	112	109	0	0	0	0
Idaho	139	165	-15.0%	0	0	4	29	0	0	135	136
Montana	20	19	3.6%	0	0	0	0	0	0	20	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	4,527	4,970	-8.9%	318	473	2,625	2,821	0	0	1,584	1,675
California	3,152	3,231	-2.4%	0	0	2,378	2,457	0	0	774	774
Oregon	550	694	-21.0%	0	0	NM	364	0	0	302	329
Washington	825	1,045	-21.0%	318	473	0	0	0	0	508	572
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	23,201	25,444	-8.8%	3,066	2,696	9,392	9,910	42	79	10,701	12,760

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Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through October 2022 and October 2021 (Billion Btus)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	31,422	32,810	-4.2%	2,532	3,543	26,391	26,457	6	7	2,493	2,803
Connecticut	2,794	2,719	2.7%	0	0	2,794	2,719	0	0	0	0
Maine	13,563	14,236	-4.7%	0	0	11,069	11,433	0	0	2,493	2,803
Massachusetts	1,156	1,147	0.8%	0	0	1,156	1,147	0	0	0	0
New Hampshire	9,548	9,151	4.3%	0	0	9,548	9,151	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	4,363	5,556	-21.0%	2,532	3,543	1,824	2,007	6	7	0	0
Middle Atlantic	6,564	7,164	-8.4%	0	0	4,030	4,674	0	0	2,534	2,491
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	4,762	5,382	-12.0%	0	0	4,027	4,672	0	0	736	711
Pennsylvania	1,802	1,782	1.1%	0	0	3	NM	0	0	1,799	1,780
East North Central	20,937	19,275	8.6%	5,164	3,898	11,005	10,558	0	0	4,768	4,818
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	13,755	13,281	3.6%	0	0	10,928	10,468	0	0	2,828	2,812
Ohio	886	953	-7.0%	0	0	77	90	0	0	809	863
Wisconsin	6,296	5,041	25.0%	5,164	3,898	0	0	0	0	1,132	1,143
West North Central	4,444	4,802	-7.5%	194	369	944	938	897	716	2,409	2,779
Iowa	26	0	--	0	0	0	0	26	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	4,021	4,396	-8.5%	194	369	944	938	666	515	2,217	2,573
Missouri	206	201	2.5%	0	0	0	0	206	201	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	192	205	-6.4%	0	0	0	0	0	0	192	205
South Atlantic	101,629	104,692	-2.9%	21,150	21,137	30,758	32,078	85	90	49,637	51,387
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	13,303	13,926	-4.5%	6,563	6,825	0	0	0	0	6,739	7,101
Georgia	39,654	40,413	-1.9%	0	0	19,115	19,436	0	0	20,539	20,978
Maryland	85	90	-5.7%	0	0	0	0	85	90	0	0
North Carolina	7,640	8,737	-13.0%	0	0	2,552	3,585	0	0	5,087	5,152
South Carolina	13,535	13,821	-2.1%	0	0	5,995	6,264	0	0	7,540	7,557
Virginia	27,413	27,704	-1.0%	14,587	14,312	3,095	2,792	0	0	9,731	10,600
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	25,960	27,957	-7.1%	0	0	0	0	0	0	25,960	27,957
Alabama	17,131	18,919	-9.4%	0	0	0	0	0	0	17,131	18,919
Kentucky	1,165	1,138	2.3%	0	0	0	0	0	0	1,165	1,138
Mississippi	5,046	5,326	-5.3%	0	0	0	0	0	0	5,046	5,326
Tennessee	2,617	2,574	1.7%	0	0	0	0	0	0	2,617	2,574
West South Central	23,817	20,882	14.0%	5,727	2,602	0	0	0	0	18,090	18,280
Arkansas	3,404	3,339	1.9%	0	0	0	0	0	0	3,404	3,339
Louisiana	9,901	10,167	-2.6%	0	0	0	0	0	0	9,901	10,167
Oklahoma	1,450	1,310	11.0%	0	0	0	0	0	0	1,450	1,310
Texas	9,063	6,067	49.0%	5,727	2,602	0	0	0	0	3,336	3,465
Mountain	4,966	5,151	-3.6%	0	0	3,427	3,642	0	0	1,539	1,509
Arizona	2,210	2,347	-5.9%	0	0	2,210	2,347	0	0	0	0
Colorado	1,052	1,047	0.5%	0	0	1,052	1,047	0	0	0	0
Idaho	1,522	1,553	-2.0%	0	0	166	248	0	0	1,356	1,305
Montana	183	204	-10.0%	0	0	0	0	0	0	183	204
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	50,169	51,888	-3.3%	3,634	3,638	29,330	30,071	0	0	17,205	18,179
California	34,670	35,576	-2.5%	0	0	26,497	27,127	0	0	8,172	8,449
Oregon	6,441	6,562	-1.8%	0	0	2,832	2,944	0	0	3,609	3,617
Washington	9,058	9,750	-7.1%	3,634	3,638	0	0	0	0	5,424	6,112
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	269,909	274,621	-1.7%	38,401	35,187	105,884	108,419	988	813	124,636	130,202

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells. Notes: See Glossary for definitions. Values 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 - October 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
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	84,533	24,084	336	70,471	14,638	324	14,062	9,446	12
February	81,106	24,242	299	68,888	14,768	287	12,218	9,474	12
March	86,328	23,780	350	73,479	14,769	340	12,849	9,011	10
April	91,070	23,838	424	77,242	14,940	416	13,828	8,898	8
May	93,110	24,185	432	79,261	14,742	426	13,850	9,443	6
June	87,386	24,241	414	73,633	15,013	408	13,753	9,228	6
July	79,792	26,045	468	67,057	15,142	459	12,735	10,903	9
August	76,271	23,163	488	64,968	14,647	479	11,302	8,517	9
Sept	80,152	22,843	405	68,228	14,484	397	11,924	8,360	8
October	88,089	23,041	351	74,019	14,524	344	14,070	8,516	7

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, October 2022 and 2021**

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	October 2022	October 2021	Percentage Change	October 2022	October 2021	Percentage Change	October 2022	October 2021	Percentage Change
New England	W	W	W	1,819	3,131	-41.9%	0	0	--
Connecticut	0	0	--	685	1,144	-40.1%	0	0	--
Maine	0	0	--	270	269	0.2%	0	0	--
Massachusetts	0	0	--	525	1,167	-55.0%	0	0	--
New Hampshire	W	W	W	187	359	-48.0%	0	0	--
Rhode Island	0	0	--	128	165	-22.0%	0	0	--
Vermont	0	0	--	24	27	-12.1%	0	0	--
Middle Atlantic	2,310	2,121	8.9%	4,456	5,237	-14.9%	0	0	--
New Jersey	0	W	W	572	730	-21.6%	0	0	--
New York	0	0	--	2,599	3,080	-15.6%	0	0	--
Pennsylvania	2,310	W	W	1,285	1,426	-9.9%	0	0	--
East North Central	17,203	15,453	11.3%	1,867	1,584	17.9%	W	W	W
Illinois	3,027	3,500	-13.5%	76	84	-9.2%	0	0	--
Indiana	6,625	4,503	47.1%	532	98	443.0%	0	0	--
Michigan	3,230	2,350	37.5%	185	224	-17.4%	W	W	W
Ohio	1,863	2,990	-37.7%	368	435	-15.3%	0	0	--
Wisconsin	2,457	2,109	16.5%	706	744	-5.0%	W	W	W
West North Central	18,297	18,742	-2.4%	884	1,015	-12.9%	0	0	--
Iowa	3,747	3,578	4.7%	76	120	-37.2%	0	0	--
Kansas	3,100	3,282	-5.5%	175	190	-8.0%	0	0	--
Minnesota	2,911	1,758	65.6%	100	115	-13.6%	0	0	--
Missouri	4,522	5,643	-19.9%	385	394	-2.2%	0	0	--
Nebraska	2,429	2,430	0.0%	84	112	-25.3%	0	0	--
North Dakota	W	W	W	29	32	-8.1%	0	0	--
South Dakota	W	W	W	36	52	-30.2%	0	0	--
South Atlantic	14,503	11,298	28.4%	8,872	8,891	-0.2%	W	W	W
Delaware	W	W	W	297	522	-43.1%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	1,456	1,077	35.2%	3,503	3,374	3.8%	W	W	W
Georgia	W	2,173	W	1,072	1,006	6.6%	0	0	--
Maryland	533	508	5.0%	617	684	-9.7%	0	0	--
North Carolina	3,699	2,837	30.4%	1,027	1,037	-0.9%	0	0	--
South Carolina	1,388	1,091	27.3%	620	612	1.4%	0	0	--
Virginia	W	W	W	1,582	1,511	4.7%	0	0	--
West Virginia	4,124	W	W	153	146	5.0%	W	W	W
East South Central	8,284	6,965	18.9%	1,090	991	10.0%	0	0	--
Alabama	W	W	W	233	203	14.8%	0	0	--
Kentucky	4,492	3,104	44.7%	254	226	12.5%	0	0	--
Mississippi	W	W	W	5	6	-24.3%	0	0	--
Tennessee	1,873	1,828	2.4%	597	556	7.5%	0	0	--
West South Central	14,576	11,443	27.4%	2,250	1,584	42.1%	W	W	W
Arkansas	3,285	1,741	88.7%	149	159	-6.0%	0	0	--
Louisiana	1,820	2,062	-11.7%	196	197	-0.7%	W	W	W
Oklahoma	2,008	1,639	22.5%	28	93	-70.0%	0	0	--
Texas	7,464	6,001	24.4%	1,877	1,135	65.4%	0	0	--
Mountain	W	W	W	256	348	-26.3%	W	W	W
Arizona	2,244	W	W	72	107	-32.3%	0	0	--
Colorado	2,098	3,118	-32.7%	102	129	-20.7%	0	0	--
Idaho	0	0	--	0	0	68.9%	0	0	--
Montana	W	W	W	15	16	-6.1%	W	W	W
Nevada	W	W	W	2	2	-19.8%	0	0	--
New Mexico	0	W	W	1	12	-92.7%	0	0	--
Utah	2,791	2,731	2.2%	30	40	-23.2%	0	0	--
Wyoming	3,817	3,822	-0.1%	33	42	-19.6%	0	0	--
Pacific Contiguous	W	W	W	310	340	-8.6%	0	0	--
California	0	0	--	168	177	-5.0%	0	0	--
Oregon	0	0	--	54	66	-18.5%	0	0	--
Washington	W	W	W	88	96	-8.1%	0	0	--
Pacific Noncontiguous	0	178	-100.0%	1,235	1,260	-2.0%	0	0	--
Alaska	0	W	W	11	205	-94.9%	0	0	--
Hawaii	0	W	W	1,225	1,055	16.0%	0	0	--
U.S. Total	88,089	81,879	7.6%	23,041	24,380	-5.5%	351	339	3.5%

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, October 2022 and 2021**

Census Division	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021
Coal (Thousand Tons)							
New England	W	W	W	0	0	W	W
Middle Atlantic	2,310	2,121	8.9%	W	0	W	2,121
East North Central	17,203	15,453	11.3%	12,587	W	4,616	W
West North Central	18,297	18,742	-2.4%	18,297	18,742	0	0
South Atlantic	14,503	11,298	28.4%	13,125	10,184	1,378	1,114
East South Central	8,284	6,965	18.9%	8,284	6,965	0	0
West South Central	14,576	11,443	27.4%	W	8,045	W	3,397
Mountain	W	W	W	W	W	W	W
Pacific Contiguous	W	W	W	0	0	W	W
Pacific Noncontiguous	0	178	-100.0%	0	W	0	W
U.S. Total	88,089	81,879	7.6%	74,019	68,087	14,070	13,792
Petroleum Liquids (Thousand Barrels)							
New England	1,819	3,131	-41.9%	198	243	1,620	2,888
Middle Atlantic	4,456	5,237	-14.9%	1,844	2,035	2,613	3,202
East North Central	1,867	1,584	17.9%	1,141	1,245	726	339
West North Central	884	1,015	-12.9%	858	986	27	30
South Atlantic	8,872	8,891	-0.2%	6,999	6,800	1,873	2,091
East South Central	1,090	991	10.0%	990	901	99	90
West South Central	2,250	1,584	42.1%	823	873	1,427	710
Mountain	256	348	-26.3%	229	320	27	27
Pacific Contiguous	310	340	-8.6%	228	258	82	82
Pacific Noncontiguous	1,235	1,260	-2.0%	1,214	1,230	21	30
U.S. Total	23,041	24,380	-5.5%	14,524	14,890	8,516	9,489
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	351	339	3.5%	344	326	7	13

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 - October 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
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	51,153	2,686	84,533
February	29,275	49,114	2,717	81,106
March	31,672	51,504	3,152	86,328
April	33,842	53,959	3,269	91,070
May	33,169	56,740	3,191	93,110
June	30,388	53,858	3,129	87,386
July	28,742	48,005	3,040	79,792
August	28,706	44,730	2,826	76,271
Sept	30,740	46,626	2,776	80,152
October	34,126	51,048	2,905	88,089

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 - October 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
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	12,989	2,172	17.61	105.58	0.46	40.4
February	674,480	35,693	2.18	41.16	1.19	87.9	9,543	1,579	18.33	110.95	0.48	78.2
March	735,281	38,531	2.16	41.20	1.30	109.7	6,806	1,132	22.35	134.45	0.50	59.8
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	5,490	912	28.05	168.90	0.49	52.8
June	712,535	37,692	2.32	43.91	1.31	88.7	8,073	1,331	28.68	173.91	0.49	72.9
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	7,515	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	768,977	40,673	2.47	46.78	1.28	125.8	8,273	1,353	23.24	142.09	0.47	67.7
Year to Date												
2020	6,865,580	362,799	1.92	36.34	1.28	99.1	62,870	10,486	9.72	58.31	0.49	64.6
2021	7,267,188	382,443	1.96	37.24	1.31	86.4	79,347	13,237	14.09	84.48	0.50	66.5
2022	7,377,286	389,511	2.33	44.22	1.29	96.2	81,217	13,426	23.91	144.73	0.49	59.9
Rolling 12 Months Ending in October												
2021	8,730,788	459,280	1.95	37.11	1.31	88.0	93,661	15,616	13.45	80.68	0.50	66.7
2022	8,860,508	468,345	2.29	43.28	1.28	98.8	99,295	16,484	22.64	136.45	0.48	62.9

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

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

- Values for 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 - October 2022 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Percentage of Consumption	Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)		(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
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	793,319	769,229	5.11	5.28	84.5	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	1,101,033	1,068,702	8.01	8.25	84.6	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	85.2	5.74
October	4,142	147	3.37	94.92	5.75	48.3	939,026	909,300	5.84	6.03	85.1	4.34
Year to Date												
2020	58,401	2,063	1.60	45.29	5.44	64.7	10,587,623	10,247,641	2.28	2.36	90.7	2.16
2021	54,152	1,915	2.96	83.76	5.23	61.1	10,066,860	9,739,846	5.11	5.28	90.9	3.76
2022	52,905	1,871	4.42	125.13	5.52	63.5	9,985,845	9,678,095	7.17	7.40	84.5	5.09
Rolling 12 Months Ending in October												
2021	63,593	2,249	2.86	80.97	5.22	59.1	11,860,139	11,473,757	4.80	4.96	90.8	3.57
2022	63,644	2,251	4.38	123.76	5.48	61.9	11,874,101	11,505,158	6.95	7.17	85.5	4.94

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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 - October 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
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	91.2	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	108.4	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	76.7	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	110.4	5,587	919	24.88	151.18	0.48	63.6
October	575,544	30,251	2.54	48.36	1.17	128.8	5,983	978	23.67	144.78	0.48	66.7
Year to Date												
2020	5,165,825	270,590	1.96	37.48	1.14	100.1	46,644	7,731	9.83	59.30	0.47	66.5
2021	5,369,969	281,049	2.02	38.54	1.15	86.2	58,083	9,609	13.98	84.48	0.47	67.2
2022	5,489,525	288,053	2.38	45.32	1.15	97.5	57,190	9,419	24.41	148.20	0.48	64.8
Rolling 12 Months Ending in October												
2021	6,460,955	337,947	2.01	38.37	1.16	88.3	67,969	11,249	13.38	80.87	0.47	67.5
2022	6,568,401	345,209	2.33	44.33	1.14	100.3	68,218	11,277	23.28	140.83	0.48	65.7

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

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

- Values for 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 - October 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
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	88.8	4.04
March	5,791	205	4.84	136.40	5.31	142.5	380,437	369,442	5.31	5.46	90.0	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	89.2	4.74
June	4,887	173	4.50	126.93	5.51	76.9	557,394	541,596	8.29	8.54	87.2	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	87.4	5.50
October	4,060	144	3.35	94.31	5.74	74.8	453,102	439,311	6.26	6.45	88.7	4.28
Year to Date												
2020	56,244	1,983	1.59	45.23	5.42	105.0	5,325,638	5,158,479	2.50	2.59	96.2	2.27
2021	54,152	1,915	2.96	83.76	5.23	100.6	4,990,970	4,831,889	5.10	5.27	96.5	3.55
2022	52,823	1,868	4.42	125.13	5.52	100.6	4,886,268	4,741,439	7.49	7.72	87.9	4.88
Rolling 12 Months Ending in October												
2021	63,593	2,249	2.86	80.97	5.22	98.2	5,872,372	5,684,653	4.84	5.00	96.5	3.40
2022	63,562	2,248	4.38	123.76	5.48	97.9	5,796,770	5,623,406	7.23	7.45	89.1	4.72

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2012 - October 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
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	6,791	1,139	18.23	109.23	0.45	44.0
February	166,487	9,030	2.08	38.46	1.57	81.2	3,379	570	17.99	106.84	0.41	115.9
March	188,026	9,978	2.05	38.73	1.72	100.2	1,319	224	23.35	137.48	0.45	63.1
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	1,034	176	29.60	174.27	0.48	73.8
June	167,192	9,034	2.21	40.96	1.83	94.4	1,123	191	31.28	184.12	0.48	58.8
July	184,805	10,077	2.46	45.22	1.72	89.2	1,405	230	31.28	191.41	0.47	52.6
August	185,225	10,065	2.43	44.70	1.63	85.5	2,028	335	27.23	164.71	0.48	73.5
Sept	172,152	9,348	2.17	40.09	1.73	104.8	1,780	289	23.36	143.93	0.44	88.5
October	182,236	9,879	2.19	40.51	1.67	124.2	2,067	338	22.55	137.75	0.37	95.9
Year to Date												
2020	1,588,549	86,803	1.74	31.87	1.72	99.2	14,775	2,518	9.31	54.66	0.51	87.9
2021	1,780,933	95,828	1.76	32.75	1.80	88.8	19,273	3,304	14.60	85.18	0.49	92.2
2022	1,771,919	95,834	2.17	40.22	1.72	95.3	22,260	3,720	23.04	138.14	0.44	64.0
Rolling 12 Months Ending in October												
2021	2,130,098	114,652	1.76	32.65	1.78	88.7	23,452	4,003	13.74	80.55	0.49	92.1
2022	2,150,795	116,285	2.13	39.51	1.73	97.6	28,920	4,856	21.55	128.52	0.44	73.4

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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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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 - October 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
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	88.6	4.60
March	0	0	--	--	--	0.0	342,826	331,587	4.96	5.13	89.3	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	89.4	5.74
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	89.5	5.98
October	0	0	--	--	--	0.0	421,811	407,766	5.29	5.48	89.7	4.29
Year to Date												
2020	0	0	--	--	--	0.0	4,588,965	4,435,112	1.99	2.07	96.1	1.94
2021	0	0	--	--	--	0.0	4,415,895	4,266,402	5.23	5.42	95.3	4.11
2022	0	0	--	--	--	0.0	4,420,900	4,276,010	6.83	7.07	88.5	5.35
Rolling 12 Months Ending in October												
2021	0	0	--	--	--	0.0	5,186,475	5,010,228	4.82	5.00	95.4	3.84
2022	0	0	--	--	--	0.0	5,248,726	5,075,272	6.66	6.90	89.6	5.21

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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 - October 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
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	9.7	0	0	--	--	--	0.0
October	54	2	4.28	97.11	3.24	5.3	0	0	--	--	--	0.0
Year to Date												
2020	84	4	2.96	67.52	2.95	1.0	0	0	--	--	--	0.0
2021	202	9	3.01	69.14	2.91	2.0	0	0	--	--	--	0.0
2022	253	11	4.16	94.75	3.08	2.7	0	0	--	--	--	0.0
Rolling 12 Months Ending in October												
2021	250	11	3.00	68.91	2.90	2.1	0	0	--	--	--	0.0
2022	313	14	3.95	90.16	3.07	2.7	0	0	--	--	--	0.0

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Notes:

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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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2012 - October 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
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
Year to Date												
2020	0	0	--	--	--	0.0	7,129	6,840	3.07	3.20	6.3	3.07
2021	0	0	--	--	--	0.0	7,223	6,944	3.34	3.47	7.2	3.33
2022	0	0	--	--	--	0.0	7,130	6,866	3.96	4.11	7.3	3.97
Rolling 12 Months Ending in October												
2021	0	0	--	--	--	0.0	8,625	8,292	3.30	3.44	7.0	3.29
2022	0	0	--	--	--	0.0	8,776	8,450	3.93	4.08	7.4	3.93

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

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

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- 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 - October 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
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	71.7	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	72.0	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
Year to Date												
2020	111,122	5,402	2.47	50.85	1.25	69.0	1,451	236	10.50	64.46	1.19	17.7
2021	116,083	5,557	2.34	48.90	1.28	69.1	1,990	324	12.62	77.57	1.44	21.2
2022	115,590	5,613	2.70	55.61	1.26	66.8	1,766	287	18.01	110.80	1.18	18.5
Rolling 12 Months Ending in October												
2021	139,484	6,670	2.38	49.74	1.29	69.0	2,240	364	12.40	76.17	1.41	20.0
2022	140,998	6,837	2.62	54.11	1.32	68.0	2,156	350	17.34	106.84	1.24	19.0

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

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

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- 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 - October 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
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	57.3	4.39
February	0	0	--	--	--	0.0	64,680	62,805	5.79	5.97	56.6	5.38
March	0	0	--	--	--	0.0	69,344	67,513	4.73	4.86	56.9	4.41
April	0	0	--	--	--	0.0	64,179	62,528	6.03	6.19	58.1	5.59
May	0	0	--	--	--	0.0	64,417	62,754	7.74	7.95	57.8	6.93
June	0	0	--	--	--	0.0	66,108	64,500	8.40	8.61	59.8	7.53
July	0	0	--	--	--	0.0	69,785	68,051	7.01	7.18	59.7	6.38
August	0	0	--	--	--	0.0	71,276	69,531	8.79	9.01	59.7	8.01
Sept	0	0	--	--	--	0.0	64,241	62,559	8.49	8.72	57.6	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
Year to Date												
2020	2,157	80	1.73	46.84	5.89	12.3	665,891	647,210	2.13	2.19	53.0	2.19
2021	0	0	--	--	--	0.0	652,773	634,612	4.52	4.65	55.7	4.22
2022	82	3	4.46	124.88	5.99	0.5	671,547	653,780	6.74	6.92	57.9	6.17
Rolling 12 Months Ending in October												
2021	0	0	--	--	--	0.0	792,667	770,584	4.25	4.38	55.9	3.99
2022	82	3	4.46	124.88	5.99	0.4	819,829	798,030	6.47	6.64	58.3	5.93

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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 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, October 2022 and 2021
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	5	5	-4.9%	0	0	5	5	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	5	5	-4.9%	0	0	5	5	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	873	1,091	-20.0%	0	0	862	1,080	0	0	11	11
New Jersey	0	69	-100.0%	0	0	0	69	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	873	1,022	-15.0%	0	0	862	1,011	0	0	11	11
East North Central	8,451	8,451	0.0%	4,875	4,794	3,439	3,516	0	0	137	141
Illinois	2,351	2,318	1.4%	355	202	1,860	1,974	0	0	137	141
Indiana	1,921	1,796	7.0%	1,744	1,603	177	193	0	0	0	0
Michigan	1,449	1,635	-11.0%	1,437	1,622	12	13	0	0	0	0
Ohio	1,524	1,505	1.3%	134	170	1,390	1,335	0	0	0	0
Wisconsin	1,205	1,198	0.6%	1,205	1,198	0	0	0	0	0	0
West North Central	8,672	7,672	13.0%	8,460	7,448	0	0	2	3	210	221
Iowa	1,183	814	45.0%	1,019	634	0	0	0	0	165	181
Kansas	1,373	983	40.0%	1,373	983	0	0	0	0	0	0
Minnesota	717	790	-9.3%	717	790	0	0	0	0	0	0
Missouri	2,466	2,484	-0.7%	2,463	2,481	0	0	2	3	0	0
Nebraska	1,079	944	14.0%	1,034	904	0	0	0	0	45	41
North Dakota	1,765	1,582	12.0%	1,765	1,582	0	0	0	0	0	0
South Dakota	90	75	21.0%	90	75	0	0	0	0	0	0
South Atlantic	4,844	4,349	11.0%	4,090	3,588	681	701	0	0	73	60
Delaware	0	12	-100.0%	0	0	0	12	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	607	585	3.8%	599	575	0	0	0	0	8	10
Georgia	735	672	9.5%	716	659	0	0	0	0	19	13
Maryland	139	170	-18.0%	0	0	139	170	0	0	0	0
North Carolina	523	621	-16.0%	501	601	0	0	0	0	21	20
South Carolina	711	424	68.0%	690	421	21	2	0	0	0	0
Virginia	146	28	422.0%	122	11	0	0	0	0	24	17
West Virginia	1,982	1,837	7.9%	1,461	1,321	521	517	0	0	0	0
East South Central	4,534	4,024	13.0%	4,272	3,802	197	165	0	0	64	57
Alabama	1,264	1,153	9.6%	1,264	1,153	0	0	0	0	0	0
Kentucky	2,474	2,222	11.0%	2,474	2,222	0	0	0	0	0	0
Mississippi	289	303	-4.5%	92	138	197	165	0	0	0	0
Tennessee	507	347	46.0%	443	290	0	0	0	0	64	57
West South Central	7,536	7,332	2.8%	3,834	3,667	3,700	3,662	0	0	2	3
Arkansas	1,314	962	36.0%	1,034	761	278	198	0	0	2	3
Louisiana	330	330	0.1%	185	266	145	63	0	0	0	0
Oklahoma	645	816	-21.0%	645	816	0	0	0	0	0	0
Texas	5,247	5,224	0.4%	1,969	1,824	3,277	3,400	0	0	0	0
Mountain	5,482	5,437	0.8%	4,700	4,724	781	713	0	0	0	0
Arizona	870	746	17.0%	870	746	0	0	0	0	0	0
Colorado	905	904	0.1%	905	904	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	636	613	3.8%	0	0	636	613	0	0	0	0
Nevada	156	161	-3.0%	74	95	82	65	0	0	0	0
New Mexico	559	543	2.8%	559	543	0	0	0	0	0	0
Utah	547	859	-36.0%	526	824	21	35	0	0	0	0
Wyoming	1,809	1,612	12.0%	1,767	1,612	43	0	0	0	0	0
Pacific Contiguous	257	167	53.0%	0	0	213	114	0	0	44	53
California	44	53	-18.0%	0	0	0	0	0	0	44	53
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	213	114	87.0%	0	0	213	114	0	0	0	0
Pacific Noncontiguous	20	69	-71.0%	20	9	0	60	0	0	0	0
Alaska	20	9	120.0%	20	9	0	0	0	0	0	0
Hawaii	0	60	-100.0%	0	0	0	60	0	0	0	0
U.S. Total	40,673	38,598	5.4%	30,251	28,034	9,879	10,015	2	3	541	547

Displayed values of zero may represent small values that round to zero.
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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.
 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) October 2022 and 2021
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	139	57	144.0%	0	0	139	57	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	52	57	-9.4%	0	0	52	57	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	88	0	--	0	0	88	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	9,411	12,399	-24.0%	0	0	9,336	12,324	0	0	75	75
New Jersey	184	453	-59.0%	0	0	184	453	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	9,227	11,946	-23.0%	0	0	9,152	11,871	0	0	75	75
East North Central	82,904	79,790	3.9%	47,811	44,990	33,664	33,230	0	0	1,429	1,570
Illinois	23,184	21,131	9.7%	3,002	1,388	18,762	18,174	0	0	1,420	1,569
Indiana	20,008	15,966	25.0%	17,844	14,201	2,164	1,765	0	0	0	0
Michigan	15,092	16,003	-5.7%	14,966	15,847	117	156	0	0	9	1
Ohio	14,242	14,642	-2.7%	1,620	1,506	12,622	13,135	0	0	0	0
Wisconsin	10,378	12,048	-14.0%	10,378	12,048	0	0	0	0	0	0
West North Central	84,179	81,447	3.4%	81,627	79,147	0	0	11	9	2,541	2,291
Iowa	10,735	9,669	11.0%	8,866	7,965	0	0	0	0	1,869	1,703
Kansas	11,278	10,712	5.3%	11,278	10,712	0	0	0	0	0	0
Minnesota	8,776	6,550	34.0%	8,776	6,550	0	0	0	0	0	0
Missouri	24,511	26,179	-6.4%	24,500	26,171	0	0	11	9	0	0
Nebraska	9,643	9,576	0.7%	8,971	8,988	0	0	0	0	672	588
North Dakota	17,981	17,694	1.6%	17,981	17,694	0	0	0	0	0	0
South Dakota	1,254	1,067	18.0%	1,254	1,067	0	0	0	0	0	0
South Atlantic	44,501	45,900	-3.0%	37,862	39,009	6,110	6,336	0	0	529	555
Delaware	84	134	-37.0%	0	0	84	134	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,509	6,352	-13.0%	5,489	6,322	0	0	0	0	20	30
Georgia	7,153	6,857	4.3%	7,034	6,733	0	0	0	0	119	124
Maryland	1,583	1,540	2.8%	0	0	1,583	1,540	0	0	0	0
North Carolina	4,863	6,890	-29.0%	4,667	6,686	0	6	0	0	196	198
South Carolina	5,452	5,237	4.1%	5,248	5,066	181	137	0	0	23	34
Virginia	1,585	1,356	17.0%	1,414	1,187	0	0	0	0	171	169
West Virginia	18,272	17,534	4.2%	14,011	13,015	4,261	4,519	0	0	0	0
East South Central	43,341	40,174	7.9%	40,260	37,142	2,589	2,538	0	0	493	493
Alabama	12,066	10,815	12.0%	12,066	10,815	0	0	0	0	0	0
Kentucky	22,987	21,087	9.0%	22,987	21,087	0	0	0	0	0	0
Mississippi	4,043	3,927	2.9%	1,454	1,389	2,589	2,538	0	0	0	0
Tennessee	4,245	4,344	-2.3%	3,752	3,851	0	0	0	0	493	493
West South Central	68,981	66,744	3.4%	34,099	33,753	34,784	32,949	0	0	99	42
Arkansas	10,725	9,409	14.0%	8,564	7,685	2,111	1,682	0	0	51	42
Louisiana	4,545	3,165	44.0%	2,706	2,780	1,839	385	0	0	0	0
Oklahoma	5,148	5,380	-4.3%	5,100	5,380	0	0	0	0	48	0
Texas	48,562	48,789	-0.5%	17,728	17,907	30,834	30,882	0	0	0	0
Mountain	53,009	53,208	-0.4%	46,107	46,734	6,902	6,474	0	0	0	0
Arizona	6,797	5,846	16.0%	6,797	5,846	0	0	0	0	0	0
Colorado	9,257	10,442	-11.0%	9,257	10,442	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5,518	5,340	3.3%	0	64	5,518	5,276	0	0	0	0
Nevada	1,457	973	50.0%	854	469	603	503	0	0	0	0
New Mexico	6,478	5,890	10.0%	6,478	5,890	0	0	0	0	0	0
Utah	8,680	8,614	0.8%	8,337	8,289	344	325	0	0	0	0
Wyoming	14,822	16,103	-8.0%	14,385	15,733	437	370	0	0	0	0
Pacific Contiguous	2,500	1,972	27.0%	0	0	2,053	1,441	0	0	447	531
California	447	531	-16.0%	0	0	0	0	0	0	447	531
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,053	1,441	42.0%	0	0	2,053	1,441	0	0	0	0
Pacific Noncontiguous	545	754	-28.0%	289	275	256	479	0	0	0	0
Alaska	289	275	5.1%	289	275	0	0	0	0	0	0
Hawaii	256	479	-47.0%	0	0	256	479	0	0	0	0
U.S. Total	389,511	382,443	1.8%	288,053	281,049	95,834	95,828	11	9	5,613	5,557

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 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

**Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, October 2022 and 2021
(Thousand Barrels)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	86	75	14.0%	0	2	86	73	0	0	0	0
Connecticut	1	6	-87.0%	0	0	1	6	0	0	0	0
Maine	5	6	-12.0%	0	0	5	6	0	0	0	0
Massachusetts	80	15	431.0%	0	2	80	13	0	0	0	0
New Hampshire	0	46	-100.0%	0	0	0	46	0	0	0	0
Rhode Island	0	3	-100.0%	0	0	0	3	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	213	168	27.0%	148	109	60	53	0	0	6	6
New Jersey	0	1	-100.0%	0	0	0	1	0	0	0	0
New York	197	147	34.0%	148	109	49	38	0	0	0	0
Pennsylvania	16	19	-16.0%	0	0	11	13	0	0	6	6
East North Central	31	50	-38.0%	24	26	5	23	0	0	2	2
Illinois	2	7	-73.0%	0	2	2	6	0	0	0	0
Indiana	14	9	56.0%	14	9	0	0	0	0	0	0
Michigan	6	11	-46.0%	5	9	0	0	0	0	1	1
Ohio	6	19	-67.0%	1	1	3	17	0	0	2	0
Wisconsin	3	4	-36.0%	3	4	0	0	0	0	0	0
West North Central	47	88	-46.0%	47	87	0	1	0	0	0	0
Iowa	9	11	-19.0%	9	11	0	0	0	0	0	0
Kansas	4	20	-79.0%	4	20	0	0	0	0	0	0
Minnesota	6	11	-46.0%	6	10	0	1	0	0	0	0
Missouri	16	30	-46.0%	16	30	0	0	0	0	0	0
Nebraska	2	5	-70.0%	2	5	0	0	0	0	0	0
North Dakota	10	4	128.0%	10	4	0	0	0	0	0	0
South Dakota	0	6	-100.0%	0	6	0	0	0	0	0	0
South Atlantic	92	131	-30.0%	59	85	5	23	0	0	28	23
Delaware	0	1	-100.0%	0	0	0	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	24	23	2.2%	21	23	0	0	0	0	2	0
Georgia	28	33	-17.0%	17	19	0	0	0	0	11	15
Maryland	0	13	-100.0%	0	0	0	13	0	0	0	0
North Carolina	4	9	-53.0%	1	6	0	0	0	0	4	3
South Carolina	8	12	-33.0%	3	11	1	0	0	0	4	2
Virginia	20	20	-0.5%	10	8	4	8	0	0	6	4
West Virginia	8	18	-57.0%	8	18	0	0	0	0	0	0
East South Central	12	11	9.1%	12	10	0	0	0	0	1	1
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	7	4	75.0%	7	4	0	0	0	0	0	0
Mississippi	1	2	-73.0%	1	2	0	0	0	0	0	0
Tennessee	5	5	-9.2%	4	4	0	0	0	0	1	1
West South Central	32	117	-73.0%	27	26	5	91	0	0	0	0
Arkansas	12	12	-5.5%	7	12	5	1	0	0	0	0
Louisiana	0	1	-100.0%	0	1	0	0	0	0	0	0
Oklahoma	12	3	308.0%	12	3	0	0	0	0	0	0
Texas	8	101	-92.0%	8	10	0	90	0	0	0	0
Mountain	16	25	-36.0%	12	24	4	1	0	0	0	0
Arizona	1	4	-73.0%	1	4	0	0	0	0	0	0
Colorado	1	3	-68.0%	1	3	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	0	--	0	0	3	0	0	0	0	0
Nevada	2	1	60.0%	2	1	0	0	0	0	0	0
New Mexico	0	5	-100.0%	0	5	0	0	0	0	0	0
Utah	4	3	54.0%	3	2	1	0	0	0	0	0
Wyoming	6	10	-43.0%	6	10	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	824	698	18.0%	650	524	174	174	0	0	0	0
Alaska	2	2	-0.1%	2	2	0	0	0	0	0	0
Hawaii	822	696	18.0%	648	522	174	174	0	0	0	0
U.S. Total	1,353	1,363	-0.8%	978	893	338	438	0	0	36	32

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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) October 2022 and 2021
(Thousand Barrels)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	985	227	333.0%	0	12	985	216	0	0	0	0
Connecticut	11	22	-50.0%	0	0	11	22	0	0	0	0
Maine	268	56	381.0%	0	0	268	56	0	0	0	0
Massachusetts	339	33	934.0%	0	12	339	21	0	0	0	0
New Hampshire	366	108	237.0%	0	0	366	108	0	0	0	0
Rhode Island	0	8	-100.0%	0	0	0	8	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,336	1,183	13.0%	556	851	727	272	0	0	53	59
New Jersey	10	24	-61.0%	0	0	10	24	0	0	0	0
New York	1,117	912	22.0%	556	851	561	60	0	0	0	0
Pennsylvania	210	247	-15.0%	0	0	156	188	0	0	53	59
East North Central	494	675	-27.0%	310	407	157	242	0	0	27	26
Illinois	36	79	-54.0%	1	5	35	74	0	0	0	0
Indiana	163	199	-18.0%	163	197	0	2	0	0	0	0
Michigan	135	153	-12.0%	120	136	0	0	0	0	15	17
Ohio	147	198	-26.0%	13	25	122	163	0	0	12	9
Wisconsin	12	46	-73.0%	12	43	0	2	0	0	0	0
West North Central	496	1,135	-56.0%	496	1,127	0	9	0	0	0	0
Iowa	120	107	12.0%	120	107	0	0	0	0	0	0
Kansas	102	289	-65.0%	102	289	0	0	0	0	0	0
Minnesota	33	150	-78.0%	33	141	0	9	0	0	0	0
Missouri	183	445	-59.0%	183	445	0	0	0	0	0	0
Nebraska	9	74	-88.0%	9	74	0	0	0	0	0	0
North Dakota	48	47	1.7%	48	47	0	0	0	0	0	0
South Dakota	0	23	-100.0%	0	23	0	0	0	0	0	0
South Atlantic	1,697	1,670	1.6%	1,226	1,176	276	272	0	0	196	222
Delaware	16	28	-44.0%	0	0	16	28	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	554	408	36.0%	534	373	1	0	0	0	20	35
Georgia	190	262	-28.0%	123	160	0	7	0	0	67	96
Maryland	99	165	-40.0%	0	0	99	165	0	0	0	0
North Carolina	150	127	19.0%	107	84	0	0	0	0	43	43
South Carolina	163	152	7.2%	113	116	25	4	0	0	25	32
Virginia	344	314	9.5%	167	230	135	68	0	0	41	16
West Virginia	182	214	-15.0%	182	214	1	0	0	0	0	0
East South Central	369	232	59.0%	356	191	2	24	0	0	11	17
Alabama	36	25	45.0%	34	1	2	24	0	0	0	0
Kentucky	98	110	-11.0%	98	110	0	0	0	0	0	0
Mississippi	9	9	6.6%	9	9	0	0	0	0	0	0
Tennessee	226	89	155.0%	215	72	0	0	0	0	11	17
West South Central	193	1,010	-81.0%	145	249	48	761	0	0	0	0
Arkansas	69	103	-33.0%	44	85	25	18	0	0	0	0
Louisiana	6	20	-71.0%	6	20	0	0	0	0	0	0
Oklahoma	54	50	7.9%	54	50	0	0	0	0	0	0
Texas	64	837	-92.0%	41	94	24	743	0	0	0	0
Mountain	213	276	-23.0%	199	254	14	22	0	0	0	0
Arizona	49	68	-28.0%	49	68	0	0	0	0	0	0
Colorado	8	15	-46.0%	8	15	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	9	17	-47.0%	0	1	9	16	0	0	0	0
Nevada	15	16	-0.6%	13	12	3	4	0	0	0	0
New Mexico	20	34	-41.0%	20	34	0	0	0	0	0	0
Utah	38	49	-23.0%	35	47	2	2	0	0	0	0
Wyoming	74	78	-5.7%	74	78	0	0	0	0	0	0
Pacific Contiguous	13	15	-9.3%	0	5	13	10	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	13	15	-9.3%	0	5	13	10	0	0	0	0
Pacific Noncontiguous	7,629	6,814	12.0%	6,131	5,337	1,498	1,477	0	0	0	0
Alaska	22	15	51.0%	22	15	0	0	0	0	0	0
Hawaii	7,608	6,799	12.0%	6,110	5,322	1,498	1,477	0	0	0	0
U.S. Total	13,426	13,237	1.4%	9,419	9,609	3,720	3,304	0	0	287	324

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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, October 2022 and 2021
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 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	73	67	8.8%	73	67	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	70	49	43.0%	70	49	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	18	-85.0%	3	18	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	39	0	--	39	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	39	0	--	39	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	32	103	-69.0%	32	103	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	32	103	-69.0%	32	103	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	147	170	-14.0%	144	170	0	0	0	0	3	0

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

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 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	587	374	57.0%	587	374	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	527	316	67.0%	527	316	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	60	58	3.9%	60	58	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	282	253	11.0%	282	253	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	282	253	11.0%	282	253	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	991	1,288	-23.0%	991	1,288	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	991	1,288	-23.0%	991	1,288	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,871	1,915	-2.3%	1,868	1,915	0	0	0	0	3	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 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, October 2022 and 2021
(Million Cubic Feet)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	21,821	34,052	-36.0%	0	17	21,821	34,035	0	0	0	0
Connecticut	12,024	11,769	2.2%	0	0	12,024	11,769	0	0	0	0
Maine	732	2,058	-64.0%	0	0	732	2,058	0	0	0	0
Massachusetts	4,658	8,319	-44.0%	0	17	4,658	8,302	0	0	0	0
New Hampshire	2,536	4,107	-38.0%	0	0	2,536	4,107	0	0	0	0
Rhode Island	1,872	7,799	-76.0%	0	0	1,872	7,799	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	119,210	120,224	-0.8%	6,225	7,107	110,771	111,878	0	0	2,215	1,239
New Jersey	17,406	22,300	-22.0%	0	0	17,406	22,300	0	0	0	0
New York	30,626	33,007	-7.2%	6,225	7,107	23,879	25,321	0	0	522	580
Pennsylvania	71,178	64,917	9.6%	0	0	69,485	64,257	0	0	1,693	659
East North Central	89,409	100,784	-11.0%	31,611	33,965	56,226	64,643	480	516	1,092	1,659
Illinois	8,509	15,088	-44.0%	1,186	2,508	7,319	11,997	0	0	5	583
Indiana	18,113	16,795	7.8%	7,833	7,872	10,280	8,924	0	0	0	0
Michigan	23,798	19,403	23.0%	7,679	6,930	15,188	11,571	480	516	450	386
Ohio	27,701	36,322	-24.0%	4,514	3,866	22,736	32,065	0	0	451	392
Wisconsin	11,288	13,175	-14.0%	10,399	12,790	703	87	0	0	186	298
West North Central	12,361	20,333	-39.0%	10,135	16,366	1,537	3,477	154	208	534	281
Iowa	4,579	5,501	-17.0%	4,045	5,220	0	0	0	0	534	281
Kansas	1,999	1,175	70.0%	1,999	1,175	0	0	0	0	0	0
Minnesota	1,881	8,104	-77.0%	1,821	5,854	59	2,249	1	1	0	0
Missouri	3,662	3,369	8.7%	2,031	1,934	1,478	1,228	153	207	0	0
Nebraska	134	579	-77.0%	134	579	0	0	0	0	0	0
North Dakota	44	946	-95.0%	44	946	0	0	0	0	0	0
South Dakota	63	659	-90.0%	63	659	0	0	0	0	0	0
South Atlantic	221,031	245,298	-9.9%	185,044	203,675	32,773	38,321	0	0	3,214	3,302
Delaware	2,538	897	183.0%	0	0	2,538	897	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	103,100	118,866	-13.0%	97,882	112,810	4,850	5,686	0	0	368	370
Georgia	27,332	35,794	-24.0%	20,843	27,777	5,748	7,099	0	0	740	918
Maryland	9,833	10,347	-5.0%	3,065	2,892	6,768	7,454	0	0	0	0
North Carolina	36,032	32,001	13.0%	31,570	25,319	4,203	6,402	0	0	259	280
South Carolina	15,419	16,295	-5.4%	14,692	15,806	614	340	0	0	113	149
Virginia	25,115	27,923	-10.0%	16,868	18,529	7,177	8,462	0	0	1,070	932
West Virginia	1,663	3,175	-48.0%	124	542	875	1,981	0	0	664	652
East South Central	72,701	71,805	1.2%	50,779	50,902	19,593	18,778	0	0	2,329	2,125
Alabama	33,057	29,934	10.0%	13,577	11,346	19,480	18,588	0	0	0	0
Kentucky	7,950	8,562	-7.1%	7,871	8,419	78	143	0	0	0	0
Mississippi	24,199	25,815	-6.3%	24,165	25,768	34	47	0	0	0	0
Tennessee	7,495	7,494	0.0%	5,166	5,368	0	0	0	0	2,329	2,125
West South Central	227,129	248,228	-8.5%	71,224	79,301	105,259	113,511	0	0	50,646	55,416
Arkansas	10,388	13,547	-23.0%	9,461	12,069	781	1,211	0	0	146	267
Louisiana	41,622	43,987	-5.4%	21,384	23,791	2,297	2,878	0	0	17,941	17,318
Oklahoma	20,949	19,614	6.8%	13,090	11,265	7,422	7,844	0	0	437	505
Texas	154,171	171,080	-9.9%	27,289	32,176	94,760	101,577	0	0	32,122	37,327
Mountain	72,608	56,548	28.0%	58,283	42,603	14,325	13,945	0	0	0	0
Arizona	32,796	26,737	23.0%	22,250	17,449	10,546	9,288	0	0	0	0
Colorado	9,068	6,743	34.0%	7,481	5,026	1,586	1,717	0	0	0	0
Idaho	549	2,007	-73.0%	549	835	0	1,173	0	0	0	0
Montana	607	322	89.0%	607	320	0	2	0	0	0	0
Nevada	14,778	11,566	28.0%	14,778	11,566	0	0	0	0	0	0
New Mexico	7,159	4,840	48.0%	4,966	3,076	2,192	1,764	0	0	0	0
Utah	6,540	3,952	65.0%	6,540	3,952	0	0	0	0	0	0
Wyoming	1,111	380	192.0%	1,110	380	1	0	0	0	0	0
Pacific Contiguous	73,020	72,993	0.0%	26,000	28,440	45,461	41,982	0	0	1,559	2,571
California	56,120	51,311	9.4%	17,776	16,891	36,786	31,849	0	0	1,559	2,571
Oregon	8,784	12,570	-30.0%	2,807	6,582	5,976	5,989	0	0	0	0
Washington	8,116	9,111	-11.0%	5,417	4,967	2,699	4,144	0	0	0	0
Pacific Noncontiguous	9	1,130	-99.0%	9	1,130	0	0	0	0	0	0
Alaska	9	1,130	-99.0%	9	1,130	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	909,300	971,395	-6.4%	439,311	463,507	407,766	440,569	634	724	61,589	66,595

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	287,169	326,121	-12.0%	581	611	286,588	325,510	0	0	0	0
Connecticut	131,365	130,139	0.9%	0	0	131,365	130,139	0	0	0	0
Maine	15,049	16,902	-11.0%	0	0	15,049	16,902	0	0	0	0
Massachusetts	85,265	96,922	-12.0%	581	611	84,684	96,311	0	0	0	0
New Hampshire	29,609	29,034	2.0%	0	0	29,609	29,034	0	0	0	0
Rhode Island	25,881	53,123	-51.0%	0	0	25,881	53,123	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,272,375	1,214,557	4.8%	82,213	96,713	1,170,450	1,108,867	0	0	19,712	8,977
New Jersey	194,118	182,262	6.5%	0	0	194,118	182,262	0	0	0	0
New York	350,178	341,562	2.5%	82,213	96,713	262,206	239,038	0	0	5,759	5,811
Pennsylvania	728,079	690,733	5.4%	0	0	714,126	687,567	0	0	13,953	3,166
East North Central	948,097	927,923	2.2%	334,418	316,108	595,912	590,938	5,028	5,009	12,739	15,868
Illinois	82,493	137,324	-40.0%	13,611	11,880	68,833	122,193	0	0	48	3,250
Indiana	162,737	159,299	2.2%	66,385	68,153	96,352	91,146	0	0	0	0
Michigan	233,070	194,410	20.0%	84,114	68,463	138,974	115,834	5,028	5,009	4,954	5,103
Ohio	337,543	312,457	8.0%	46,946	51,151	285,551	256,796	0	0	5,046	4,510
Wisconsin	132,255	124,433	6.3%	123,361	116,461	6,203	4,968	0	0	2,691	3,004
West North Central	125,249	202,706	-38.0%	106,627	161,845	13,550	35,230	1,837	1,935	3,234	3,696
Iowa	42,244	47,598	-11.0%	39,010	43,902	0	0	0	0	3,234	3,696
Kansas	15,422	14,813	4.1%	15,422	14,813	0	0	0	0	0	0
Minnesota	22,569	66,938	-66.0%	21,009	43,175	1,548	23,748	13	15	0	0
Missouri	39,701	43,495	-8.7%	25,874	30,094	12,003	11,482	1,825	1,920	0	0
Nebraska	3,259	9,530	-66.0%	3,259	9,530	0	0	0	0	0	0
North Dakota	576	13,178	-96.0%	576	13,178	0	0	0	0	0	0
South Dakota	1,479	7,155	-79.0%	1,479	7,155	0	0	0	0	0	0
South Atlantic	2,376,179	2,322,506	2.3%	2,002,520	1,956,105	344,467	334,530	0	0	29,192	31,871
Delaware	21,305	16,460	29.0%	0	0	21,305	16,460	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,135,058	1,105,833	2.6%	1,073,210	1,060,334	58,264	41,802	0	0	3,585	3,698
Georgia	316,364	339,427	-6.8%	247,640	277,105	60,888	53,921	0	0	7,836	8,402
Maryland	82,991	80,691	2.9%	24,806	19,265	58,185	61,427	0	0	0	0
North Carolina	367,390	291,192	26.0%	318,718	236,949	45,946	51,520	0	0	2,726	2,723
South Carolina	160,929	142,197	13.0%	149,094	137,833	10,909	3,251	0	0	925	1,112
Virginia	276,719	324,995	-15.0%	185,387	221,848	81,513	93,233	0	0	9,819	9,914
West Virginia	15,423	21,710	-29.0%	3,665	2,772	7,457	12,916	0	0	4,301	6,023
East South Central	889,926	801,989	11.0%	642,467	597,820	224,004	180,365	0	0	23,455	23,805
Alabama	352,987	301,522	17.0%	135,872	127,204	217,115	174,318	0	0	0	0
Kentucky	106,496	88,599	20.0%	99,773	82,686	6,722	5,912	0	0	0	0
Mississippi	312,847	302,507	3.4%	312,680	302,373	167	134	0	0	0	0
Tennessee	117,597	109,360	7.5%	94,142	85,556	0	0	0	0	23,455	23,805
West South Central	2,531,500	2,516,204	0.6%	822,309	840,614	1,165,413	1,150,347	0	0	543,777	525,243
Arkansas	125,479	117,679	6.6%	112,169	107,008	10,698	7,932	0	0	2,612	2,740
Louisiana	473,223	427,880	11.0%	275,456	241,811	24,476	23,397	0	0	173,291	162,672
Oklahoma	223,050	234,343	-4.8%	143,008	155,884	74,701	73,224	0	0	5,341	5,235
Texas	1,709,749	1,736,302	-1.5%	291,676	335,911	1,055,539	1,045,794	0	0	362,534	354,597
Mountain	665,605	712,551	-6.6%	546,330	576,345	119,275	135,925	0	0	0	282
Arizona	286,737	310,099	-7.5%	200,458	220,484	86,278	89,615	0	0	0	0
Colorado	97,483	94,149	3.5%	84,779	79,021	12,704	15,128	0	0	0	0
Idaho	7,835	26,037	-70.0%	7,835	15,857	0	10,180	0	0	0	0
Montana	2,895	2,683	7.9%	2,895	2,656	0	27	0	0	0	0
Nevada	141,090	152,256	-7.3%	141,090	152,256	0	0	0	0	0	0
New Mexico	63,462	64,533	-1.7%	43,173	43,567	20,288	20,966	0	0	0	0
Utah	58,877	55,888	5.3%	58,877	55,607	0	0	0	0	0	282
Wyoming	7,227	6,906	4.6%	7,223	6,897	4	9	0	0	0	0
Pacific Contiguous	581,871	704,077	-17.0%	203,850	274,515	356,350	404,691	0	0	21,671	24,870
California	460,647	497,778	-7.5%	147,243	153,916	291,733	318,991	0	0	21,671	24,870
Oregon	76,864	121,558	-37.0%	29,251	62,566	47,613	58,992	0	0	0	0
Washington	44,360	84,741	-48.0%	27,356	58,033	17,004	26,708	0	0	0	0
Pacific Noncontiguous	124	11,213	-99.0%	124	11,213	0	0	0	0	0	0
Alaska	124	11,213	-99.0%	124	11,213	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	9,678,095	9,739,846	-0.6%	4,741,439	4,831,889	4,276,010	4,266,402	6,866	6,944	653,780	634,612

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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 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, October 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.34	2.16	55.0%	--	--	3.34	2.16
New Jersey	--	W	W	--	--	--	W
New York	--	--	--	--	--	--	--
Pennsylvania	3.34	W	W	--	--	3.34	W
East North Central	2.21	1.96	13.0%	2.49	2.15	1.83	1.71
Illinois	1.95	W	W	2.16	1.76	1.90	W
Indiana	W	W	W	2.61	2.36	W	W
Michigan	W	W	W	2.42	2.07	W	W
Ohio	W	1.71	W	2.18	1.88	W	1.69
Wisconsin	2.52	2.05	23.0%	2.52	2.05	--	--
West North Central	1.83	1.69	8.3%	1.83	1.69	--	--
Iowa	1.82	1.62	12.0%	1.82	1.62	--	--
Kansas	1.88	1.54	22.0%	1.88	1.54	--	--
Minnesota	2.39	2.42	-1.2%	2.39	2.42	--	--
Missouri	1.90	1.71	11.0%	1.90	1.71	--	--
Nebraska	1.19	1.17	1.7%	1.19	1.17	--	--
North Dakota	1.80	1.70	5.9%	1.80	1.70	--	--
South Dakota	2.06	1.86	11.0%	2.06	1.86	--	--
South Atlantic	3.45	2.56	35.0%	3.48	2.70	3.28	1.87
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	3.58	3.39	5.6%	3.58	3.39	--	--
Georgia	4.78	2.83	69.0%	4.78	2.83	--	--
Maryland	6.50	W	W	--	--	6.50	W
North Carolina	4.01	3.13	28.0%	4.01	3.13	--	--
South Carolina	W	W	W	4.00	3.14	W	W
Virginia	3.84	2.72	41.0%	3.84	2.72	--	--
West Virginia	W	1.89	W	2.49	2.02	W	1.56
East South Central	W	W	W	3.04	2.02	W	W
Alabama	3.04	2.13	43.0%	3.04	2.13	--	--
Kentucky	2.45	1.93	27.0%	2.45	1.93	--	--
Mississippi	W	W	W	4.84	2.82	W	W
Tennessee	5.85	1.98	195.0%	5.85	1.98	--	--
West South Central	2.22	1.89	17.0%	2.40	1.97	2.03	1.81
Arkansas	W	W	W	2.38	2.24	W	W
Louisiana	W	W	W	2.94	2.27	W	W
Oklahoma	2.63	1.83	44.0%	2.63	1.83	--	--
Texas	W	W	W	2.27	1.86	W	W
Mountain	W	W	W	2.28	2.09	W	W
Arizona	2.87	2.35	22.0%	2.87	2.35	--	--
Colorado	1.90	1.61	18.0%	1.90	1.61	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	3.40	2.39	W	W
New Mexico	3.93	2.78	41.0%	3.93	2.78	--	--
Utah	2.15	1.94	11.0%	2.15	1.94	--	--
Wyoming	W	2.08	W	1.64	2.08	W	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	3.78	W	W	3.78	3.16	--	W
Alaska	3.78	3.16	20.0%	3.78	3.16	--	--
Hawaii	--	W	W	--	--	--	W
U.S. Total	2.46	2.02	22.0%	2.54	2.08	2.19	1.85

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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) October 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	W	--	W	--	--	W	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.33	1.87	78.0%	--	--	3.33	1.87
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	--	--	W	W
East North Central	2.23	1.91	17.0%	2.53	2.10	1.82	1.66
Illinois	1.91	W	W	1.99	1.72	1.89	W
Indiana	W	W	W	2.74	2.23	W	W
Michigan	W	W	W	2.35	2.05	W	W
Ohio	W	1.64	W	2.88	1.87	W	1.62
Wisconsin	2.43	2.06	18.0%	2.43	2.06	--	--
West North Central	1.83	1.58	16.0%	1.83	1.58	--	--
Iowa	1.82	1.56	17.0%	1.82	1.56	--	--
Kansas	1.89	1.43	32.0%	1.89	1.43	--	--
Minnesota	2.32	2.09	11.0%	2.32	2.09	--	--
Missouri	1.91	1.64	16.0%	1.91	1.64	--	--
Nebraska	1.26	1.18	6.8%	1.26	1.18	--	--
North Dakota	1.66	1.59	4.4%	1.66	1.59	--	--
South Dakota	2.08	1.85	12.0%	2.08	1.85	--	--
South Atlantic	3.05	2.38	28.0%	3.09	2.46	2.82	1.88
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	3.70	2.61	42.0%	3.70	2.61	--	--
Georgia	3.73	2.73	37.0%	3.73	2.73	--	--
Maryland	5.41	W	W	--	--	5.41	W
North Carolina	3.48	W	W	3.48	2.59	--	W
South Carolina	W	W	W	3.49	2.86	W	W
Virginia	3.18	2.37	34.0%	3.18	2.37	--	--
West Virginia	W	1.94	W	2.33	2.08	W	1.52
East South Central	W	W	W	2.54	1.95	W	W
Alabama	2.74	2.17	26.0%	2.74	2.17	--	--
Kentucky	2.31	1.85	25.0%	2.31	1.85	--	--
Mississippi	W	W	W	3.75	2.50	W	W
Tennessee	3.05	1.87	63.0%	3.05	1.87	--	--
West South Central	2.20	2.06	6.8%	2.40	2.37	2.01	1.72
Arkansas	W	W	W	2.31	2.03	W	W
Louisiana	W	W	W	2.62	5.54	W	W
Oklahoma	2.58	1.72	50.0%	2.58	1.72	--	--
Texas	W	W	W	2.34	2.21	W	W
Mountain	W	1.90	W	2.15	1.93	W	1.63
Arizona	2.86	2.27	26.0%	2.86	2.27	--	--
Colorado	1.78	1.61	11.0%	1.78	1.61	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	2.31	W	W
Nevada	W	W	W	3.29	2.30	W	W
New Mexico	2.76	2.56	7.8%	2.76	2.56	--	--
Utah	2.15	1.99	8.0%	2.15	1.99	--	--
Wyoming	W	W	W	1.70	1.73	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	2.33	1.95	19.0%	2.38	2.02	2.17	1.76

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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, October 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021
New England	W	W	W	--	21.04	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	21.04	W	W
New Hampshire	--	W	W	--	--	--	W
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	18.66	15.06	24.0%	16.63	15.07	24.15	15.03
New Jersey	--	19.88	--	--	--	--	19.88
New York	W	W	W	16.63	15.07	W	W
Pennsylvania	W	W	W	--	--	W	W
East North Central	32.25	20.85	55.0%	32.04	18.85	33.19	23.44
Illinois	W	19.18	W	--	18.32	W	19.61
Indiana	32.35	19.53	66.0%	32.35	19.53	--	--
Michigan	30.45	18.21	67.0%	30.45	18.21	--	--
Ohio	W	23.74	W	33.51	19.08	W	24.15
Wisconsin	32.74	18.93	73.0%	32.74	18.93	--	--
West North Central	30.08	W	W	30.08	18.64	--	W
Iowa	30.32	19.23	58.0%	30.32	19.23	--	--
Kansas	28.03	17.84	57.0%	28.03	17.84	--	--
Minnesota	30.41	W	W	30.41	18.21	--	W
Missouri	29.47	18.60	58.0%	29.47	18.60	--	--
Nebraska	30.85	20.41	51.0%	30.85	20.41	--	--
North Dakota	31.37	19.27	63.0%	31.37	19.27	--	--
South Dakota	--	19.25	--	--	19.25	--	--
South Atlantic	W	17.45	W	26.53	17.96	W	15.59
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	29.48	19.50	51.0%	29.48	19.50	--	--
Georgia	32.43	19.96	62.0%	32.43	19.96	--	--
Maryland	--	18.42	--	--	--	--	18.42
North Carolina	27.03	18.54	46.0%	27.03	18.54	--	--
South Carolina	W	W	W	30.16	17.43	W	W
Virginia	W	W	W	12.12	11.75	W	W
West Virginia	22.84	16.70	37.0%	22.84	16.70	--	--
East South Central	30.57	18.20	68.0%	30.57	18.20	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	29.39	16.95	73.0%	29.39	16.95	--	--
Mississippi	26.12	18.32	43.0%	26.12	18.32	--	--
Tennessee	33.08	19.28	72.0%	33.08	19.28	--	--
West South Central	W	18.72	W	30.23	18.55	W	18.77
Arkansas	W	W	W	29.07	18.77	W	W
Louisiana	--	17.72	--	--	17.72	--	--
Oklahoma	31.51	20.30	55.0%	31.51	20.30	--	--
Texas	W	W	W	29.30	17.89	W	W
Mountain	W	W	W	31.92	21.28	W	W
Arizona	33.94	21.50	58.0%	33.94	21.50	--	--
Colorado	31.64	20.27	56.0%	31.64	20.27	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	W	W	W	27.14	21.12	W	W
New Mexico	--	25.10	--	--	25.10	--	--
Utah	W	W	W	28.79	21.92	W	W
Wyoming	34.56	19.67	76.0%	34.56	19.67	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	W	W	W	23.83	15.38	W	W
Alaska	32.95	20.91	58.0%	32.95	20.91	--	--
Hawaii	W	W	W	23.80	15.36	W	W
U.S. Total	23.39	16.53	42.0%	23.67	16.27	22.55	17.07

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 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) October 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	W	14.83	W	--	16.01	W	14.77
Connecticut	W	12.25	W	--	--	W	12.25
Maine	W	W	W	--	--	W	W
Massachusetts	15.86	W	W	--	16.01	15.86	W
New Hampshire	W	W	W	--	--	W	W
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	19.53	W	W	18.64	13.04	20.26	W
New Jersey	W	15.23	W	--	--	W	15.23
New York	18.53	W	W	18.64	13.04	18.41	W
Pennsylvania	W	15.48	W	--	--	W	15.48
East North Central	27.11	16.48	65.0%	27.03	14.91	27.26	19.47
Illinois	26.49	W	W	21.25	16.29	26.67	W
Indiana	27.31	W	W	27.31	14.49	--	W
Michigan	26.28	15.07	74.0%	26.28	15.07	--	--
Ohio	27.66	19.91	39.0%	29.80	16.07	27.43	20.50
Wisconsin	28.19	W	W	28.19	15.47	--	W
West North Central	25.93	W	W	25.93	15.16	--	W
Iowa	26.26	15.44	70.0%	26.26	15.44	--	--
Kansas	25.41	14.66	73.0%	25.41	14.66	--	--
Minnesota	26.92	W	W	26.92	14.83	--	W
Missouri	26.07	15.28	71.0%	26.07	15.28	--	--
Nebraska	25.10	16.35	54.0%	25.10	16.35	--	--
North Dakota	25.11	15.33	64.0%	25.11	15.33	--	--
South Dakota	--	15.93	--	--	15.93	--	--
South Atlantic	26.01	W	W	25.84	15.32	26.77	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	15.20	W	26.05	15.20	W	--
Georgia	29.69	W	W	29.69	17.06	--	W
Maryland	27.80	14.31	94.0%	--	--	27.80	14.31
North Carolina	25.76	15.20	69.0%	25.76	15.20	--	--
South Carolina	W	W	W	29.19	15.28	W	W
Virginia	W	W	W	20.47	13.73	W	W
West Virginia	W	16.01	W	25.60	16.01	W	--
East South Central	W	W	W	27.11	15.05	W	W
Alabama	W	W	W	28.12	14.72	W	W
Kentucky	25.81	14.77	75.0%	25.81	14.77	--	--
Mississippi	24.09	15.68	54.0%	24.09	15.68	--	--
Tennessee	27.68	15.43	79.0%	27.68	15.43	--	--
West South Central	26.12	15.24	71.0%	25.63	14.73	27.64	15.41
Arkansas	W	W	W	25.04	15.39	W	W
Louisiana	20.41	14.56	40.0%	20.41	14.56	--	--
Oklahoma	26.53	15.77	68.0%	26.53	15.77	--	--
Texas	W	W	W	25.80	13.60	W	W
Mountain	28.10	17.59	60.0%	28.01	17.65	29.41	16.92
Arizona	27.72	16.34	70.0%	27.72	16.34	--	--
Colorado	25.84	18.69	38.0%	25.84	18.69	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	15.86	W	W
Nevada	W	W	W	25.91	18.32	W	W
New Mexico	30.80	18.13	70.0%	30.80	18.13	--	--
Utah	W	W	W	27.17	18.74	W	W
Wyoming	28.45	17.75	60.0%	28.45	17.75	--	--
Pacific Contiguous	W	W	W	--	16.50	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	16.50	W	W
Pacific Noncontiguous	W	W	W	24.15	13.31	W	W
Alaska	30.84	17.42	77.0%	30.84	17.42	--	--
Hawaii	W	W	W	24.13	13.30	W	W
U.S. Total	24.04	14.13	70.0%	24.41	13.98	23.04	14.60

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 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, October 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.37	1.38	-0.7%	1.37	1.38	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.17	1.20	-2.5%	1.17	1.20	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	6.55	1.88	248.0%	6.55	1.88	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	6.30	--	--	6.30	--	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	6.30	--	--	6.30	--	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	4.02	4.06	-1.0%	4.02	4.06	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	4.02	4.06	-1.0%	4.02	4.06	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.35	3.03	11.0%	3.35	3.03	--	--

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 W = Withheld to avoid disclosure of individual company data.

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 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	1.15	1.20	-4.2%	1.15	1.20	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	4.16	1.88	121.0%	4.16	1.88	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	7.20	4.42	63.0%	7.20	4.42	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	7.20	4.42	63.0%	7.20	4.42	--	--
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	5.34	3.15	70.0%	5.34	3.15	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	5.34	3.15	70.0%	5.34	3.15	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	4.42	2.96	49.0%	4.42	2.96	--	--

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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 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, October 2022 and 2021
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022	October 2021	Percentage Change	October 2022	October 2021	October 2022	October 2021
New England	W	W	W	--	5.77	W	W
Connecticut	5.64	5.33	5.8%	--	--	5.64	5.33
Maine	--	W	W	--	--	--	W
Massachusetts	5.43	5.89	-7.8%	--	5.77	5.43	5.89
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	4.84	4.69	3.2%	5.11	5.40	4.82	4.64
New Jersey	4.89	4.72	3.6%	--	--	4.89	4.72
New York	5.09	4.99	2.0%	5.11	5.40	5.08	4.88
Pennsylvania	4.71	4.52	4.2%	--	--	4.71	4.52
East North Central	5.33	5.25	1.5%	5.77	5.44	5.08	5.14
Illinois	W	5.40	W	5.47	5.98	W	5.25
Indiana	W	5.36	W	5.67	5.79	W	4.98
Michigan	5.91	5.69	3.9%	7.15	6.39	5.30	5.28
Ohio	4.97	5.17	-3.9%	5.14	5.69	4.94	5.11
Wisconsin	5.13	4.50	14.0%	5.13	4.50	--	--
West North Central	W	W	W	5.60	5.11	W	W
Iowa	4.99	4.54	9.9%	4.99	4.54	--	--
Kansas	5.23	6.27	-17.0%	5.23	6.27	--	--
Minnesota	W	W	W	7.30	5.68	W	W
Missouri	W	W	W	5.56	4.50	W	W
Nebraska	5.72	7.34	-22.0%	5.72	7.34	--	--
North Dakota	9.94	3.80	162.0%	9.94	3.80	--	--
South Dakota	5.43	4.38	24.0%	5.43	4.38	--	--
South Atlantic	6.90	6.05	14.0%	7.02	6.16	6.06	5.36
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	6.85	W	8.14	6.86	W	6.43
Georgia	W	5.90	W	6.54	5.87	W	6.05
Maryland	W	5.40	W	5.28	5.25	W	5.46
North Carolina	W	4.82	W	5.37	4.75	W	5.11
South Carolina	5.57	5.07	9.9%	5.57	5.07	--	--
Virginia	5.75	5.24	9.7%	5.86	5.44	5.42	4.72
West Virginia	W	W	W	5.69	4.84	W	W
East South Central	5.76	5.44	5.9%	5.73	5.34	5.85	5.78
Alabama	W	W	W	6.37	5.98	W	W
Kentucky	W	W	W	5.45	4.95	W	W
Mississippi	W	W	W	5.52	5.29	W	W
Tennessee	5.48	4.80	14.0%	5.48	4.80	--	--
West South Central	5.31	6.14	-14.0%	5.50	6.27	5.16	6.03
Arkansas	W	W	W	5.13	7.78	W	W
Louisiana	W	W	W	5.89	5.99	W	W
Oklahoma	W	W	W	5.77	5.60	W	W
Texas	5.15	6.09	-15.0%	5.18	6.15	5.14	6.07
Mountain	5.71	6.01	-5.0%	5.67	6.00	6.03	6.06
Arizona	5.93	W	W	5.88	6.02	6.06	W
Colorado	W	W	W	6.04	6.19	W	W
Idaho	5.02	6.50	-23.0%	5.02	6.50	--	--
Montana	2.25	W	W	2.25	4.41	--	W
Nevada	5.72	6.01	-4.8%	5.72	6.01	--	--
New Mexico	4.13	5.47	-24.0%	4.13	5.47	--	--
Utah	5.74	6.21	-7.6%	5.74	6.21	--	--
Wyoming	W	4.51	W	6.85	4.51	W	--
Pacific Contiguous	6.38	5.83	9.4%	6.33	5.87	6.43	5.79
California	7.16	6.68	7.2%	7.27	6.88	7.08	6.49
Oregon	W	W	W	4.62	4.67	W	W
Washington	W	W	W	4.87	4.60	W	W
Pacific Noncontiguous	5.97	6.28	-4.9%	5.97	6.28	--	--
Alaska	5.97	6.28	-4.9%	5.97	6.28	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	5.84	5.69	2.6%	6.26	5.96	5.29	5.36

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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) October 2022 and 2021
(Dollars per MMBtu)**

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2022 YTD	October 2021 YTD	Percentage Change	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	W	W	W	8.73	4.14	W	W
Connecticut	8.69	4.05	115.0%	--	--	8.69	4.05
Maine	W	W	W	--	--	W	W
Massachusetts	W	5.03	W	8.73	4.14	W	5.04
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	3.83	W	--	--	W	3.83
Vermont	--	--	--	--	--	--	--
Middle Atlantic	6.49	3.36	93.0%	7.25	3.88	6.43	3.30
New Jersey	6.72	3.52	91.0%	--	--	6.72	3.52
New York	7.21	3.69	95.0%	7.25	3.88	7.19	3.61
Pennsylvania	6.07	3.13	94.0%	--	--	6.07	3.13
East North Central	6.31	3.78	67.0%	6.44	3.92	6.23	3.71
Illinois	6.72	4.11	64.0%	7.00	4.60	6.67	4.05
Indiana	6.30	4.08	54.0%	6.56	4.17	6.13	4.01
Michigan	6.64	3.93	69.0%	7.29	4.38	6.26	3.67
Ohio	6.17	3.49	77.0%	6.27	3.54	6.16	3.49
Wisconsin	5.79	3.59	61.0%	5.79	3.59	--	--
West North Central	W	W	W	12.35	6.04	W	W
Iowa	5.62	4.02	40.0%	5.62	4.02	--	--
Kansas	6.96	10.21	-32.0%	6.96	10.21	--	--
Minnesota	W	W	W	7.51	4.31	W	W
Missouri	W	W	W	31.39	9.40	W	W
Nebraska	7.89	13.59	-42.0%	7.89	13.59	--	--
North Dakota	9.25	2.64	250.0%	9.25	2.64	--	--
South Dakota	7.25	3.49	108.0%	7.25	3.49	--	--
South Atlantic	7.85	4.35	80.0%	7.91	4.43	7.40	3.77
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.79	W	8.50	4.79	W	4.66
Georgia	W	W	W	7.92	4.05	W	W
Maryland	W	4.11	W	7.29	4.40	W	4.02
North Carolina	W	3.95	W	6.84	4.01	W	3.70
South Carolina	6.96	4.01	74.0%	6.96	4.01	--	--
Virginia	6.95	3.71	87.0%	7.17	3.87	6.28	3.21
West Virginia	W	W	W	6.38	4.08	W	W
East South Central	6.87	3.89	77.0%	6.70	3.83	7.47	4.11
Alabama	W	W	W	7.85	4.05	W	W
Kentucky	W	W	W	6.47	4.01	W	W
Mississippi	W	W	W	6.52	3.79	W	W
Tennessee	5.89	3.45	71.0%	5.89	3.45	--	--
West South Central	6.79	8.73	-22.0%	7.04	8.28	6.58	9.12
Arkansas	W	W	W	6.76	7.26	W	W
Louisiana	W	W	W	7.18	5.30	W	W
Oklahoma	W	W	W	7.28	12.94	W	W
Texas	6.65	9.22	-28.0%	6.89	8.58	6.58	9.45
Mountain	7.27	4.94	47.0%	7.30	4.96	6.99	4.78
Arizona	7.58	W	W	7.71	4.60	7.03	W
Colorado	W	W	W	6.95	7.74	W	W
Idaho	6.65	3.99	67.0%	6.65	3.99	--	--
Montana	3.81	W	W	3.81	3.17	--	W
Nevada	7.19	4.21	71.0%	7.19	4.21	--	--
New Mexico	6.42	5.44	18.0%	6.42	5.44	--	--
Utah	7.66	4.02	91.0%	7.66	4.02	--	--
Wyoming	W	W	W	7.65	5.75	W	W
Pacific Contiguous	7.34	4.56	61.0%	7.36	4.44	7.33	4.70
California	8.15	5.18	57.0%	8.24	5.29	8.07	5.09
Oregon	W	W	W	5.27	3.20	W	W
Washington	W	W	W	5.74	3.81	W	W
Pacific Noncontiguous	5.56	6.26	-11.0%	5.56	6.26	--	--
Alaska	5.56	6.26	-11.0%	5.56	6.26	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	7.21	5.16	40.0%	7.49	5.10	6.83	5.23

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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, October 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	5	0.96	6.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.96	6.6	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	466	2.69	9.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	466	2.69	9.5	0	--	--	0	--	--
East North Central	4,245	3.13	10.7	4,206	0.25	4.7	0	--	--
Illinois	637	3.39	20.8	1,714	0.22	4.6	0	--	--
Indiana	1,858	2.90	9.2	63	0.32	5.6	0	--	--
Michigan	116	2.73	8.0	1,333	0.27	4.7	0	--	--
Ohio	1,524	3.45	9.6	0	--	--	0	--	--
Wisconsin	110	1.56	7.0	1,095	0.26	5.0	0	--	--
West North Central	39	3.09	9.1	6,869	0.26	5.0	1,739	0.67	10.2
Iowa	2	3.18	9.0	1,181	0.27	4.9	0	--	--
Kansas	0	--	--	1,373	0.28	5.2	0	--	--
Minnesota	0	--	--	717	0.33	5.7	0	--	--
Missouri	37	3.08	9.1	2,429	0.23	4.7	0	--	--
Nebraska	0	--	--	1,079	0.25	4.8	0	--	--
North Dakota	0	--	--	0	--	--	1,739	0.67	10.2
South Dakota	0	--	--	90	0.33	5.7	0	--	--
South Atlantic	4,455	2.66	9.9	388	0.34	5.4	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	607	2.72	8.6	0	--	--	0	--	--
Georgia	347	2.09	9.0	388	0.34	5.4	0	--	--
Maryland	139	2.44	13.2	0	--	--	0	--	--
North Carolina	523	2.01	9.2	0	--	--	0	--	--
South Carolina	711	1.99	9.6	0	--	--	0	--	--
Virginia	146	1.88	8.6	0	--	--	0	--	--
West Virginia	1,982	3.21	10.6	0	--	--	0	--	--
East South Central	2,527	2.71	9.9	1,810	0.28	5.2	197	0.63	15.3
Alabama	209	0.95	12.4	1,055	0.31	5.3	0	--	--
Kentucky	1,841	3.01	9.9	633	0.24	5.0	0	--	--
Mississippi	12	0.38	5.9	80	0.34	5.7	197	0.63	15.3
Tennessee	465	2.31	8.6	42	0.19	4.5	0	--	--
West South Central	2	0.73	10.0	5,998	0.28	5.1	1,535	1.16	18.0
Arkansas	2	0.73	10.0	1,312	0.21	4.7	0	--	--
Louisiana	0	--	--	330	0.24	4.9	0	--	--
Oklahoma	0	--	--	645	0.26	5.1	0	--	--
Texas	0	--	--	3,712	0.32	5.3	1,535	1.16	18.0
Mountain	611	0.52	11.0	4,850	0.51	9.0	0	--	--
Arizona	0	--	--	870	0.57	9.1	0	--	--
Colorado	82	0.46	12.0	823	0.31	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	636	0.74	9.3	0	--	--
Nevada	25	0.43	8.8	131	0.32	7.0	0	--	--
New Mexico	0	--	--	559	0.80	20.1	0	--	--
Utah	505	0.54	10.9	21	0.97	8.4	0	--	--
Wyoming	0	--	--	1,809	0.40	6.8	0	--	--
Pacific Contiguous	44	0.65	10.9	213	0.38	7.0	0	--	--
California	44	0.65	10.9	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	213	0.38	7.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	14	0.15	9.5
Alaska	0	--	--	0	--	--	14	0.15	9.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,394	2.72	10.2	24,333	0.32	5.8	3,486	0.88	13.9

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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, October 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	2,102	2.86	9.1	2,773	0.26	4.8	0	--	--
Illinois	74	2.76	9.2	281	0.21	4.9	0	--	--
Indiana	1,681	2.88	9.3	63	0.32	5.6	0	--	--
Michigan	104	2.98	8.2	1,333	0.27	4.7	0	--	--
Ohio	134	3.54	9.8	0	--	--	0	--	--
Wisconsin	110	1.56	7.0	1,095	0.26	5.0	0	--	--
West North Central	34	3.07	9.1	6,661	0.26	5.0	1,739	0.67	10.2
Iowa	0	--	--	1,019	0.28	5.0	0	--	--
Kansas	0	--	--	1,373	0.28	5.2	0	--	--
Minnesota	0	--	--	717	0.33	5.7	0	--	--
Missouri	34	3.07	9.1	2,429	0.23	4.7	0	--	--
Nebraska	0	--	--	1,034	0.25	4.9	0	--	--
North Dakota	0	--	--	0	--	--	1,739	0.67	10.2
South Dakota	0	--	--	90	0.33	5.7	0	--	--
South Atlantic	3,702	2.58	9.9	388	0.34	5.4	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	599	2.75	8.6	0	--	--	0	--	--
Georgia	328	2.17	9.2	388	0.34	5.4	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	501	2.06	9.2	0	--	--	0	--	--
South Carolina	690	2.02	9.6	0	--	--	0	--	--
Virginia	122	1.96	8.9	0	--	--	0	--	--
West Virginia	1,461	3.09	10.9	0	--	--	0	--	--
East South Central	2,463	2.76	9.9	1,810	0.28	5.2	0	--	--
Alabama	209	0.95	12.4	1,055	0.31	5.3	0	--	--
Kentucky	1,841	3.01	9.9	633	0.24	5.0	0	--	--
Mississippi	12	0.38	5.9	80	0.34	5.7	0	--	--
Tennessee	401	2.55	8.7	42	0.19	4.5	0	--	--
West South Central	0	--	--	3,366	0.26	5.0	467	1.71	23.7
Arkansas	0	--	--	1,034	0.21	4.7	0	--	--
Louisiana	0	--	--	185	0.21	4.7	0	--	--
Oklahoma	0	--	--	645	0.26	5.1	0	--	--
Texas	0	--	--	1,502	0.30	5.3	467	1.71	23.7
Mountain	611	0.52	11.0	4,089	0.48	9.0	0	--	--
Arizona	0	--	--	870	0.57	9.1	0	--	--
Colorado	82	0.46	12.0	823	0.31	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	25	0.43	8.8	49	0.37	9.9	0	--	--
New Mexico	0	--	--	559	0.80	20.1	0	--	--
Utah	505	0.54	10.9	21	0.97	8.4	0	--	--
Wyoming	0	--	--	1,767	0.41	6.9	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	14	0.15	9.5
Alaska	0	--	--	0	--	--	14	0.15	9.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	8,912	2.56	9.8	19,087	0.31	5.9	2,220	0.86	12.8

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

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Notes:

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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, October 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	5	0.96	6.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.96	6.6	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	455	2.69	9.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	455	2.69	9.5	0	--	--	0	--	--
East North Central	2,090	3.40	12.3	1,349	0.22	4.6	0	--	--
Illinois	510	3.49	24.4	1,349	0.22	4.6	0	--	--
Indiana	177	3.10	8.8	0	--	--	0	--	--
Michigan	12	0.55	6.4	0	--	--	0	--	--
Ohio	1,390	3.44	9.5	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	681	3.24	10.3	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	139	2.44	13.2	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	21	1.05	9.5	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	521	3.54	9.5	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	197	0.63	15.3
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	197	0.63	15.3
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	2,632	0.32	5.3	1,068	0.96	15.9
Arkansas	0	--	--	278	0.22	4.6	0	--	--
Louisiana	0	--	--	145	0.29	5.1	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	2,209	0.33	5.4	1,068	0.96	15.9
Mountain	0	--	--	761	0.67	8.6	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	636	0.74	9.3	0	--	--
Nevada	0	--	--	82	0.28	5.2	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	43	0.32	5.5	0	--	--
Pacific Contiguous	0	--	--	213	0.38	7.0	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	213	0.38	7.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	3,231	3.26	11.4	4,955	0.35	5.7	1,265	0.92	15.9

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

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Notes:

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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, October 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	2	3.24	10.1	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	2	3.24	10.1	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	2	3.24	10.1	0	--	--	0	--	--

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:

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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, October 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	11	2.57	8.3	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.57	8.3	0	--	--	0	--	--
East North Central	53	3.50	8.5	84	0.21	4.5	0	--	--
Illinois	53	3.50	8.5	84	0.21	4.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	2	3.18	9.0	208	0.21	4.4	0	--	--
Iowa	2	3.18	9.0	163	0.20	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	45	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	73	1.07	7.5	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	8	0.60	8.6	0	--	--	0	--	--
Georgia	19	0.90	6.8	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	21	0.91	8.3	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	24	1.50	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	64	0.91	7.7	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	64	0.91	7.7	0	--	--	0	--	--
West South Central	2	0.73	10.0	0	--	--	0	--	--
Arkansas	2	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	44	0.65	10.9	0	--	--	0	--	--
California	44	0.65	10.9	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	249	1.51	8.4	292	0.21	4.5	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."

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 - October 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
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	141,065	112,301	83,304	565	337,234
February	126,314	101,666	75,940	565	304,485
March	112,386	107,859	82,944	579	303,768
April	98,338	103,824	81,203	512	283,878
May	110,890	111,368	85,083	529	307,869
June	137,477	120,020	88,222	513	346,231
July	165,694	132,316	89,161	566	387,736
August	161,468	134,175	91,579	535	387,757
Sept	130,170	122,529	85,134	557	338,390
October	100,558	110,225	83,990	532	295,305
Year to Date					
2020	1,235,183	1,084,087	800,423	5,401	3,125,095
2021	1,252,200	1,118,418	835,413	5,322	3,211,353
2022	1,284,359	1,156,283	846,560	5,453	3,292,653
Rolling 12 Months Ending in October					
2021	1,481,622	1,321,771	994,072	6,468	3,803,933
2022	1,502,645	1,366,304	1,011,760	6,465	3,887,174

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 - October 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
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	19,345	12,751	6,080	62	38,238
February	17,463	11,984	5,673	64	35,185
March	16,243	12,683	6,218	63	35,207
April	14,467	12,377	6,364	58	33,266
May	16,568	13,522	7,121	57	37,268
June	21,164	15,475	7,904	61	44,604
July	25,525	17,391	8,392	69	51,378
August	25,741	18,156	8,710	68	52,676
Sept	21,245	16,484	7,953	70	45,752
October	16,177	14,368	7,229	63	37,838
Year to Date					
2020	162,816	115,086	53,723	535	332,160
2021	170,533	125,444	59,919	540	356,436
2022	193,939	145,193	71,646	634	411,412
Rolling 12 Months Ending in October					
2021	200,380	146,730	70,152	654	417,916
2022	224,239	168,757	83,562	740	477,298

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 - October 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
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	13.71	11.35	7.30	10.91	11.34
February	13.83	11.79	7.47	11.27	11.56
March	14.45	11.76	7.50	10.85	11.59
April	14.71	11.92	7.84	11.26	11.72
May	14.94	12.14	8.37	10.80	12.11
June	15.39	12.89	8.96	11.92	12.88
July	15.40	13.14	9.41	12.24	13.25
August	15.94	13.53	9.51	12.78	13.58
Sept	16.32	13.45	9.34	12.48	13.52
October	16.09	13.04	8.61	11.79	12.81
Year to Date					
2020	13.18	10.62	6.71	9.90	10.63
2021	13.62	11.22	7.17	10.15	11.10
2022	15.10	12.56	8.46	11.63	12.49
Rolling 12 Months Ending in October					
2021	13.52	11.10	7.06	10.10	10.99
2022	14.92	12.35	8.26	11.45	12.28

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, October 2022 and 2021 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	3,268	3,326	3,853	3,920	1,286	1,301	37	41	8,445	8,588
Connecticut	829	840	919	941	245	246	14	15	2,008	2,042
Maine	339	352	307	313	207	208	0	0	853	874
Massachusetts	1,439	1,434	1,884	1,891	512	513	21	24	3,857	3,862
New Hampshire	306	314	304	336	161	170	0	0	771	820
Rhode Island	200	231	290	289	54	52	2	2	546	573
Vermont	153	155	150	150	107	112	0	0	410	417
Middle Atlantic	8,777	9,236	11,412	11,682	6,082	6,177	276	256	26,546	27,350
New Jersey	1,625	1,868	2,930	2,959	651	542	20	23	5,226	5,392
New York	3,551	3,708	5,691	5,722	1,231	1,363	211	206	10,684	11,000
Pennsylvania	3,601	3,660	2,790	3,000	4,199	4,272	45	27	10,636	10,958
East North Central	11,905	13,143	13,974	14,411	15,321	15,569	38	41	41,237	43,164
Illinois	2,782	3,164	3,640	3,780	3,419	3,432	35	37	9,875	10,412
Indiana	2,005	2,211	1,816	1,910	3,391	3,607	1	1	7,213	7,729
Michigan	2,292	2,556	2,917	3,005	2,375	2,292	0	0	7,584	7,854
Ohio	3,308	3,605	3,764	3,810	4,163	4,222	2	2	11,238	11,640
Wisconsin	1,518	1,606	1,837	1,907	1,973	2,016	0	0	5,327	5,529
West North Central	6,792	7,091	8,003	8,118	8,513	8,350	2	3	23,310	23,561
Iowa	911	1,004	1,001	1,026	2,190	2,183	0	0	4,101	4,212
Kansas	900	926	1,250	1,258	989	1,003	0	0	3,139	3,188
Minnesota	1,512	1,572	1,756	1,815	1,743	1,808	1	2	5,013	5,196
Missouri	2,172	2,275	2,225	2,351	1,124	1,118	1	1	5,522	5,746
Nebraska	638	678	761	750	1,034	1,026	0	0	2,432	2,453
North Dakota	331	305	628	535	1,161	936	0	0	2,120	1,776
South Dakota	328	331	382	383	272	276	0	0	983	990
South Atlantic	26,115	27,739	26,144	26,690	12,499	12,454	80	90	64,837	66,974
Delaware	283	329	293	333	154	180	0	0	730	843
District of Columbia	167	174	573	569	14	21	23	24	777	787
Florida	10,759	11,437	8,264	8,381	1,596	1,502	6	6	20,625	21,325
Georgia	3,931	4,162	3,677	3,840	2,848	2,848	12	11	10,468	10,860
Maryland	1,679	1,685	2,072	2,208	297	287	29	31	4,077	4,211
North Carolina	3,762	4,070	3,927	4,050	2,292	2,133	1	1	9,982	10,254
South Carolina	2,021	2,259	1,615	1,765	2,410	2,482	0	0	6,046	6,507
Virginia	2,817	2,961	5,149	4,942	1,649	1,742	9	17	9,624	9,662
West Virginia	694	662	576	601	1,239	1,260	0	0	2,509	2,523
East South Central	7,774	8,206	7,173	7,429	8,079	8,477	0	0	23,026	24,111
Alabama	2,076	2,230	1,716	1,825	2,576	2,770	0	0	6,368	6,824
Kentucky	1,603	1,695	1,472	1,526	2,252	2,497	0	0	5,327	5,719
Mississippi	1,353	1,398	1,177	1,180	1,398	1,361	0	0	3,928	3,939
Tennessee	2,743	2,883	2,808	2,898	1,852	1,849	0	0	7,403	7,629
West South Central	16,928	17,465	16,780	17,808	17,474	18,239	17	18	51,200	53,529
Arkansas	1,272	1,329	975	989	1,510	1,571	0	0	3,758	3,890
Louisiana	2,342	2,312	2,049	1,905	3,390	2,877	1	1	7,783	7,094
Oklahoma	1,511	1,588	1,716	1,641	1,867	1,780	0	0	5,095	5,009
Texas	11,803	12,235	12,040	13,273	10,706	12,012	16	17	34,564	37,537
Mountain	7,548	7,117	8,300	7,954	7,150	6,964	12	13	23,011	22,048
Arizona	2,772	2,477	2,556	2,399	1,173	1,217	1	1	6,502	6,093
Colorado	1,415	1,436	1,666	1,706	1,300	1,260	7	8	4,388	4,409
Idaho	595	611	528	521	653	584	0	0	1,777	1,716
Montana	346	347	402	383	355	361	0	0	1,103	1,091
Nevada	1,006	838	1,048	969	1,094	1,078	1	1	3,148	2,885
New Mexico	503	497	749	717	983	864	0	0	2,235	2,078
Utah	726	721	1,057	982	752	807	4	4	2,539	2,514
Wyoming	185	191	294	278	840	794	0	0	1,318	1,263
Pacific Contiguous	11,044	10,264	14,123	13,782	7,160	7,416	70	71	32,397	31,532
California	7,281	6,194	10,428	10,166	4,120	4,221	60	61	21,889	20,641
Oregon	1,328	1,428	1,372	1,302	1,325	1,401	2	2	4,027	4,133
Washington	2,435	2,642	2,323	2,315	1,715	1,793	9	8	6,481	6,758
Pacific Noncontiguous	406	406	464	453	426	410	0	0	1,296	1,269
Alaska	159	164	209	210	117	112	0	0	485	485
Hawaii	247	242	255	243	309	298	0	0	811	783
U.S. Total	100,558	103,992	110,225	112,246	83,990	85,356	532	533	295,305	302,127

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 October 2022 and 2021 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	40,782	40,938	41,597	41,304	13,132	13,125	412	397	95,923	95,764
Connecticut	11,004	10,981	9,714	9,862	2,387	2,362	141	121	23,247	23,326
Maine	4,260	4,202	3,466	3,304	2,104	2,173	0	0	9,830	9,678
Massachusetts	16,963	17,231	20,255	20,096	5,349	5,288	251	260	42,818	42,876
New Hampshire	4,051	4,040	3,434	3,442	1,616	1,624	0	0	9,101	9,106
Rhode Island	2,694	2,686	3,121	3,036	535	544	19	15	6,369	6,281
Vermont	1,810	1,798	1,607	1,564	1,141	1,135	0	0	4,558	4,497
Middle Atlantic	117,316	117,019	122,145	120,174	61,224	61,439	2,801	2,614	303,486	301,246
New Jersey	25,723	25,929	30,899	30,432	5,465	5,497	218	208	62,305	62,066
New York	44,682	44,355	60,082	58,647	13,172	14,089	2,143	2,053	120,079	119,145
Pennsylvania	46,912	46,735	31,164	31,095	42,587	41,854	440	352	121,103	120,036
East North Central	161,256	162,229	148,900	147,284	157,052	154,523	420	435	467,628	464,471
Illinois	39,351	39,826	39,567	39,434	35,163	34,660	376	386	114,458	114,305
Indiana	28,669	28,259	19,713	19,396	36,067	36,372	11	15	84,459	84,042
Michigan	29,421	30,182	31,339	31,089	23,560	22,497	3	3	84,323	83,771
Ohio	44,734	44,823	38,637	37,840	42,385	41,467	29	31	125,785	124,161
Wisconsin	19,081	19,139	19,644	19,525	19,877	19,528	1	1	58,603	58,193
West North Central	93,431	91,038	85,716	83,521	84,156	82,232	32	36	263,335	256,827
Iowa	12,758	12,368	10,353	10,121	22,231	21,746	0	0	45,342	44,235
Kansas	12,372	11,913	13,396	13,016	9,903	9,474	0	0	35,671	34,403
Minnesota	19,606	19,411	18,845	18,497	16,886	17,659	16	19	55,353	55,585
Missouri	31,212	30,403	24,878	24,557	11,277	10,969	16	17	67,383	65,945
Nebraska	8,947	8,834	7,968	7,739	10,896	10,496	0	0	27,811	27,069
North Dakota	4,189	3,920	6,169	5,581	10,267	9,209	0	0	20,625	18,710
South Dakota	4,346	4,190	4,107	4,009	2,697	2,680	0	0	11,150	10,879
South Atlantic	329,843	319,365	277,234	264,463	124,979	120,486	823	946	732,879	705,258
Delaware	4,415	4,411	3,596	3,527	1,711	1,756	0	0	9,721	9,694
District of Columbia	2,155	2,150	6,142	5,850	151	207	204	237	8,651	8,444
Florida	119,419	112,553	84,991	79,567	16,161	14,410	64	60	220,635	206,589
Georgia	52,515	50,085	39,884	38,781	28,238	27,401	121	119	120,757	116,386
Maryland	23,297	23,483	23,035	23,076	3,011	2,896	315	363	49,659	49,818
North Carolina	52,506	51,703	41,643	40,539	23,647	22,283	12	12	117,807	114,537
South Carolina	27,601	26,814	18,567	18,024	24,344	22,829	0	0	70,513	67,667
Virginia	38,927	39,085	53,323	49,086	15,539	16,565	107	155	107,896	104,890
West Virginia	9,008	9,081	6,055	6,014	12,176	12,139	0	0	27,239	27,234
East South Central	105,067	101,918	77,441	75,562	84,228	82,847	0	0	266,737	260,326
Alabama	28,257	26,970	19,047	18,554	26,808	26,949	0	0	74,112	72,474
Kentucky	22,735	22,369	16,199	15,814	24,511	24,437	0	0	63,446	62,620
Mississippi	16,650	16,038	11,982	11,612	13,631	13,152	0	0	42,263	40,802
Tennessee	37,424	36,541	30,213	29,581	19,278	18,309	0	0	86,916	84,430
West South Central	213,819	198,734	177,134	170,326	174,430	173,689	159	157	565,542	542,906
Arkansas	16,509	16,319	10,051	9,794	15,304	15,256	0	0	41,864	41,370
Louisiana	27,381	26,358	20,024	18,968	34,022	31,273	9	8	81,435	76,607
Oklahoma	21,686	20,608	18,054	17,013	18,796	17,294	0	0	58,536	54,915
Texas	148,242	135,449	129,006	124,550	106,307	109,866	150	149	383,706	370,014
Mountain	93,985	92,757	86,559	83,396	72,723	70,624	128	127	253,395	246,904
Arizona	33,584	32,736	26,738	25,545	11,880	11,806	9	9	72,210	70,096
Colorado	17,453	17,576	17,530	17,334	12,931	12,616	76	73	47,990	47,599
Idaho	7,846	7,561	5,608	5,499	8,274	8,275	0	0	21,728	21,335
Montana	4,706	4,565	4,179	4,090	3,876	3,761	0	0	12,760	12,417
Nevada	12,469	12,638	11,153	10,503	10,673	10,391	6	4	34,301	33,537
New Mexico	6,139	6,037	7,725	7,324	9,204	7,989	0	0	23,068	21,350
Utah	9,380	9,280	10,635	10,245	7,646	7,948	38	41	27,699	27,514
Wyoming	2,409	2,362	2,991	2,856	8,239	7,839	0	0	13,638	13,057
Pacific Contiguous	124,939	124,202	135,105	127,978	70,610	72,588	678	611	331,333	325,380
California	76,904	77,106	97,193	90,592	39,385	40,209	564	511	214,046	208,418
Oregon	16,471	16,413	13,804	13,665	13,329	14,475	19	19	43,623	44,572
Washington	31,564	30,683	24,108	23,721	17,896	17,905	96	81	73,663	72,390
Pacific Noncontiguous	3,920	4,001	4,450	4,410	4,024	3,859	0	0	12,395	12,270
Alaska	1,634	1,662	2,115	2,094	1,153	1,096	0	0	4,902	4,851
Hawaii	2,286	2,339	2,336	2,316	2,871	2,763	0	0	7,493	7,418
U.S. Total	1,284,359	1,252,200	1,156,283	1,118,418	846,560	835,413	5,453	5,322	3,292,653	3,211,353

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

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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 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, October 2022 and 2021 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	839	728	702	654	192	170	4	4	1,738	1,557
Connecticut	208	193	166	157	35	24	2	2	411	375
Maine	78	64	45	43	21	21	0	0	144	128
Massachusetts	378	322	357	329	91	80	1	2	828	732
New Hampshire	93	66	60	55	23	24	0	0	176	145
Rhode Island	49	52	48	45	9	8	0	0	107	105
Vermont	32	32	27	26	13	13	0	0	72	71
Middle Atlantic	1,729	1,599	1,788	1,630	506	448	35	29	4,058	3,706
New Jersey	267	302	393	372	69	59	3	2	731	735
New York	827	766	1,081	980	94	92	30	26	2,031	1,863
Pennsylvania	635	530	314	278	343	297	3	2	1,295	1,107
East North Central	1,991	1,935	1,690	1,579	1,331	1,195	3	3	5,015	4,712
Illinois	480	442	432	393	300	269	3	2	1,215	1,106
Indiana	344	315	265	223	345	283	0	0	954	822
Michigan	417	459	365	371	199	186	0	0	980	1,016
Ohio	504	479	410	386	329	303	0	0	1,243	1,169
Wisconsin	246	240	218	206	159	154	0	0	622	600
West North Central	908	879	839	789	648	597	0	0	2,396	2,265
Iowa	122	125	99	97	137	132	0	0	358	355
Kansas	136	122	154	131	90	73	0	0	380	327
Minnesota	226	222	216	208	160	158	0	0	603	588
Missouri	265	255	207	200	84	76	0	0	557	530
Nebraska	77	77	66	65	75	68	0	0	218	210
North Dakota	39	35	57	49	79	69	0	0	175	154
South Dakota	43	42	40	38	22	22	0	0	106	101
South Atlantic	3,746	3,488	2,974	2,607	999	846	8	8	7,728	6,949
Delaware	46	45	34	32	14	14	0	0	94	91
District of Columbia	26	24	96	79	1	2	2	2	125	107
Florida	1,529	1,386	948	808	157	119	1	1	2,635	2,313
Georgia	563	535	453	435	236	201	1	1	1,252	1,172
Maryland	266	244	282	236	30	26	3	2	581	508
North Carolina	508	493	382	351	160	130	0	0	1,050	974
South Carolina	297	305	191	197	170	156	0	0	658	658
Virginia	412	366	524	410	147	121	1	1	1,084	899
West Virginia	100	90	64	60	84	76	0	0	248	227
East South Central	1,080	1,008	911	831	600	528	0	0	2,591	2,367
Alabama	315	305	236	224	200	181	0	0	751	710
Kentucky	224	208	182	166	171	162	0	0	577	537
Mississippi	182	165	147	128	101	80	0	0	430	373
Tennessee	358	330	347	313	128	105	0	0	833	747
West South Central	2,450	2,164	1,698	1,536	1,299	1,134	1	1	5,448	4,835
Arkansas	160	154	104	100	113	103	0	0	377	357
Louisiana	329	270	265	203	281	192	0	0	876	664
Oklahoma	218	205	185	162	133	107	0	0	536	474
Texas	1,743	1,534	1,143	1,072	772	732	1	1	3,659	3,339
Mountain	1,014	891	882	782	541	462	1	1	2,438	2,135
Arizona	363	318	274	249	87	81	0	0	725	648
Colorado	212	197	202	186	118	103	1	1	532	486
Idaho	67	65	45	42	41	34	0	0	153	141
Montana	43	41	46	42	24	24	0	0	114	106
Nevada	153	105	106	78	90	61	0	0	350	244
New Mexico	74	68	86	76	72	55	0	0	231	198
Utah	80	75	93	82	52	51	1	0	225	209
Wyoming	22	22	28	27	57	54	0	0	108	103
Pacific Contiguous	2,272	1,807	2,733	2,399	969	865	9	9	5,983	5,079
California	1,856	1,364	2,375	2,059	774	670	8	8	5,014	4,100
Oregon	158	168	130	121	88	85	0	0	376	375
Washington	258	275	228	219	107	109	1	1	593	604
Pacific Noncontiguous	148	122	151	119	144	104	0	0	443	344
Alaska	37	38	42	42	22	21	0	0	101	100
Hawaii	111	83	109	77	122	83	0	0	342	244
U.S. Total	16,177	14,619	14,368	12,927	7,229	6,349	63	55	37,838	33,950

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

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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 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through October 2022 and 2021 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	9,981	8,771	7,534	6,719	2,018	1,663	46	35	19,579	17,188
Connecticut	2,734	2,422	1,798	1,621	354	228	24	15	4,911	4,285
Maine	960	706	540	420	238	203	0	0	1,738	1,329
Massachusetts	4,327	3,914	3,788	3,399	952	795	18	17	9,084	8,126
New Hampshire	993	792	628	553	242	223	0	0	1,863	1,568
Rhode Island	603	591	502	469	94	87	3	3	1,202	1,150
Vermont	364	344	279	258	138	129	0	0	781	730
Middle Atlantic	21,450	19,255	18,673	16,096	5,301	4,163	361	304	45,785	39,818
New Jersey	4,334	4,253	4,328	3,879	684	588	29	19	9,375	8,740
New York	9,738	8,617	11,015	9,490	1,108	886	297	261	22,159	19,253
Pennsylvania	7,378	6,384	3,330	2,727	3,508	2,690	35	24	14,252	11,825
East North Central	24,871	22,746	17,482	15,642	13,297	11,024	33	29	55,683	49,441
Illinois	6,185	5,201	4,637	3,777	3,149	2,490	28	25	13,999	11,493
Indiana	4,245	3,752	2,542	2,232	3,183	2,650	1	1	9,971	8,635
Michigan	5,223	5,299	3,896	3,822	1,967	1,726	0	0	11,086	10,847
Ohio	6,235	5,710	4,076	3,668	3,304	2,658	3	2	13,618	12,038
Wisconsin	2,982	2,783	2,331	2,144	1,694	1,500	0	0	7,008	6,427
West North Central	12,136	11,185	9,175	8,389	6,684	6,097	3	3	27,997	25,675
Iowa	1,703	1,595	1,109	1,045	1,623	1,479	0	0	4,436	4,119
Kansas	1,753	1,545	1,573	1,372	843	699	0	0	4,169	3,616
Minnesota	2,796	2,633	2,323	2,083	1,568	1,462	2	2	6,689	6,179
Missouri	3,891	3,507	2,468	2,279	922	782	1	1	7,282	6,570
Nebraska	992	955	713	686	794	779	0	0	2,499	2,420
North Dakota	466	433	566	515	714	680	0	0	1,747	1,629
South Dakota	534	517	422	409	219	217	0	0	1,175	1,142
South Atlantic	44,956	38,575	30,446	24,649	10,043	7,788	81	76	85,526	71,088
Delaware	593	547	391	331	158	133	0	0	1,141	1,011
District of Columbia	300	279	952	745	11	16	21	22	1,285	1,062
Florida	16,595	13,325	9,479	7,494	1,507	1,092	6	5	27,586	21,915
Georgia	7,498	6,293	5,133	4,090	2,622	1,765	12	8	15,264	12,156
Maryland	3,332	3,047	2,874	2,328	302	241	29	27	6,537	5,643
North Carolina	6,346	5,858	3,774	3,429	1,624	1,383	1	1	11,745	10,671
South Carolina	3,886	3,432	2,164	1,899	1,752	1,362	0	0	7,802	6,692
Virginia	5,212	4,692	5,050	3,767	1,259	1,054	11	13	11,532	9,526
West Virginia	1,195	1,101	630	567	810	742	0	0	2,634	2,410
East South Central	13,706	11,958	9,598	8,362	6,223	4,917	0	0	29,527	25,238
Alabama	4,089	3,565	2,558	2,237	2,092	1,728	0	0	8,739	7,530
Kentucky	2,901	2,540	1,927	1,681	1,861	1,422	0	0	6,689	5,643
Mississippi	2,097	1,842	1,442	1,247	942	775	0	0	4,482	3,864
Tennessee	4,619	4,012	3,672	3,196	1,327	993	0	0	9,617	8,201
West South Central	28,000	23,269	17,208	15,336	12,615	10,671	11	11	57,834	49,286
Arkansas	1,965	1,838	1,029	947	1,132	1,004	0	0	4,125	3,789
Louisiana	3,466	2,881	2,346	1,915	2,508	1,912	1	1	8,321	6,710
Oklahoma	2,757	2,263	1,893	1,480	1,303	946	0	0	5,953	4,688
Texas	19,811	16,287	11,941	10,994	7,673	6,809	10	10	39,434	34,100
Mountain	12,089	11,161	8,969	8,136	5,443	4,758	13	13	26,515	24,067
Arizona	4,382	4,108	2,905	2,660	912	807	1	1	8,200	7,575
Colorado	2,491	2,281	2,044	1,885	1,134	1,009	7	7	5,677	5,182
Idaho	820	766	466	435	563	538	0	0	1,849	1,739
Montana	528	512	437	430	260	236	0	0	1,225	1,178
Nevada	1,697	1,437	1,057	811	870	638	1	0	3,625	2,886
New Mexico	870	819	868	795	623	490	0	0	2,360	2,104
Utah	1,032	972	905	842	515	498	5	5	2,457	2,317
Wyoming	270	266	287	279	565	541	0	0	1,122	1,087
Pacific Contiguous	25,394	22,464	24,749	20,998	8,770	7,917	85	70	58,999	51,449
California	20,283	17,495	21,178	17,593	6,863	6,005	74	60	48,399	41,153
Oregon	1,874	1,870	1,278	1,244	842	869	2	2	3,995	3,985
Washington	3,237	3,100	2,294	2,161	1,065	1,042	10	8	6,605	6,311
Pacific Noncontiguous	1,357	1,150	1,359	1,116	1,251	920	0	0	3,967	3,186
Alaska	378	376	420	411	212	184	0	0	1,009	971
Hawaii	979	774	939	705	1,040	736	0	0	2,957	2,215
U.S. Total	193,939	170,533	145,193	125,444	71,646	59,919	634	540	411,412	356,436

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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 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, October 2022 and 2021 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	25.68	21.90	18.23	16.69	14.95	13.08	10.78	8.50	20.58	18.13
Connecticut	25.04	22.93	18.08	16.66	14.26	9.89	16.23	10.17	20.47	18.37
Maine	23.06	18.17	14.63	13.81	9.94	10.10	--	--	16.84	14.68
Massachusetts	26.28	22.48	18.96	17.38	17.85	15.57	6.38	6.84	21.47	18.97
New Hampshire	30.44	21.06	19.74	16.39	14.44	13.88	--	--	22.88	17.66
Rhode Island	24.64	22.39	16.39	15.46	17.28	16.10	18.39	17.70	19.51	18.31
Vermont	21.14	20.55	17.89	17.29	11.96	11.63	--	--	17.56	16.98
Middle Atlantic	19.70	17.31	15.66	13.95	8.33	7.25	12.78	11.47	15.29	13.55
New Jersey	16.42	16.18	13.40	12.58	10.67	10.81	12.76	8.62	13.99	13.63
New York	23.29	20.66	19.00	17.12	7.60	6.76	14.01	12.38	19.01	16.94
Pennsylvania	17.63	14.49	11.25	9.27	8.18	6.95	7.04	6.87	12.18	10.11
East North Central	16.72	14.72	12.09	10.96	8.69	7.68	8.01	6.55	12.16	10.92
Illinois	17.25	13.98	11.87	10.38	8.77	7.84	7.47	6.31	12.30	10.62
Indiana	17.15	14.25	14.61	11.70	10.17	7.84	15.81	10.31	13.23	10.63
Michigan	18.18	17.97	12.50	12.34	8.38	8.10	13.04	12.10	12.92	12.94
Ohio	15.25	13.28	10.88	10.14	7.90	7.19	13.75	7.18	11.06	10.04
Wisconsin	16.19	14.92	11.87	10.81	8.05	7.65	16.38	15.42	11.68	10.85
West North Central	13.37	12.39	10.49	9.72	7.62	7.15	11.43	11.03	10.28	9.61
Iowa	13.36	12.50	9.89	9.50	6.28	6.06	--	--	8.73	8.43
Kansas	15.10	13.19	12.30	10.45	9.13	7.29	--	--	12.10	10.25
Minnesota	14.95	14.11	12.32	11.45	9.18	8.72	12.06	11.03	12.02	11.31
Missouri	12.21	11.20	9.29	8.50	7.51	6.77	10.64	11.02	10.08	9.23
Nebraska	12.03	11.35	8.72	8.71	7.27	6.63	--	--	8.97	8.57
North Dakota	11.73	11.63	9.09	9.23	6.78	7.35	--	--	8.23	8.65
South Dakota	13.25	12.67	10.50	9.88	8.16	7.84	--	--	10.77	10.25
South Atlantic	14.34	12.57	11.38	9.77	7.99	6.79	10.30	8.41	11.92	10.38
Delaware	16.16	13.64	11.74	9.59	9.04	7.94	--	--	12.88	10.82
District of Columbia	15.47	13.80	16.74	13.91	6.97	8.90	9.82	9.33	16.09	13.62
Florida	14.21	12.12	11.47	9.64	9.85	7.91	10.73	8.41	12.78	10.84
Georgia	14.31	12.86	12.33	11.32	8.27	7.07	8.10	7.48	11.96	10.79
Maryland	15.86	14.50	13.60	10.68	10.06	8.91	11.10	8.03	14.26	12.07
North Carolina	13.51	12.10	9.72	8.67	6.99	6.11	8.83	8.01	10.52	9.50
South Carolina	14.68	13.49	11.83	11.17	7.07	6.28	--	--	10.89	10.11
Virginia	14.61	12.37	10.18	8.30	8.92	6.97	11.64	8.42	11.26	9.31
West Virginia	14.40	13.66	11.15	9.99	6.77	6.06	--	--	9.88	8.99
East South Central	13.89	12.28	12.71	11.19	7.42	6.22	--	--	11.25	9.82
Alabama	15.19	13.70	13.74	12.26	7.75	6.52	--	--	11.79	10.40
Kentucky	13.99	12.28	12.34	10.90	7.61	6.49	--	--	10.83	9.38
Mississippi	13.44	11.80	12.51	10.86	7.24	5.90	--	--	10.95	9.48
Tennessee	13.07	11.43	12.36	10.81	6.89	5.65	--	--	11.25	9.79
West South Central	14.48	12.39	10.12	8.63	7.43	6.22	7.15	6.63	10.64	9.03
Arkansas	12.58	11.62	10.67	10.09	7.46	6.54	13.08	12.00	10.03	9.18
Louisiana	14.06	11.69	12.95	10.63	8.30	6.66	14.08	10.49	11.26	9.37
Oklahoma	14.42	12.91	10.78	9.85	7.12	6.03	--	--	10.52	9.46
Texas	14.77	12.54	9.50	8.08	7.21	6.10	6.72	6.45	10.59	8.90
Mountain	13.43	12.51	10.62	9.83	7.56	6.63	11.08	9.73	10.59	9.69
Arizona	13.10	12.82	10.74	10.38	7.42	6.69	9.21	9.15	11.15	10.63
Colorado	14.97	13.73	12.13	10.90	9.05	8.15	10.54	9.41	12.13	11.03
Idaho	11.24	10.58	8.61	8.13	6.24	5.77	--	--	8.62	8.20
Montana	12.46	11.71	11.49	10.87	6.82	6.55	--	--	10.29	9.71
Nevada	15.23	12.58	10.15	8.07	8.25	5.64	10.67	7.57	11.11	8.47
New Mexico	14.68	13.62	11.46	10.57	7.30	6.35	--	--	10.35	9.54
Utah	10.99	10.46	8.80	8.34	6.93	6.31	12.53	10.76	8.88	8.30
Wyoming	12.01	11.66	9.68	9.69	6.81	6.82	--	--	8.18	8.18
Pacific Contiguous	20.57	17.60	19.35	17.41	13.53	11.66	13.39	12.33	18.47	16.11
California	25.49	22.02	22.78	20.25	18.80	15.88	13.93	12.76	22.91	19.87
Oregon	11.91	11.77	9.45	9.32	6.61	6.09	11.27	9.82	9.33	9.07
Washington	10.59	10.39	9.81	9.48	6.22	6.09	10.16	9.71	9.15	8.94
Pacific Noncontiguous	36.54	29.92	32.61	26.21	33.71	25.35	--	--	34.20	27.12
Alaska	23.59	23.19	20.28	19.91	18.43	18.41	--	--	20.91	20.68
Hawaii	44.85	34.48	42.74	31.64	39.51	27.94	--	--	42.15	31.11
U.S. Total	16.09	14.06	13.04	11.52	8.61	7.44	11.79	10.25	12.81	11.24

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 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through October 2022 and 2021 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD	October 2022 YTD	October 2021 YTD
New England	24.47	21.42	18.11	16.27	15.37	12.67	11.06	8.74	20.41	17.95
Connecticut	24.85	22.06	18.51	16.44	14.83	9.64	17.25	12.12	21.13	18.37
Maine	22.55	16.81	15.58	12.71	11.29	9.34	--	--	17.68	13.73
Massachusetts	25.51	22.72	18.70	16.92	17.79	15.03	7.09	6.52	21.21	18.95
New Hampshire	24.51	19.61	18.29	16.06	14.99	13.71	--	--	20.47	17.22
Rhode Island	22.38	22.01	16.08	15.43	17.62	15.97	17.61	19.99	18.88	18.30
Vermont	20.11	19.14	17.33	16.48	12.09	11.33	--	--	17.12	16.24
Middle Atlantic	18.28	16.45	15.29	13.39	8.66	6.78	12.90	11.64	15.09	13.22
New Jersey	16.85	16.40	14.01	12.75	12.52	10.70	13.11	9.25	15.05	14.08
New York	21.79	19.43	18.33	16.18	8.41	6.29	13.88	12.71	18.45	16.16
Pennsylvania	15.73	13.66	10.69	8.77	8.24	6.43	8.00	6.84	11.77	9.85
East North Central	15.42	14.02	11.74	10.62	8.47	7.13	7.84	6.62	11.91	10.64
Illinois	15.72	13.06	11.72	9.58	8.96	7.18	7.47	6.37	12.23	10.05
Indiana	14.81	13.28	12.90	11.51	8.82	7.28	12.75	9.90	11.81	10.27
Michigan	17.75	17.56	12.43	12.29	8.35	7.67	12.24	12.30	13.15	12.95
Ohio	13.94	12.74	10.55	9.69	7.80	6.41	10.02	7.49	10.83	9.70
Wisconsin	15.63	14.54	11.87	10.98	8.52	7.68	17.02	15.36	11.96	11.04
West North Central	12.99	12.29	10.70	10.04	7.94	7.41	10.56	9.43	10.63	10.00
Iowa	13.35	12.89	10.71	10.32	7.30	6.80	--	--	9.78	9.31
Kansas	14.17	12.97	11.75	10.54	8.51	7.38	--	--	11.69	10.51
Minnesota	14.26	13.56	12.33	11.26	9.29	8.28	12.41	10.25	12.08	11.12
Missouri	12.47	11.54	9.92	9.28	8.18	7.13	8.72	8.52	10.81	9.96
Nebraska	11.08	10.81	8.95	8.87	7.29	7.42	--	--	8.99	8.94
North Dakota	11.13	11.06	9.18	9.23	6.96	7.39	--	--	8.47	8.71
South Dakota	12.29	12.33	10.27	10.21	8.13	8.08	--	--	10.54	10.50
South Atlantic	13.63	12.08	10.98	9.32	8.04	6.46	9.81	8.01	11.67	10.08
Delaware	13.43	12.41	10.86	9.40	9.21	7.55	--	--	11.74	10.43
District of Columbia	13.93	12.98	15.50	12.73	7.44	7.85	10.32	9.25	14.85	12.58
Florida	13.90	11.84	11.15	9.42	9.32	7.58	10.20	8.22	12.50	10.61
Georgia	14.28	12.56	12.87	10.55	9.28	6.44	9.76	6.62	12.64	10.44
Maryland	14.30	12.98	12.48	10.09	10.02	8.32	9.21	7.51	13.16	11.33
North Carolina	12.09	11.33	9.06	8.46	6.87	6.21	7.51	7.82	9.97	9.32
South Carolina	14.08	12.80	11.65	10.54	7.20	5.97	--	--	11.06	9.89
Virginia	13.39	12.01	9.47	7.68	8.10	6.36	10.68	8.28	10.69	9.08
West Virginia	13.26	12.12	10.40	9.43	6.65	6.11	--	--	9.67	8.85
East South Central	13.05	11.73	12.39	11.07	7.39	5.94	--	--	11.07	9.69
Alabama	14.47	13.22	13.43	12.06	7.81	6.41	--	--	11.79	10.39
Kentucky	12.76	11.35	11.89	10.63	7.59	5.82	--	--	10.54	9.01
Mississippi	12.60	11.48	12.04	10.74	6.91	5.89	--	--	10.60	9.47
Tennessee	12.34	10.98	12.15	10.80	6.88	5.42	--	--	11.07	9.71
West South Central	13.10	11.71	9.71	9.00	7.23	6.14	7.08	6.78	10.23	9.08
Arkansas	11.90	11.26	10.23	9.67	7.39	6.58	15.72	13.21	9.85	9.16
Louisiana	12.66	10.93	11.71	10.10	7.37	6.11	12.13	10.91	10.22	8.76
Oklahoma	12.72	10.98	10.49	8.70	6.93	5.47	--	--	10.17	8.54
Texas	13.36	12.02	9.26	8.83	7.22	6.20	6.78	6.55	10.28	9.22
Mountain	12.86	12.03	10.36	9.76	7.48	6.74	10.52	9.99	10.46	9.75
Arizona	13.05	12.55	10.86	10.41	7.68	6.84	9.68	9.48	11.36	10.81
Colorado	14.27	12.98	11.66	10.87	8.77	8.00	9.79	9.44	11.83	10.89
Idaho	10.45	10.13	8.32	7.91	6.80	6.50	--	--	8.51	8.15
Montana	11.22	11.22	10.45	10.50	6.71	6.28	--	--	9.60	9.49
Nevada	13.61	11.37	9.48	7.72	8.15	6.14	9.47	7.71	10.57	8.60
New Mexico	14.17	13.56	11.23	10.86	6.77	6.13	--	--	10.23	9.85
Utah	11.00	10.48	8.51	8.22	6.74	6.27	12.32	11.32	8.87	8.42
Wyoming	11.21	11.27	9.58	9.78	6.86	6.91	--	--	8.22	8.32
Pacific Contiguous	20.32	18.09	18.32	16.41	12.42	10.91	12.57	11.44	17.81	15.81
California	26.38	22.69	21.79	19.42	17.43	14.94	13.07	11.74	22.61	19.75
Oregon	11.38	11.39	9.26	9.11	6.31	6.01	10.45	9.70	9.16	8.94
Washington	10.25	10.10	9.51	9.11	5.95	5.82	10.05	9.95	8.97	8.72
Pacific Noncontiguous	34.61	28.75	30.53	25.30	31.09	23.85	--	--	32.00	25.97
Alaska	23.14	22.60	19.85	19.62	18.35	16.83	--	--	20.59	20.01
Hawaii	42.81	33.11	40.20	30.43	36.21	26.63	--	--	39.47	29.86
U.S. Total	15.10	13.62	12.56	11.22	8.46	7.17	11.63	10.15	12.49	11.10

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

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

Notes: - See Glossary for definitions. - Values 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 5.7. Number of Ultimate Customers Served by Sector:
2012 - October 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
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	138,341,941	19,141,776	1,022,956	81	158,506,754
February	138,764,653	19,145,390	1,014,778	81	158,924,902
March	140,338,039	19,422,388	1,039,154	81	160,799,662
April	139,167,273	19,240,898	1,032,417	81	159,440,669
May	139,187,418	19,316,953	1,049,752	81	159,554,204
June	140,097,448	19,381,897	1,068,835	81	160,548,261
July	139,668,244	19,299,236	1,063,847	81	160,031,408
August	140,695,882	19,390,068	1,081,722	81	161,167,753
Sept	140,373,593	19,359,268	1,074,564	81	160,807,506
October	140,412,705	19,302,676	1,065,729	81	160,781,191
Rolling 12 Months Ending in October					
2021	138,042,200	19,048,830	1,016,008	83	158,107,121
2022	139,582,674	19,289,427	1,048,391	81	159,920,572

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:
October 2022 and 2021**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	6,566,829	6,457,036	936,537	912,840	21,837	22,295	6	6	7,525,209	7,392,177
Connecticut	1,539,612	1,533,246	156,818	155,782	3,991	4,043	3	3	1,700,424	1,693,074
Maine	720,386	713,800	106,654	98,264	2,083	2,410	0	0	829,123	814,474
Massachusetts	2,899,842	2,797,367	441,190	427,080	10,668	10,751	2	2	3,351,702	3,235,200
New Hampshire	645,896	638,788	110,286	110,484	3,182	3,187	0	0	759,364	752,459
Rhode Island	441,844	453,176	60,345	60,497	1,668	1,656	1	1	503,858	515,330
Vermont	319,249	320,659	61,244	60,733	245	248	0	0	380,738	381,640
Middle Atlantic	16,570,791	16,418,991	2,438,012	2,430,464	34,603	33,670	19	19	19,043,425	18,883,144
New Jersey	3,698,259	3,667,656	534,298	530,778	11,482	11,530	6	6	4,244,045	4,209,970
New York	7,379,755	7,268,794	1,173,757	1,173,203	7,255	7,344	8	8	8,560,775	8,449,349
Pennsylvania	5,492,777	5,482,541	729,957	726,483	15,866	14,796	5	5	6,238,605	6,223,825
East North Central	20,643,033	20,597,466	2,556,224	2,555,828	55,135	55,244	10	11	23,254,402	23,208,549
Illinois	5,357,929	5,365,192	635,951	633,973	5,633	5,454	3	3	5,999,516	6,004,622
Indiana	2,947,187	2,955,440	373,005	365,877	19,060	19,036	1	1	3,339,253	3,340,354
Michigan	4,490,572	4,463,953	555,814	552,049	5,567	5,657	2	2	5,051,955	5,021,661
Ohio	5,059,002	5,047,921	628,152	641,734	19,397	19,553	2	3	5,706,553	5,709,211
Wisconsin	2,788,343	2,764,960	363,302	362,195	5,478	5,544	2	2	3,157,125	3,132,701
West North Central	9,853,217	9,711,164	1,515,176	1,507,591	126,337	124,619	3	3	11,494,733	11,343,377
Iowa	1,440,527	1,420,643	248,614	247,267	8,359	9,209	0	0	1,697,500	1,677,119
Kansas	1,314,894	1,292,993	247,864	246,119	24,637	23,866	0	0	1,587,395	1,562,978
Minnesota	2,540,685	2,505,736	307,986	307,194	9,016	8,862	1	1	2,857,688	2,821,793
Missouri	2,852,001	2,813,422	396,248	396,276	9,805	9,968	2	2	3,258,056	3,219,668
Nebraska	887,914	871,598	160,691	157,927	60,951	59,692	0	0	1,109,556	1,089,217
North Dakota	394,458	392,342	77,453	77,352	9,378	8,952	0	0	481,289	478,646
South Dakota	422,738	414,430	76,320	75,456	4,191	4,070	0	0	503,249	493,956
South Atlantic	30,195,949	29,418,941	4,037,702	3,967,247	87,816	85,325	13	13	34,321,480	33,471,526
Delaware	458,960	455,643	59,115	58,827	818	862	0	0	518,893	515,332
District of Columbia	309,170	300,122	27,208	26,828	1	1	3	3	336,382	326,954
Florida	10,507,379	9,989,148	1,339,729	1,277,878	25,766	23,147	2	2	11,872,876	11,290,175
Georgia	4,665,355	4,583,356	606,181	602,571	24,360	24,081	1	1	5,295,897	5,210,009
Maryland	2,418,575	2,399,931	260,678	258,516	9,024	9,001	5	5	2,688,282	2,667,453
North Carolina	4,890,498	4,821,491	741,649	743,658	9,342	9,580	1	1	5,641,490	5,574,730
South Carolina	2,476,487	2,440,938	406,185	405,999	3,602	3,671	0	0	2,886,274	2,850,608
Virginia	3,605,873	3,565,902	446,879	444,127	3,708	3,685	1	1	4,056,461	4,013,715
West Virginia	863,652	862,410	150,078	148,843	11,195	11,297	0	0	1,024,925	1,022,550
East South Central	8,709,987	8,708,464	1,462,504	1,462,109	24,815	23,566	0	0	10,197,306	10,194,139
Alabama	2,345,533	2,321,566	380,174	378,975	7,980	7,223	0	0	2,733,687	2,707,764
Kentucky	2,011,438	2,037,022	319,367	318,225	5,856	5,416	0	0	2,336,661	2,360,663
Mississippi	1,347,032	1,319,526	242,431	241,500	9,958	9,909	0	0	1,599,421	1,570,935
Tennessee	3,005,984	3,030,350	520,532	523,409	1,021	1,018	0	0	3,527,537	3,554,777
West South Central	17,391,686	17,068,366	2,339,321	2,362,888	410,738	374,783	6	6	20,141,751	19,806,043
Arkansas	1,451,409	1,423,044	205,210	199,932	38,300	38,864	2	2	1,694,921	1,661,842
Louisiana	2,155,763	2,106,188	295,865	295,162	19,789	19,695	1	1	2,471,418	2,421,046
Oklahoma	1,853,525	1,826,071	300,228	298,951	19,198	20,120	0	0	2,172,951	2,145,142
Texas	11,930,989	11,713,063	1,538,018	1,568,843	333,451	296,104	3	3	13,802,461	13,578,013
Mountain	10,443,139	10,405,316	1,480,775	1,474,817	99,760	98,797	5	5	12,023,679	11,978,935
Arizona	2,996,219	2,969,547	338,838	336,223	7,253	7,533	2	2	3,342,312	3,313,305
Colorado	2,432,880	2,454,180	390,194	390,531	14,931	15,372	1	1	2,838,006	2,860,084
Idaho	829,210	812,814	119,889	118,186	29,258	29,062	0	0	978,357	960,062
Montana	542,571	533,881	115,013	113,147	12,902	12,600	0	0	670,486	659,628
Nevada	1,274,093	1,253,988	173,729	172,066	3,236	3,247	1	1	1,451,059	1,429,302
New Mexico	904,664	916,743	146,183	146,610	9,473	9,310	0	0	1,060,320	1,072,663
Utah	1,180,940	1,184,858	138,095	139,836	10,989	10,116	1	1	1,330,025	1,334,811
Wyoming	282,562	279,305	58,834	58,218	11,718	11,557	0	0	353,114	349,080
Pacific Contiguous	19,295,868	18,963,736	2,419,166	2,404,655	202,732	200,645	19	19	21,917,785	21,569,055
California	14,182,641	13,923,515	1,767,527	1,767,401	151,146	148,801	12	12	16,101,326	15,839,729
Oregon	1,836,055	1,811,468	248,822	243,160	25,293	26,229	2	2	2,110,172	2,080,859
Washington	3,277,172	3,228,753	402,817	394,094	26,293	25,615	5	5	3,706,287	3,648,467
Pacific Noncontiguous	742,206	737,881	117,259	116,190	1,956	1,947	0	0	861,421	856,018
Alaska	296,727	293,656	57,202	56,162	1,148	1,118	0	0	355,077	350,936
Hawaii	445,479	444,225	60,057	60,028	808	829	0	0	506,344	505,082
U.S. Total	140,412,705	138,487,361	19,302,676	19,194,629	1,065,729	1,020,891	81	82	160,781,191	158,702,963

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), September 2022 to October 2022

Technology	Capacity Source	As of End of September 2022	Activity During October 2022 as Reported to EIA		As of End of October 2022	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA									
			Total In-Service Capacity	Actual Capacity Additions		Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Planned Capacity Additions		Reductions		Planned Net Change		Capacity	
											Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... Onshore Wind (Summer Capacity)	Utility Scale Facilities	138,112.4	280.9	0.0	138,393.3	280.9	5,681.2	10,210.2	673.5	7,263.2	0.0	97.5	673.5	7,165.7	139,066.8	145,559.0		
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	41.3	0.0	0.0	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.3	41.3		
..... Wind (Summer Capacity)	Utility Scale Facilities	138,153.7	280.9	0.0	138,434.6	280.9	5,681.2	10,210.2	673.5	7,263.2	0.0	97.5	673.5	7,165.7	139,108.1	145,600.3		
..... Solar Photovoltaic	Utility Scale Facilities	66,267.9	880.4	0.9	67,147.4	879.5	7,077.3	11,659.4	1,990.1	22,895.9	0.0	0.0	1,990.1	22,895.9	69,137.5	90,043.3		
..... Solar Thermal without Energy Storage	Utility Scale Facilities	1,074.4	0.0	0.0	1,074.4	0.0	0.0	0.1	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	67,747.9	880.4	0.9	68,627.4	879.5	7,077.3	11,659.5	1,990.1	22,895.9	0.0	0.0	1,990.1	22,895.9	70,617.5	91,523.3		
..... Conventional Hydroelectric	Utility Scale Facilities	79,950.5	4.1	0.0	79,954.6	4.1	44.9	44.8	9.7	89.5	0.0	2.6	9.7	86.9	79,964.3	80,041.5		
..... Wood/Wood Waste Biomass	Utility Scale Facilities	7,927.4	2.0	0.0	7,929.4	2.0	6.2	-3.5	0.0	26.8	0.0	8.2	0.0	18.6	7,929.4	7,948.0		
..... Landfill Gas	Utility Scale Facilities	1,748.1	0.0	3.2	1,744.9	-3.2	-14.2	-27.0	0.9	5.5	0.0	33.6	0.9	-28.1	1,745.8	1,716.8		
..... Municipal Solid Waste	Utility Scale Facilities	2,058.3	0.0	0.0	2,058.3	0.0	-58.5	-58.5	0.0	0.0	0.0	0.0	0.0	0.0	2,058.3	2,058.3		
..... Other Waste Biomass	Utility Scale Facilities	595.3	0.0	0.0	595.3	0.0	2.0	0.6	0.0	38.8	0.0	0.0	0.0	38.8	595.3	634.1		
..... Biomass Sources Subtotal	Utility Scale Facilities	12,329.1	2.0	3.2	12,327.9	-1.2	-64.5	-88.4	0.9	71.1	0.0	41.8	0.9	29.3	12,328.8	12,357.2		
..... 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	300,833.8	1,167.4	4.1	301,997.1	1,163.3	12,794.8	21,882.0	2,674.2	30,344.7	0.0	141.9	2,674.2	30,202.8	304,671.3	332,199.9		
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	284,586.5	0.0	0.0	284,586.5	0.0	4,539.0	4,575.5	1,126.4	5,781.3	0.0	85.5	1,126.4	5,695.8	285,712.9	290,282.3		
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	132,860.9	85.4	0.0	132,946.3	85.4	539.9	2,169.8	35.2	1,291.3	0.0	595.5	35.2	695.8	132,981.5	133,642.1		
..... Natural Gas Steam Turbine	Utility Scale Facilities	73,956.6	5.8	0.0	73,962.4	5.8	178.8	183.0	0.0	13.0	0.0	1,977.0	0.0	-1,964.0	73,962.4	71,998.4		
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	5,332.0	0.9	0.0	5,332.9	0.9	105.2	108.7	1.8	154.9	0.0	0.0	1.8	154.9	5,334.7	5,487.8		
..... Natural Gas with Compressed Air Storage	Utility Scale Facilities	110.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.0	110.0		
..... Other Natural Gas	Utility Scale Facilities	310.0	0.0	0.0	310.0	0.0	15.0	23.4	7.4	37.2	0.0	0.0	7.4	37.2	317.4	347.2		
..... Natural Gas Subtotal	Utility Scale Facilities	497,156.0	92.1	0.0	497,248.1	92.1	5,377.9	7,060.4	1,170.8	7,277.7	0.0	2,658.0	1,170.8	4,619.7	498,418.9	501,867.8		
..... Conventional Steam Coal	Utility Scale Facilities	200,567.8	0.0	5.0	200,562.8	-5.0	-8,506.9	-9,958.3	0.0	0.0	0.0	9,804.7	0.0	-9,804.7	200,562.8	190,758.1		
..... 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	201,323.8	0.0	5.0	201,318.8	-5.0	-8,506.9	-9,958.3	0.0	0.0	0.0	9,804.7	0.0	-9,804.7	201,318.8	191,514.1		
..... 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	25,715.7	10.8	18.0	25,708.5	-7.2	-1,109.0	-1,133.9	6.8	9.3	30.1	249.2	-23.3	-239.9	25,685.2	25,468.6		
..... Other Gases	Utility Scale Facilities	1,888.0	0.0	0.0	1,888.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	-5.3	1,888.0	1,882.7		
... Fossil Fuels Subtotal	Utility Scale Facilities	727,471.5	102.9	23.0	727,551.4	79.9	-4,238.8	-4,031.8	1,177.6	7,287.0	30.1	12,717.2	1,147.5	-5,430.2	728,698.9	722,121.2		
..... Hydroelectric Pumped Storage	Utility Scale Facilities	23,041.2	0.0	0.0	23,041.2	0.0	33.5	33.5	0.0	237.6	0.0	0.0	0.0	237.6	23,041.2	23,278.8		
..... 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	7,114.8	680.0	0.0	7,794.8	680.0	3,048.1	4,029.2	296.1	7,915.7	0.0	0.0	296.1	7,915.7	8,090.9	15,710.5		
... Energy Storage Subtotal	Utility Scale Facilities	30,203.0	680.0	0.0	30,883.0	680.0	3,081.6	4,062.7	296.1	8,153.3	0.0	0.0	296.1	8,153.3	31,179.1	39,036.3		
... Nuclear	Utility Scale Facilities	94,771.6	0.0	0.0	94,771.6	0.0	-774.8	-774.8	0.0	1,114.0	0.0	0.0	0.0	1,114.0	94,771.6	95,885.6		
... All Other	Utility Scale Facilities	1,517.6	0.0	0.0	1,517.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,517.6	1,517.6		
TOTAL	UTILITY SCALE FACILITIES	1,154,797.5	1,950.3	27.1	1,156,720.7	1,923.2	10,863.6	21,138.1	4,147.9	46,899.0	30.1	12,859.1	4,117.8	34,039.9	1,160,838.5	1,190,760.6		
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	38,091.7			38,599.6	507.9	5,518.7	6,671.6										
..... Estimated Total Solar Photovoltaic	All Facilities	104,359.6			107,227.0	1,387.4	12,596.0	18,331.0										
... Estimated Total Solar	All Facilities	105,839.6			107,227.0	1,387.4	12,596.0	18,331.0										

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 - October 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	61,023.1	33,540.2	94,563.3
February	61,332.3	34,138.5	95,470.8
March	62,269.9	34,699.9	96,969.8
April	62,700.5	35,198.9	97,899.4
May	63,357.8	35,708.7	99,066.5
June	64,341.5	36,347.7	100,689.2
July	64,922.3	36,833.5	101,755.8
August	65,612.4	37,429.7	103,042.1
Sept	66,267.9	38,091.7	104,359.6
October	67,147.4	38,599.6	105,747.0

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 - October 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	21,433.7	9,886.0	2,220.5	33,540.2
February	21,871.9	10,042.6	2,224.0	34,138.5
March	22,292.7	10,175.1	2,232.1	34,699.9
April	22,715.4	10,244.4	2,239.0	35,198.9
May	23,103.1	10,358.1	2,247.6	35,708.7
June	23,588.3	10,502.1	2,257.3	36,347.7
July	23,979.7	10,588.6	2,265.2	36,833.5
August	24,511.5	10,637.0	2,281.2	37,429.7
Sept	24,993.4	10,807.4	2,291.0	38,091.7
October	25,475.7	10,809.0	2,315.0	38,599.6

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, October 2022 and 2021 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	6,899.7	6,651.5	23,039.7	23,029.2	1,830.4	1,830.4	297.7	206.5	3,366.4	3,345.4	22.0	22.0	35,455.9	35,085.0
Connecticut	512.5	516.6	7,422.3	7,412.3	29.4	29.4	1.6	1.6	2,118.3	2,097.3	0.0	0.0	10,084.1	10,057.2
Maine	2,483.6	2,391.9	2,532.0	2,525.5	0.0	0.0	46.3	46.3	0.0	0.0	22.0	22.0	5,083.9	4,985.7
Massachusetts	1,895.5	1,804.1	8,908.9	8,914.9	1,801.0	1,801.0	235.9	147.7	0.0	0.0	0.0	0.0	12,841.3	12,667.7
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	363.7	303.8	1,780.1	1,780.1	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	2,146.8	2,083.9
Vermont	700.3	691.0	126.0	126.0	0.0	0.0	10.9	10.9	0.0	0.0	0.0	0.0	837.2	827.9
Middle Atlantic	12,581.2	12,247.1	73,474.0	75,308.1	3,348.8	3,348.8	235.4	182.1	15,891.2	15,891.2	11.2	11.2	105,541.8	106,988.5
New Jersey	1,269.6	1,221.7	11,776.7	12,302.8	420.0	420.0	42.7	42.7	3,456.7	3,456.7	11.2	11.2	16,976.9	17,455.1
New York	8,317.5	8,028.1	26,426.3	26,909.1	1,406.8	1,406.8	138.1	84.8	3,341.3	3,341.3	0.0	0.0	39,630.0	39,770.1
Pennsylvania	2,994.1	2,997.3	35,271.0	36,096.2	1,522.0	1,522.0	54.6	54.6	9,093.2	9,093.2	0.0	0.0	48,934.9	49,763.3
East North Central	20,672.0	18,457.6	106,243.2	106,858.6	2,177.3	2,143.8	165.2	199.8	18,227.1	19,022.9	166.0	166.0	147,650.8	146,848.7
Illinois	8,055.8	6,961.9	24,970.6	26,156.6	0.0	0.0	96.1	135.7	11,582.4	11,582.4	78.0	78.0	44,782.9	44,914.6
Indiana	4,219.7	3,689.9	22,541.7	22,531.6	0.0	0.0	36.0	36.0	0.0	0.0	88.0	88.0	26,885.4	26,345.5
Michigan	4,477.8	4,174.6	22,087.8	19,611.7	2,177.3	2,143.8	1.3	1.3	3,318.0	4,113.8	0.0	0.0	32,062.2	30,045.2
Ohio	1,813.3	1,802.6	23,380.1	25,305.7	0.0	0.0	26.8	26.8	2,134.0	2,134.0	0.0	0.0	27,354.2	29,269.1
Wisconsin	2,105.4	1,828.6	13,263.0	13,253.0	0.0	0.0	5.0	0.0	1,192.7	1,192.7	0.0	0.0	16,566.1	16,274.3
West North Central	42,863.7	40,623.9	58,753.3	58,815.4	657.0	657.0	25.8	24.8	4,899.0	4,899.0	12.2	12.2	107,211.0	105,032.3
Iowa	12,697.6	11,942.4	9,694.3	9,683.6	0.0	0.0	3.9	3.9	0.0	0.0	0.0	0.0	22,395.8	21,629.9
Kansas	8,286.3	7,360.7	8,925.0	8,922.2	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	18,437.1	17,508.7
Minnesota	6,347.5	6,310.0	10,287.6	10,283.1	0.0	0.0	16.0	15.0	1,657.0	1,657.0	6.1	6.1	18,314.2	18,271.2
Missouri	2,774.2	2,760.5	17,137.0	17,168.0	657.0	657.0	2.2	2.2	1,247.0	1,247.0	0.0	0.0	21,817.4	21,834.7
Nebraska	3,540.0	3,032.2	6,199.8	6,199.8	0.0	0.0	2.9	2.9	770.0	770.0	0.0	0.0	10,512.7	10,004.9
North Dakota	4,846.5	4,846.5	4,546.6	4,650.9	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	9,398.4	9,502.7
South Dakota	4,371.6	4,371.6	1,963.0	1,907.8	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	6,335.4	6,280.2
South Atlantic	31,816.1	28,508.2	157,016.9	157,143.2	8,100.4	8,100.4	703.0	109.3	24,752.8	24,752.8	506.9	506.9	222,896.1	219,120.8
Delaware	54.2	54.2	3,218.4	3,218.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,272.6	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	6,983.1	5,926.8	55,138.0	52,703.8	0.0	0.0	528.3	29.0	3,666.0	3,666.0	312.9	312.9	66,628.3	62,638.5
Georgia	6,271.1	5,322.0	25,280.7	26,140.7	1,897.4	1,897.4	82.2	2.2	4,061.0	4,061.0	44.0	44.0	37,636.4	37,467.3
Maryland	1,411.6	1,310.3	8,723.8	9,971.7	0.0	0.0	5.0	5.0	1,707.8	1,707.8	0.0	0.0	11,848.2	12,994.8
North Carolina	8,598.3	8,159.7	21,318.2	21,737.2	86.0	86.0	36.0	21.6	5,149.6	5,149.6	54.0	54.0	35,242.1	35,208.1
South Carolina	3,027.5	2,983.9	11,751.5	11,787.5	2,876.0	2,876.0	4.0	4.0	6,600.4	6,600.4	0.0	0.0	24,259.4	24,251.8
Virginia	4,241.8	3,639.0	17,791.7	17,789.3	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	96.0	96.0	28,938.5	28,333.3
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	9,288.1	9,026.5	60,468.4	60,482.4	1,616.3	1,616.3	1.0	1.0	11,376.4	11,376.4	1.4	1.4	82,751.6	82,504.0
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	1,239.7	1,239.3	16,343.5	16,357.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17,583.2	17,596.8
Mississippi	540.2	439.0	12,762.5	12,762.5	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,705.1	14,603.9
Tennessee	3,176.0	3,016.0	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	21,552.3	21,392.3
West South Central	64,220.8	56,372.3	140,830.7	141,249.6	288.0	288.0	1,510.7	819.4	8,930.7	8,930.7	549.1	549.1	216,330.0	208,209.1
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	22,348.8	0.0	0.0	0.5	0.5	2,132.9	2,132.9	330.1	330.1	24,916.1	25,500.9
Oklahoma	12,673.7	11,112.8	18,184.7	18,184.7	258.0	258.0	10.0	10.0	0.0	0.0	0.0	0.0	31,126.4	29,565.5
Texas	48,992.0	42,854.4	89,640.1	89,460.1	0.0	0.0	1,478.2	796.9	4,980.0	4,980.0	219.0	219.0	145,309.3	138,310.4
Mountain	37,400.3	34,556.3	57,887.1	58,787.6	797.1	797.1	310.0	144.0	3,937.0	3,937.0	123.7	123.7	100,455.2	98,345.7
Arizona	6,263.8	6,148.7	17,376.4	17,167.0	216.3	216.3	97.0	97.0	3,937.0	3,937.0	0.0	0.0	27,890.5	27,566.0
Colorado	6,934.0	6,307.2	10,656.0	10,925.0	580.8	580.8	10.2	10.2	0.0	0.0	9.1	9.1	18,190.1	17,832.3
Idaho	3,934.9	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	5,078.0	5,075.6
Montana	3,984.2	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	6,096.2	6,066.8
Nevada	5,258.9	4,749.2	7,821.6	7,821.6	0.0	0.0	200.0	35.0	0.0	0.0	6.5	6.5	13,287.0	12,612.3
New Mexico	5,348.3	3,949.3	4,855.1	5,702.1	0.0	0.0	2.8	1.8	0.0	0.0	0.7	0.7	10,206.9	9,653.9
Utah	2,270.2	2,108.6	7,304.3	7,289.3	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	9,614.7	9,438.1
Wyoming	3,406.0	3,406.0	6,673.4	6,682.3	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	10,091.8	10,100.7
Pacific Contiguous	74,923.2	72,381.8	45,643.1	45,537.9	4,225.9	4,225.9	4,384.4	2,004.5	3,391.0	3,391.0	125.1	125.1	132,692.7	127,666.2
California	36,263.2	34,149.6	37,830.5	37,710.5	3,911.9	3,911.9	4,343.4	1,993.5	2,240.0	2,240.0	125.1	125.1	84,714.1	80,130.6
Oregon	13,412.9	13,147.4	3,755.0	3,764.8	0.0	0.0	35.0	5.0	0.0	0.0	0.0	0.0	17,202.9	16,917.2
Washington	25,247.1	25,084.8	4,057.6	4,062.6	314.0	314.0	6.0	6.0	1,151.0	1,151.0	0.0	0.0	30,775.7	30,618.4
Pacific Noncontiguous	1,332.0	1,289.9	4,195.0	4,371.2	0.0	0.0	208.6	121.2	0.0	0.0	0.0	0.0	5,735.6	5,782.3
Alaska	542.4	542.4	2,188.5	2,184.7	0.0	0.0	93.7	47.2	0.0	0.0	0.0	0.0	2,824.6	2,774.3
Hawaii	789.6	747.5	2,006.5	2,186.5	0.0	0.0	114.9	74.0	0.0	0.0	0.0	0.0	2,911.0	3,008.0
U.S. Total	301,997.1	280,115.1	727,551.4	731,583.2	23,041.2	23,007.7	7,841.8	3,812.6	94,771.6	95,546.4	1,517.6	1,517.6	1,156,720.7	1,135,582.6

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, October 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	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
New England	1,559.6	1,539.8	2,128.1	1,841.2	0.0	0.0	1,950.9	1,950.9	1,261.1	1,319.6	0.0	0.0	6,899.7	6,651.5	3,738.2	3,248.0	5,866.3	5,089.2	5,866.3	5,089.2
Connecticut	5.0	5.0	247.5	193.1	0.0	0.0	119.4	119.4	140.6	199.1	0.0	0.0	512.5	516.6	777.0	691.8	1,024.5	884.9	1,024.5	884.9
Maine	1,009.5	994.2	259.7	183.3	0.0	0.0	725.8	725.8	488.6	488.6	0.0	0.0	2,483.6	2,391.9	272.7	109.2	532.4	292.5	532.4	292.5
Massachusetts	105.7	105.7	1,237.9	1,146.5	0.0	0.0	267.7	267.7	284.2	284.2	0.0	0.0	1,895.5	1,804.1	1,993.4	1,893.1	3,231.3	3,039.6	3,231.3	3,039.6
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	175.3	142.4	177.7	144.8	177.7	144.8
Rhode Island	77.3	72.8	243.6	188.2	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	363.7	303.8	360.2	266.7	603.8	454.9	603.8	454.9
Vermont	150.2	150.2	137.0	127.7	0.0	0.0	331.3	331.3	81.8	81.8	0.0	0.0	700.3	691.0	159.6	144.8	296.6	272.5	296.6	272.5
Middle Atlantic	3,657.4	3,657.4	2,315.6	1,975.9	0.0	0.0	5,507.7	5,507.7	1,100.5	1,106.1	0.0	0.0	12,581.2	12,247.1	5,476.4	4,558.3	7,792.0	6,534.2	7,792.0	6,534.2
New Jersey	7.6	7.6	1,055.9	1,008.0	0.0	0.0	12.3	12.3	193.8	193.8	0.0	0.0	1,269.6	1,221.7	2,294.9	1,985.0	3,350.8	2,993.0	3,350.8	2,993.0
New York	2,189.8	2,189.8	1,105.0	813.2	0.0	0.0	4,565.8	4,565.8	456.9	459.3	0.0	0.0	8,317.5	8,028.1	2,561.7	2,077.5	3,666.7	2,890.7	3,666.7	2,890.7
Pennsylvania	1,460.0	1,460.0	154.7	154.7	0.0	0.0	929.6	929.6	449.8	453.0	0.0	0.0	2,994.1	2,997.3	619.8	495.8	774.5	650.5	774.5	650.5
East North Central	15,549.9	14,566.4	3,115.4	1,882.7	0.0	0.0	879.4	877.0	1,127.3	1,131.5	0.0	0.0	20,672.0	18,457.6	1,666.7	1,369.1	4,782.1	3,251.8	4,782.1	3,251.8
Illinois	7,034.6	6,426.3	915.1	429.5	0.0	0.0	32.9	32.9	73.2	73.2	0.0	0.0	8,055.8	6,961.9	862.2	714.6	1,777.3	1,144.1	1,777.3	1,144.1
Indiana	3,453.1	3,150.7	622.9	398.0	0.0	0.0	71.6	69.1	72.1	72.1	0.0	0.0	4,219.7	3,689.9	202.9	157.5	825.8	555.5	825.8	555.5
Michigan	3,240.6	3,167.8	473.7	243.3	0.0	0.0	263.5	263.5	500.0	500.0	0.0	0.0	4,477.8	4,174.6	184.8	148.2	658.5	391.5	658.5	391.5
Ohio	1,097.3	1,097.3	479.8	466.3	0.0	0.0	101.9	101.9	134.3	137.1	0.0	0.0	1,813.3	1,802.6	257.9	213.6	737.7	679.9	737.7	679.9
Wisconsin	724.3	724.3	623.9	345.6	0.0	0.0	409.5	409.6	347.7	349.1	0.0	0.0	2,105.4	1,828.6	158.9	135.2	782.8	480.8	782.8	480.8
West North Central	37,560.1	35,527.7	1,545.0	1,334.4	0.0	0.0	3,363.1	3,363.1	395.5	398.7	0.0	0.0	42,863.7	40,623.9	857.2	649.3	2,402.2	1,983.7	2,402.2	1,983.7
Iowa	12,195.0	11,598.4	276.6	118.0	0.0	0.0	205.4	205.4	20.6	20.6	0.0	0.0	12,697.6	11,942.4	215.0	171.3	491.6	289.3	491.6	289.3
Kansas	8,238.1	7,314.5	32.2	30.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	8,286.3	7,360.7	57.4	41.5	89.6	71.7	89.6	71.7
Minnesota	4,698.5	4,694.1	1,113.4	1,077.1	0.0	0.0	214.5	214.5	321.1	324.3	0.0	0.0	6,347.5	6,310.0	183.3	133.7	1,296.7	1,210.8	1,296.7	1,210.8
Missouri	2,121.9	2,121.9	89.7	76.0	0.0	0.0	548.5	548.5	14.1	14.1	0.0	0.0	2,774.2	2,760.5	374.4	284.2	464.1	360.2	464.1	360.2
Nebraska	3,212.7	2,704.9	32.1	32.1	0.0	0.0	279.7	279.7	15.5	15.5	0.0	0.0	3,540.0	3,032.2	24.5	16.5	56.6	48.6	56.6	48.6
North Dakota	4,326.7	4,326.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	4,846.5	4,846.5	1.1	1.0	1.1	1.0	1.1	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	1.5	1.2	2.5	2.2	2.5	2.2
South Atlantic	1,268.0	1,153.0	19,279.0	16,068.3	0.0	0.0	7,142.9	7,142.9	4,126.2	4,144.0	0.0	0.0	31,816.1	28,508.2	4,217.1	3,198.4	23,496.1	19,266.7	23,496.1	19,266.7
Delaware	2.0	2.0	38.0	38.0	0.0	0.0	0.0	0.0	14.2	14.2	0.0	0.0	54.2	54.2	113.0	95.6	151.0	133.6	151.0	133.6
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	114.8	97.7	131.3	113.0	131.3	113.0
Florida	0.0	0.0	5,786.1	4,728.3	0.0	0.0	43.5	43.5	1,153.5	1,155.0	0.0	0.0	6,983.1	5,926.8	1,749.1	1,083.6	7,535.2	5,811.9	7,535.2	5,811.9
Georgia	0.0	0.0	3,274.7	2,327.5	0.0	0.0	1,985.0	1,985.0	1,011.4	1,009.5	0.0	0.0	6,271.1	5,322.0	275.8	224.1	3,550.5	2,551.6	3,550.5	2,551.6
Maryland	190.0	190.0	492.0	391.7	0.0	0.0	590.0	590.0	139.6	138.6	0.0	0.0	1,411.6	1,310.3	972.3	878.3	1,464.3	1,270.0	1,464.3	1,270.0
North Carolina	208.0	208.0	5,948.1	5,491.7	0.0	0.0	2,005.7	2,005.7	436.5	454.3	0.0	0.0	8,598.3	8,159.7	388.9	289.1	6,337.0	5,780.8	6,337.0	5,780.8
South Carolina	0.0	0.0	1,161.9	1,118.3	0.0	0.0	1,311.9	1,311.9	553.7	553.7	0.0	0.0	3,027.5	2,983.9	333.4	295.2	1,495.3	1,413.5	1,495.3	1,413.5
Virginia	12.0	12.0	2,561.7	1,957.5	0.0	0.0	866.0	866.0	802.1	803.5	0.0	0.0	4,241.8	3,639.0	245.2	218.5	2,806.9	2,176.0	2,806.9	2,176.0
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	24.7	16.2	24.7	16.2	24.7	16.2
East South Central	29.1	29.1	1,110.3	848.7	0.0	0.0	7,037.8	7,037.8	1,110.9	1,110.9	0.0	0.0	9,288.1	9,026.5	159.5	124.0	1,269.8	972.7	1,269.8	972.7
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	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	27.8	27.4	0.0	0.0	1,137.4	1,137.4	74.5	74.5	0.0	0.0	1,239.7	1,239.3	73.6	48.3	101.4	75.7	101.4	75.7
Mississippi	0.0	0.0	319.3	218.1	0.0	0.0	0.0	0.0	220.9	220.9	0.0	0.0	540.2	439.0	14.9	10.1	334.2	228.2	334.2	228.2
Tennessee	29.1	29.1	342.1	182.1	0.0	0.0	2,608.6	2,608.6	196.2	196.2	0.0	0.0	3,176.0	3,016.0	56.3	54.0	398.4	236.1	398.4	236.1
West South Central	49,134.5	43,930.5	10,971.6	8,337.1	0.0	0.0	3,014.5	3,004.5	1,100.2	1,100.2	0.0	0.0	64,220.8	56,372.3	2,518.8	1,734.2	13,490.4	10,071.3	13,490.4	10,071.3
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	107.2	482.2	330.9	482.2	330.9	482.2
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	166.5	157.0	291.0	231.5	291.0	231.5
Oklahoma	11,714.4	10,153.5	42.5	42.5	0.0	0.0	840.6	840.6	76.2	76.2	0.0	0.0	12,673.7	11,112.8	56.4	32.9	98.9	75.4	98.9	75.4
Texas	37,420.1	33,777.0	10,480.9	7,996.4	0.0	0.0	716.1	706.1	374.9	374.9	0.0	0.0	48,992.0	42,854.4	2,137.3	1,437.1	12,618.2	9,433.5	12,618.2	9,433.5
Mountain	15,795.5	14,147.1	9,645.6	8,517.9	474.2	474.1	10,589.5	10,557.4	172.3	175.5	723.2	684.3	37,400.3	34,556.3	4,662.0	3,968.7	14,307.6	12,486.6	14,781.8	12,960.7
Arizona	617.3	617.3	2,602.1	2,487.0	295.6	295.6	2,720.9	2,720.9	27.9	27.9	0.0	0.0	6,263.8	6,148.7	2,153.1	1,893.9	4,755.2	4,380.9	5,050.8	4,676.5
Colorado	5,136.2	4,786.2	1,079.6	801.3	0.0	0.0	689.5	691.0	28.7	28.7	0.0	0.0	6,934.0	6,307.2	833.4	702.1	1,913.0	1,503.4	1,913.0	1,503.4
Idaho	970.4	970.4	242.0	242.0	0.0	0.0	2,629.4	2,623.8	83.1	86.3	10.0	10.0	3,934.9	3,932.5	117.3	81.6	359.3	323.6	359.3	323.6
Montana	1,114.1	1,112.7	17.0	17.0	0.0	0.0	2,848.5	2,820.5	4.6	4.6	0.0	0.0	3,984.2	3,954.8	37.3	28.9	54.3	45.9	54.3	45.9
Nevada	150.0	150.0	3,235.0	2,764.2	178.5	178.5	1,051.7	1,051.7	9.8	9.8	633.9	595.0	5,258.9	4,749.2	748.7	620.1	3,983.7	3,384.3	4,162.2	3,562.8
New Mexico	4,410.9	3,113.9	840.7	738.7	0.0	0.0	82.7	82.7	5.4	5.4	8.6	8.6	5,348.3	3,949.3	307.1	253.1	1,147.8	991.8	1,147.8	991.8
Utah	389.7	389.7	1,537.2	1,375.7	0.1	0.0	259.7	259.7	12.8	12.8	70.7	70.7	2,270.2	2,108.6	450.3	377.6	1,987.5	1,753.3	1,987.6	1,753.3
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	14.9	11.4	106.9	103.4	106.9	103.4
Pacific Contiguous	13,588.3	13,381.2	16,708.9	14,396.0	1,005.8	1,005.8	39,960.8	39,960.5	1,773.0	1,768.9	1,866.4	1,869.4	74,923.2	72,381.8	14,513.8	12,315.5	31,222.7	26,711.5		

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, October 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	
	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021	October 2022	October 2021
	New England	14,357.3	14,350.8	1,765.6	1,765.6	1,582.7	1,572.7	533.9	533.9	0.0	0.0	4,800.2	4,806.2	0.0	0.0	23,039.7
Connecticut	3,932.6	3,932.6	579.8	579.8	970.0	960.0	0.0	0.0	0.0	0.0	1,939.9	1,939.9	0.0	0.0	7,422.3	7,412.3
Maine	1,282.8	1,276.3	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	2,525.5
Massachusetts	6,168.2	6,168.2	857.6	857.6	94.6	94.6	0.0	0.0	0.0	0.0	1,788.5	1,794.5	0.0	0.0	8,908.9	8,914.9
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	37,049.0	37,332.0	7,989.6	8,077.2	13,684.3	13,667.1	9,678.6	10,907.6	11.6	11.6	4,946.0	5,197.7	114.9	114.9	73,474.0	75,308.1
New Jersey	8,355.4	8,588.4	2,964.9	3,039.0	75.7	75.7	244.0	463.0	11.6	11.6	96.1	96.1	29.0	29.0	11,776.7	12,302.8
New York	9,896.9	9,946.9	3,089.5	3,089.5	9,887.9	9,874.5	0.0	445.0	0.0	0.0	3,552.0	3,553.2	0.0	0.0	26,426.3	26,909.1
Pennsylvania	18,796.7	18,796.7	1,935.2	1,948.7	3,720.7	3,716.9	9,434.6	9,999.6	0.0	0.0	1,297.9	1,548.4	85.9	85.9	35,271.0	36,096.2
East North Central	27,781.9	24,158.8	26,388.2	26,541.7	5,725.8	5,697.4	42,641.8	46,712.1	250.6	250.6	2,370.0	2,413.1	1,084.9	1,084.9	106,243.2	106,858.6
Illinois	4,761.8	3,561.8	10,273.0	10,512.0	1,724.6	1,724.6	7,400.8	9,547.8	0.0	0.0	773.9	773.9	36.5	36.5	24,970.6	26,156.6
Indiana	3,875.0	3,875.0	3,365.8	3,338.3	755.6	755.4	13,830.2	13,847.8	0.0	0.0	95.8	95.8	619.3	619.3	22,541.7	22,531.6
Michigan	6,865.7	4,442.6	3,894.7	3,848.4	2,558.7	2,530.5	8,031.7	8,034.9	47.2	47.2	439.8	458.1	250.0	250.0	22,087.8	19,611.7
Ohio	8,765.2	8,765.2	5,607.9	5,596.2	103.0	103.0	8,097.5	10,011.5	145.0	145.0	482.4	505.7	179.1	179.1	23,380.1	25,305.7
Wisconsin	3,514.2	3,514.2	3,246.8	3,246.8	583.9	583.9	5,281.6	5,270.1	58.4	58.4	578.1	579.6	0.0	0.0	13,263.0	13,253.0
West North Central	7,063.1	7,064.1	11,725.5	11,725.5	3,601.9	3,540.9	32,274.7	32,402.9	32.0	32.0	4,047.7	4,041.6	8.4	8.4	58,753.3	58,815.4
Iowa	1,732.7	1,732.7	1,193.0	1,193.0	590.1	584.3	5,273.6	5,267.5	32.0	32.0	872.9	874.1	0.0	0.0	9,694.3	9,683.6
Kansas	266.0	266.0	2,197.1	2,197.1	1,338.7	1,338.7	4,524.6	4,524.6	0.0	0.0	598.6	595.8	0.0	0.0	8,925.0	8,922.2
Minnesota	2,532.9	2,532.9	2,551.4	2,551.4	419.0	419.0	4,009.1	4,009.1	0.0	0.0	775.2	770.7	0.0	0.0	10,287.6	10,283.1
Missouri	1,898.0	1,899.0	3,344.9	3,344.9	568.5	568.5	10,212.2	10,242.2	0.0	0.0	1,113.4	1,113.4	0.0	0.0	17,137.0	17,168.0
Nebraska	338.5	338.5	1,077.6	1,077.6	507.4	507.4	3,867.0	3,867.0	0.0	0.0	409.3	409.3	0.0	0.0	6,199.8	6,199.8
North Dakota	0.0	0.0	454.0	454.0	106.8	106.8	3,914.2	4,018.5	0.0	0.0	63.2	63.2	8.4	8.4	4,546.6	4,650.9
South Dakota	295.0	295.0	907.5	907.5	71.4	16.2	474.0	474.0	0.0	0.0	215.1	215.1	0.0	0.0	1,963.0	1,907.8
South Atlantic	63,098.8	61,922.8	33,374.9	31,757.6	11,174.0	10,381.6	43,609.7	46,478.7	142.8	142.8	5,481.7	6,324.7	135.0	135.0	157,016.9	157,143.2
Delaware	1,504.0	1,504.0	316.4	316.4	738.9	738.9	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,218.4	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	33,150.3	31,987.3	9,555.6	7,899.4	5,936.9	5,936.9	4,776.0	5,161.0	59.0	59.0	1,660.2	1,660.2	0.0	0.0	55,138.0	52,703.8
Georgia	8,076.7	8,076.7	7,800.1	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	25,280.7	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	1,758.0	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	9,677.7	0.0	0.0	502.0	502.0	0.0	0.0	21,318.2	21,737.2
South Carolina	3,209.0	3,196.0	2,584.9	2,624.9	950.0	950.0	4,789.0	4,789.0	0.0	0.0	218.6	227.6	0.0	0.0	11,751.5	11,787.5
Virginia	8,878.8	8,878.8	4,245.3	4,245.3	1,372.1	579.7	2,536.0	2,536.0	0.0	0.0	759.5	1,549.5	0.0	0.0	17,791.7	17,789.3
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	21,868.4	21,868.4	12,680.5	12,694.5	4,393.7	4,393.7	21,415.3	21,415.3	0.0	0.0	106.7	106.7	3.8	3.8	60,468.4	60,482.4
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	4,919.6	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	16,357.5
Mississippi	7,855.0	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	12,762.5	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	63,905.2	63,824.3	16,745.5	16,218.5	30,018.3	30,410.3	28,631.0	29,265.8	879.0	879.0	312.4	312.4	339.3	339.3	140,830.7	141,249.6
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	2,749.1	815.2	815.2	49.7	49.7	159.5	159.5	21,714.0	22,348.8
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	74.4	74.4	0.0	0.0	18,184.7	18,184.7
Texas	42,307.1	42,262.1	11,420.7	10,893.7	17,347.8	17,739.8	18,141.6	18,141.6	63.8	63.8	179.3	179.3	179.8	179.8	89,640.1	89,460.1
Mountain	22,588.8	22,615.8	9,257.2	9,086.8	3,873.7	4,070.6	21,637.9	22,484.9	52.0	52.0	469.7	469.7	7.8	7.8	57,887.1	58,787.6
Arizona	9,992.9	9,958.9	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	17,167.0
Colorado	3,193.5	3,254.5	2,538.0	2,538.0	642.0	850.0	4,129.0	4,129.0	0.0	0.0	150.5	150.5	3.0	3.0	10,656.0	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	330.9	315.9	4,581.0	4,581.0	0.0	0.0	27.8	27.8	0.0	0.0	7,304.3	7,289.3
Wyoming	94.0	94.0	247.3	252.3	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	6,682.3
Pacific Contiguous	26,499.4	26,499.4	12,298.2	12,188.0	5,483.5	5,488.5	727.0	727.0	20.0	20.0	421.1	421.1	193.9	193.9	45,643.1	45,537.9
California	20,477.6	20,477.6	11,455.0	11,335.0	5,227.7	5,227.7	57.0	57.0	20.0	20.0	399.3	399.3	193.9	193.9	37,830.5	37,710.5
Oregon	3,395.2	3,395.2	124.0	133.8	229.2	229.2	0.0	0.0	0.0	0.0	6.6	6.6	0.0	0.0	3,755.0	3,764.8
Washington	2,626.6	2,626.6	719.2	719.2	26.6	31.6	670.0	670.0	0.0	0.0	15.2	15.2	0.0	0.0	4,057.6	4,062.6
Pacific Noncontiguous	374.6	374.6	721.1	721.1	177.4	177.4	168.9	348.9	0.0	0.0	2,753.0	2,749.2	0.0	0.0	4,195.0	4,371.2
Alaska	374.6	374.6	721.1	721.1	177.4	177.4	168.9	168.9	0.0	0.0	74					

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	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	202.7	Onshore Wind Turbine	WND	WT
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	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
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	61227	Nautilus Solar Solutions	IPP	NSE Camber Solar PS13 LLC (CSG)	CO	64356	SC	2.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	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	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	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	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	Hermesdorf 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
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	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	64132	Novel David Solar LLC	IPP	Novel David Solar LLC CSG	MN	64486	DAVD	1.0	Solar Photovoltaic	SUN	PV
2022	3	63590	Novel Martens Solar LLC	IPP	Novel Martens Solar LLC(CSG)	MN	63987	MRTNS	1.0	Solar Photovoltaic	SUN	PV
2022	3	64413	Pretzel Solar, LLC	IPP	Pretzel CSG	IL	64971	PRETZ	2.0	Solar Photovoltaic	SUN	PV
2022	3	64295	SPG IL Brush Creek Solar LLC	IPP	IL17021 Brush Creek I CSG	IL	64730	BCK17	2.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	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	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	60025	Greenbacker Renewable Energy Corporation	IPP	Robin NJ	NJ	65563	136	2.2	Solar Photovoltaic	SUN	PV
2022	4	64807	Herrema Dairy, LLC	Industrial	Herrema Dairy	IN	65494	HER1	0.8	Natural Gas Internal Combustion Engine	NG	IC
2022	4	49893	Invenergy 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	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
2022	4	14328	Pacific Gas & Electric Co.	Electric Utility	Elkhorn Battery Energy Storage System	CA	62564	ELKHO	182.5	Batteries	MWH	BA
2022	4	64933	SunPower Capital Services, LLC	IPP	DRPA Ashland Station Solar Project	NJ	66021	ASSA1	2.5	Solar Photovoltaic	SUN	PV
2022	4	64933	SunPower Capital Services, 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	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 1Community 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	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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	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	Invenergy 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	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	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	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	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	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	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	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	65671	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	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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	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	64128	Novel Handeland Solar LLC	IPP	Novel Handeland Solar LLC (CSG)	MN	64479	HNDLD	1.0	Solar Photovoltaic	SUN	PV
2022	6	64129	Novel Sunnyfield Farms Solar LLC	IPP	Novel Sunnyfield Farms Solar LLC CSG	MN	64483	SNYFD	1.0	Solar Photovoltaic	SUN	PV
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	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
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	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 LLC	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	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	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	Holiday Creek Solar	IA	64738	HCS	117.6	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	64134	Novel Denzer Solar LLC	IPP	Novel Denzer Solar LLC CSG	MN	64488	DNZR	1.0	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	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	Owlville Creek Solar 2, LLC	IPP	Owlville Creek Solar 2, LLC	NY	63340	20660	3.0	Batteries	MWH	BA
2022	7	63111	Owlville Creek Solar, LLC	IPP	Owlville Creek Solar, LLC	NY	63341	20660	3.0	Batteries	MWH	BA
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	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	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	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
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	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	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 Food Center Authority AD	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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	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	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	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	4.6	Solar Photovoltaic	SUN	PV
2022	9	64260	Nextera Energy Resources	IPP	Great Prairie Wind	TX	64665	GR01	358.0	Onshore Wind Turbine	WND	WT
2022	9	64260	Nextera Energy Resources	IPP	Great Prairie Wind 3	TX	64667	GP03	299.0	Onshore Wind Turbine	WND	WT
2022	9	63775	Novel Shelly Solar LLC	IPP	Novel Shelly Solar LLC (CSG)	MN	64154	SHLLY	1.0	Solar Photovoltaic	SUN	PV
2022	9	64188	Novel Stein Solar 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	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	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	ORIO1	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	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	CPALO	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 Cocksackie Solar LLC	IPP	Cocksackie 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	64260	Nextera Energy Resources	IPP	Great Prairie Wind 2	TX	64666	GP03	210.0	Onshore Wind Turbine	WND	WT
2022	10	64765	OYA Wayside Drive LLC	IPP	OYA Wayside Drive	NY	65434	NY003	5.0	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	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

NOTES:

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

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

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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	Al Turi	NY	10549	2	0.8	Landfill Gas	LFG	IC
2022	1	463	Ameresco LFG I Inc	IPP	Al Turi	NY	10549	3	0.8	Landfill Gas	LFG	IC
2022	1	463	Ameresco LFG I Inc	IPP	Al 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	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	18190	Mas Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU1	0.7	Landfill Gas	LFG	IC
2022	2	18190	Mas Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU2	0.7	Landfill Gas	LFG	IC
2022	2	18190	Mas Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU3	0.7	Landfill Gas	LFG	IC
2022	2	18190	Mas Suffolk RNG, LLC	IPP	Terreva Suffolk RNG, LLC	VA	54781	SU4	0.7	Landfill Gas	LFG	IC
2022	2	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	1	29.5	Conventional Steam Coal	LIG	ST
2022	3	10115	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	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	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	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	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	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	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	768.5	Nuclear	NUC	ST
2022	6	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO 1	7.8	Wood/Wood Waste Biomass	BLQ	ST
2022	6	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	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	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	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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2022

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	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	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	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	3A	0.8	Petroleum Liquids	DFO	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
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

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)
2022	11	61012	AES Distributed Energy	IPP	Antelope Expansion 1B	CA	62320	ANE1B	17.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	17.0
2022	11	61012	AES Distributed Energy	IPP	Letts Creek Solar, LLC	MI	64568	LETTS	15.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.0
2022	11	61012	AES Distributed Energy	IPP	Pullman Solar, LLC	MI	64581	PULMN	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2022	11	64532	ASA Clayton NY Solar I LLC	IPP	ASA Clayton NY Solar I LLC	NY	65161	CLA1	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2022	11	64529	ASA Gouverneur NY Solar I LLC	IPP	ASA Gouverneur NY Solar I LLC	NY	65157	GOV1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2022	11	62627	Alchemy Renewable Energy	IPP	BE Solar LLC	GA	65728	GABE	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2022	11	62627	Alchemy Renewable Energy	IPP	Rockmart	GA	65730	GARO	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2022	11	62627	Alchemy Renewable Energy	IPP	Statesboro Solar LLC	GA	65727	GAST	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2022	11	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	BESS	1.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.5
2022	11	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
2022	11	59474	BQ Energy LLC	IPP	West Valley East	NY	62738	WVE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	11	59474	BQ Energy LLC	IPP	West Valley West	NY	62737	WVW	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	11	65188	Ballantyne LLC	IPP	Andresen Solar	MN	66017	ANDR	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	11	65039	Bishopville Solar II, LLC	IPP	Bishopville Solar II, LLC	SC	65781	BSHP2	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2022	11	64459	Blythe Mesa Solar II, LLC	IPP	Blythe Mesa Solar II, LLC	CA	65053	BMSSE	112.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.0
2022	11	64459	Blythe Mesa Solar II, LLC	IPP	Blythe Mesa Solar II, LLC	CA	65053	IPBMS	223.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	223.6
2022	11	64564	Byrd Ranch Storage LLC	IPP	Byrd Ranch Storage	TX	65259	P1	50.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	50.0
2022	11	65189	Cascade Solar LLC	IPP	Skalbeck Solar	MN	66016	SKAL	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	11	57421	Chopin Wind, LLC	IPP	Schumann Wind Farm	OR	65737	SCH	8.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	8.0
2022	11	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
2022	11	6762	City of Fredonia - (KS)	Electric Utility	Fredonia	KS	65374	GEN1	1.5	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.5
2022	11	6762	City of Fredonia - (KS)	Electric Utility	Fredonia	KS	65374	GEN2	1.5	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.5
2022	11	65164	CleanCapital Holdings	IPP	KDC Solar TC Blandair Park LLC	MD	65984	TCBP	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2022	11	65164	CleanCapital Holdings	IPP	KDC Solar TC George Howard LLC	MD	65983	TCGH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2022	11	64896	Clearwater Energy Resources LLC	IPP	Clearwater Wind I	MT	65577	CW1	365.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	365.5
2022	11	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
2022	11	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC1	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2022	11	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC2	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2022	11	57365	Consolidated Edison Solutions Inc	IPP	Mt Pleasant Community Center	NY	64442	MPES	0.7	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.7
2022	11	57365	Consolidated Edison Solutions Inc	IPP	Mt Pleasant Community Center	NY	64442	MPPV	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2022	11	64809	Doc Brown LLC	IPP	Danville BESS 1	VA	65499	9Y909	10.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.5
2022	11	5248	Dominion Energy Inc	Electric Utility	Sycamore Solar	VA	64136	SYSO	42.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	42.0
2022	11	62911	Drew Solar LLC	IPP	Drew Solar LLC	CA	63127	DS	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2022	11	6455	Duke Energy Florida, LLC	Electric Utility	Bay Trail Solar Power Plant	FL	64145	PV1	74.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.9
2022	11	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
2022	11	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
2022	11	65158	Elora LLC	IPP	Timmerman	MN	65974	TIMM	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2022	11	63653	Energix Nokesville, LLC	IPP	Energix Nokesville, LLC	VA	64012	ENX07	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2022	11	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
2022	11	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
2022	11	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
2022	11	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
2022	11	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
2022	11	62856	Forefront Power, LLC	IPP	IL - SMHEC - Moraine Valley	IL	64181	18017	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2022	11	62856	Forefront Power, LLC	IPP	UC Santa Cruz Solar	CA	63091	18027	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2022	11	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
2022	11	60025	Greenbacker Renewable Energy Corporation	IPP	ER Sand Hill	VT	65619	289	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2022	11	9234	Indiana Municipal Power Agency	Electric Utility	Bremen	IN	65086	BREM	6.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.8
2022	11	49893	Invenergy Services LLC	IPP	Calhoun Solar	MI	64856	65009	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2022	11	49893	Invenergy Services LLC	IPP	Samson Solar Energy III LLC	TX	63883	GEN1	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2022	11	49893	Invenergy Services LLC	IPP	Thunderhead Wind Energy LLC	NE	62956	GEN1	300.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	300.0
2022	11	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
2022	11	65147	Java Solar, LLC	IPP	Java Solar, LLC	CA	65965	JAVA	13.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.5
2022	11	61750	Jefferson Solar	IPP	Jefferson Solar	SC	62233	47	8.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.2
2022	11	63289	Key Capture Energy	IPP	TX23 Roughneck Storage	TX	65701	TX23	50.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	50.0
2022	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Black Bear Solar 1	AL	63765	ALBB1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2022	11	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
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	(U) Under construction, less than or equal to 50 percent complete	1.0
2022	11	56990	NJR Clean Energy Ventures Corporation	IPP	Maybrook Solar, LLC	NY	65337	MAYBK	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2022	11	61227	Nautilus Solar Solutions	IPP	Pivot Solar 14 LLC	CO	64650	SC	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2022	11	61227	Nautilus Solar Solutions	IPP	Pivot Solar 15 LLC	CO	64652	SC	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2022	11	61227	Nautilus Solar Solutions	IPP	Pivot Solar 2 LLC	CO	64651	SC	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2022	11	13683	North Carolina EI Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	BAT1	5.1	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.1
2022	11	13683	North Carolina EI Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	SOL1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	11	13683	North Carolina EI Member Corp	Electric Utility	Five Points BESS	NC	65250	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2022	11	13683	North Carolina EI Member Corp	Electric Utility	Queens Creek BESS	NC	65244	BAT1	2.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.5
2022	11	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU8	3.9	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	3.9
2022	11	65160	Norton Powerhouse 2	Industrial	Norton Powerhouse 2	MA	66018	GEN3	3.3	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	4.6
2022	11	64768	OYA Church Road A LLC	IPP	OYA Church Road	NY	65459	NY005	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2022	11	64767	OYA Main Street LLC	IPP	OYA Main Street	NY	65436	NY006	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	11	64766	OYA Pulaski LLC	IPP	OYA Pulaski	NY	65435	NY004	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2022	11	64095	RPCA Solar 3, LLC	IPP	Byron Highway Solar	CA	64471	BYHWY	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2022	11	64363	SR Turkey Creek, LLC	IPP	SR Turkey Creek, LLC	KY	64842	SRTC	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2022	11	63640	Safari Energy, LLC	IPP	Reidsville Renewables, Inc.	GA	65995	20052	3.0			PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2022	11	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
2022	11	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
2022	11	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
2022	11	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
2022	11	65214	Solar Star Prime 6, LLC	IPP	Amazon MDW7 Solar Project	IL	66022	AMDW7	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2022</														

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	11	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E1B	CA	65674	PV	154.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	154.4
2022	11	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S4	CA	65677	PV	41.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	41.2
2022	11	56773	Toyon Landfill Gas Conversion, LLC	IPP	Toyon Power Station	CA	54327	TOY7	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.1
2022	11	19664	University of Washington	Commercial	University of Washington Power Plant	WA	54809	DRUPS	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2022	11	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
2022	11	20856	Wisconsin Power & Light Co	Electric Utility	Wood County	WI	65011	PV1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2022	12	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
2022	12	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
2022	12	60496	Adapture Renewables, Inc.	IPP	North Stonington Solar Center, LLC	CT	62318	PAWCA	15.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.0
2022	12	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
2022	12	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
2022	12	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
2022	12	59496	Allete Clean Energy	IPP	Rock Aetna Power Partners	MN	65713	32005	20.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	20.0
2022	12	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
2022	12	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
2022	12	63803	Apex Solar LLC	IPP	Rattlesnake Solar	MT	64189	RSNAK	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2022	12	64655	Appaloosa Run Wind, LLC	IPP	Appaloosa Run Wind	TX	65335	WAPPA	171.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	171.8
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	1	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2022	12	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
2022	12	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
2022	12	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
2022	12	64285	BCD Project Holdings 1, LLC	IPP	CL-Viaduct LLC	PA	64709	GSF01	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2022	12	64424	Big Beau Solar, LLC	IPP	BigBeau Solar, LLC	CA	64993	BB1BA	40.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	40.0
2022	12	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
2022	12	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-2H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2022	12	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
2022	12	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
2022	12	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
2022	12	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	BATT	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2022	12	65012	Buffalo Ridge Wind, LLC	IPP	Buffalo Ridge Wind	MN	65761	3161	50.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	106.0
2022	12	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
2022	12	65190	Cannon River LLC	IPP	Platt Solar	MN	66015	PLAT	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	12	65002	Carnes Creek Solar, LLC	IPP	Carnes Creek Solar (CSG)	OR	65745	CAC22	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2022	12	65164	CleanCapital Holdings	IPP	KDC Solar TC Little Patuxent WWTP LLC	MD	65982	TCLP	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2022	12	65003	Cosper Creek Solar, LLC	IPP	Cosper Creek Solar (CSG)	OR	65746	CC22	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2022	12	64083	DG Central 1, LLC	IPP	Hornel CSG Solar	MN	65595	HORCS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2022	12	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
2022	12	64998	Deerfield Wind Energy 2, LLC	IPP	Deerfield Wind Energy 2	MI	65742	DWF02	112.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	112.1
2022	12	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
2022	12	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
2022	12	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
2022	12	64609	ENGIE Solidago Solar, LLC	IPP	ENGIE Solidago Solar Project - Hybrid	DE	65304	SOLAR	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2022	12	65225	Eight Point Wind, LLC	Electric Utility	Eight Point Wind	NY	66052	EPW01	11.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	101.2
2022	12	65011	EI Sauz Ranch Wind, LLC	IPP	EI Sauz Ranch Wind, LLC	TX	65760	ELSAU	301.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	301.0
2022	12	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
2022	12	65253	Electric Avenue Lunenburg Solar 1, LLC	IPP	Electric Avenue Lunenburg Solar 1	MA	66076	20410	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	40.0
2022	12	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
2022	12	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
2022	12	65004	Fruitland Creek Solar, LLC	IPP	Fruitland Creek Solar (CSG)	OR	65747	FC22	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2022	12	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
2022	12	64976	Great Prairie Wind LLC	IPP	Gruver Wind LLC	OK	65704	GW01	160.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	160.0
2022	12	60025	Greenbacker Renewable Energy Corporation	IPP	IGS SBD1	CA	66035	457	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2022	12	60025	Greenbacker Renewable Energy Corporation	IPP	MTSUN	MT	64032	MTSUN	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2022	12	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
2022	12	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2022	12	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
2022	12	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
2022	12	63499	Gunsight Solar, LLC	IPP	Gunsight Solar, LLC	SC	63813	PGR26	75.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	75.0
2022	12	65040	Hickson Solar, LLC	IPP	Hickson Solar, LLC	SC	65779	HICK	2.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2022	12	63723	Ignacio Grid, LLC	IPP	Ignacio Grid Energy Storage System	TX	64089	IGN01	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2022	12	64847	Inertia Wind Project, LLC	IPP	Inertia Wind Project	TX	65546	WINER	301.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	301.0
2022	12	49893	Invenery Services LLC	IPP	Delliah Solar Energy LLC	TX	63194	GEN1	300.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	300.0
2022	12	49893	Invenery Services LLC	IPP	Invenery Nelson Expansion LLC	IL	60387	GEN3	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	190.0
2022	12	49893	Invenery Services LLC	IPP	Invenery Nelson Expansion LLC</									

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	12	65120	Kearsarge Smithfield LLC	IPP	Kearsarge Smithfield LLC	RI	65949	SMITH	8.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	8.0
2022	12	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
2022	12	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
2022	12	65121	Kearsarge West Shore Solar LLC	IPP	Kearsarge West Shore Solar LLC	RI	65954	PORT	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2022	12	63289	Key Capture Energy	IPP	TX13 Endurance Park Storage	TX	65696	TX13	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2022	12	64979	Kossuth County Wind, LLC	IPP	Kossuth County Wind	IA	65725	KCW	70.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	70.0
2022	12	64533	Lacy Creek Wind, LLC	IPP	Lacy Creek Wind Energy Center	TX	65162	LCW1	301.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	301.3
2022	12	64735	Ledyard Windpower, LLC	IPP	Ledyard Windpower, LLC	IA	65390	LDYRD	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	207.0
2022	12	50123	Leeward Asset Management, LLC	IPP	Chaparral Springs	CA	64864	CHAPS	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2022	12	50123	Leeward Asset Management, LLC	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2022	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Bellflower Solar 1	IN	65031	INBF1	152.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	152.5
2022	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elk Hill Solar 1	PA	63773	PAEH1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2022	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Sun Mountain Solar 1	CO	65032	COSM1	200.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	200.0
2022	12	64611	Limestone Wind Project, LLC	IPP	Limestone Wind Project	TX	65306	LIMEW	299.2	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	299.2
2022	12	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
2022	12	59883	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
2022	12	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
2022	12	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
2022	12	61944	MN8 Energy LLC	IPP	NY8 - Regan Solar	NY	65124	GEN1	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2022	12	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
2022	12	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
2022	12	64714	Maplewood Solar	Electric Utility	Maplewood Solar	VA	65319	MAPL	120.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	120.0
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	56990	NJR Clean Energy Ventures Corporation	IPP	Canal Road Solar	NJ	66089	CANAL	5.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.5
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	65204	Niagara Depot Solar, LLC	IPP	Niagara Depot Solar	NY	66040	23204	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2022	12	13683	North Carolina EI Member Corp	Electric Utility	Collier BESS	NC	65248	BAT1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	12	13683	North Carolina EI Member Corp	Electric Utility	Docs Road BESS	NC	65249	BAT1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	12	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
2022	12	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
2022	12	13683	North Carolina EI Member Corp	Electric Utility	Maysville BESS	NC	65240	BAT1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	12	13683	North Carolina EI Member Corp	Electric Utility	McKinney BESS	NC	65241	BAT1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	12	13683	North Carolina EI Member Corp	Electric Utility	New Rosewood BESS	NC	65243	BAT1	2.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.5
2022	12	13683	North Carolina EI Member Corp	Electric Utility	Rocky Point BESS	NC	65245	BAT1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	12	13683	North Carolina EI Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	BAT1	2.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.5
2022	12	13683	North Carolina EI Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	SOL1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2022	12	13683	North Carolina EI Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	BAT1	0.6	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	0.6
2022	12	13683	North Carolina EI Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	SOL1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2022	12	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
2022	12	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
2022	12	13683	North Carolina EI Member Corp	Electric Utility	Walkers Crossroads BESS	NC	65246	BAT1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2022	12	64084	OE_TN1	IPP	OETN1	TN	64507	OETN1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2022	12	65041	Ogburn Solar, LLC	IPP	Ogburn Solar, LLC	SC	65780	OGBRN	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2022	12	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
2022	12	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
2022	12	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
2022	12	61298	Pine Gate Renewables	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2022	12	61298	Pine Gate Renewables	IPP	East Nash PV2	NC	63789	ENSH2	26.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	26.0
2022	12	61298	Pine Gate Renewables	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2022	12	61298	Pine Gate Renewables	IPP	Pleasant Hill PV1	NC	63787	PHILL	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2022	12	64909	Pisgah Ridge Solar, LLC	IPP	Pisgah Ridge Solar, LLC	TX	65631	PSGAH	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2022	12	64610	Powells Creek Farm Solar, LLC	IPP	Powells Creek Solar - Hybrid	VA	65305	SOLAR	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2022	12	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
2022	12	64912	SR Bolivar, LLC	IPP	SR Bolivar	TN	65640	SRBOL	3.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.3
2022	12	64361	SR Cedar Springs, LLC	IPP	SR Cedar Springs, LLC	GA	64840	SRCS	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2022	12	64360	SR Clay, LLC	IPP	SR Clay, LLC	GA	64838	CLAY	106.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	106.0
2022	12	64362	SR DeSoto I, LLC	IPP	SR DeSoto I, LLC	GA	64841	SOT01	165.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	165.0
2022	12	64910	SR Greenville I	IPP	SR Greenville I	TN	65638	SRGN1	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.8
2022	12	64911	SR Greenville II, LLC	IPP	SR Greenville II	TN	65639	SRGN2	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.8
2022	12	64915	SR McKellar, LLC	IPP	SR McKellar, LLC	TN	65629	SRMCK	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2022	12	64913	SR Paris, LLC	IPP	SR Paris	TN	65641	SRPAR	6.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.8
2022	12	65058	SV CSG Baileyville 1 LLC	IPP	SV CSG Baileyville 1 LLC	IL	65796	BAIL1	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2022	12	65077	SV CSG Baileyville 2 LLC	IPP	SV CSG Baileyville 2 LLC	IL	65890	BAIL2	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2022	12	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
2022	12	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
2022	12	65007	Sandy River Solar, LLC	IPP	Sandy River Solar (CSG)	OR	65750	SR22	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2022	12	65008	Sesqui-C Solar, LLC	IPP	Sesqui-C Solar (CSG)	OR	65751	SC22	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2022	12	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
2022	12	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1138	1.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	1.5
2022	12	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1258	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2022	12	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1260	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	12	64612	Sunnybrook Farm Solar, LLC	IPP	Sunnybrook Solar Project - Hybrid	VA	65307	SUNS	51.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	51.0
2022	12	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
2022	12	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid	MA	62971	SYWEB	2.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.9
2022	12	18454	Tampa Electric Co	Electric Utility	Laurel Oaks Solar	FL	65684	1	61.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	61.2
2022	12	18454	Tampa Electric Co	Electric Utility	Riverside Solar	FL	65687	1	55.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	55.0
2022	12	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E4	CA	65675	PV	150.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.9
2022	12	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E5	CA	65676	PV	75.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.5
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	65173	United States Solar Corporation	IPP	USS Franklin Solar LLC	MN	65439	USSFS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2022	12	65173	United States Solar Corporation	IPP	USS Mesa Solar LLC	MN	65442	USSMS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2022	12	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN13	10.0	Natural Gas Steam Turbine	NG	ST	(TS) Construction complete, but not yet in commercial operation	10.0
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	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
2022	12	65015	Walleye Wind, LLC	IPP	Walleye Wind	MN	65764	WWLLC	110.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	110.0
2022	12	64315	Walmart Stores Texas, LLC	Commercial	WAL1801	TX	64884	GEN1	0.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.4
2022	12	64315	Walmart Stores Texas, LLC	Commercial	WAL1801	TX	64884	GEN2	0.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.4
2022	12	64315	Walmart Stores Texas, LLC	Commercial	WAL1801	TX	64884	GEN3	0.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.4
2022	12	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
2022	12	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
2022	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
2022	12	65013	Young Wind, LLC	IPP	Young Wind	TX	65763	WYOUN	500.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	500.0
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	(U) Under construction, less than or equal to 50 percent complete	4.0
2023	1	61514	Agilitas 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	Agilitas 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	64273	Angel Fire Energy Facility, LLC	Electric Utility	Angel Fire Energy Facility	NM	64695	BESS	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	9.8
2023	1	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	1	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	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	64804	Ball Hill Wind Energy, LLC	IPP	Ball Hill Wind Energy, LLC	NY	65495	BALLH	107.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	107.2
2023	1	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	1	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	1	56310	Boise White Paper LLC	Industrial	Packaging Corp. of America Jackson Mill	AL	65044	STG2	26.8	Wood/Wood Waste Biomass	BLQ	ST	(V) Under construction, more than 50 percent complete	26.8
2023	1	56769	Consolidated Edison Development Inc.	IPP	Pleasant Hill Solar	VA	65220	PHSPV	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2023	1	56769	Consolidated Edison Development Inc.	IPP	Watlington Solar	VA	65221	WSPV	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2023	1	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	1	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	1	5248	Dominion Energy Inc	Electric Utility	Otter Creek Solar	VA	63909	OTTER	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0
2023	1	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	1	63237	Emerald Hills Holding I, LLC	IPP	Depot Solar Center, LLC	VA	61691	DEPOT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
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	64428	Evergy, Inc.	IPP	Hawthorn Solar I	MO	65296	HAW10	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
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	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	1	62856	Forefront Power, LLC	IPP	CA-DGS RFP-Pleasant Valley State Prison	CA	65626	15112	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	Bizer Creek	NY	66094	561	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	Cortez Solar 1, LLC	CO	66095	712	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	IGS SBD2	CA	66039	457	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	Maple City	IA	66068	704	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	Urtica Solar Project	WA	62067	URTIC	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	1	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	1	65076	HEN Infrastructure, L.L.C.	IPP	Holcomb (TX)	TX	65829	HOLCO	9.9	Batteries				

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	49893	Invenery Services LLC	IPP	Sapphire Sky Wind Energy LLC	IL	65316	65011	259.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	259.8
2023	1	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	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	Howard Lane Solar	RI	65386	HOWRD	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	1	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	1	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	1	13683	North Carolina EI Member Corp	Electric Utility	Zion Hill BESS	NC	65247	BAT1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	1	63216	North Valley	IPP	North Valley	NV	63491	OC1	25.0	Geothermal	GEO	BT	(V) Under construction, more than 50 percent complete	37.0
2023	1	64130	Novel Schroeder Solar 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	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	1	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	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	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	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	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	1	17609	Southern California Edison Co	Electric Utility	DESI-2 Battery Storage Facility	CA	62460	DESI2	1.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.4
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	65172	Titlow Garden LLC	IPP	Titlow Garden LLC	MN	66004	TTLOW	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	1	65173	United States Solar Corporation	IPP	USS Catfish Solar LLC	MN	65440	USSCF	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	1	65173	United States Solar Corporation	IPP	USS Wells Creek Solar LLC	MN	65443	USSWC	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	1	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	1	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	1	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	2	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	KLOAB	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	30.0
2023	2	59496	Allete Clean Energy	IPP	Red Barn Energy	WI	65282	WT	91.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 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	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	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	2	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	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	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	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	56769	Consolidated Edison Development Inc.	IPP	CED West Side Canal Battery Storage	CA	65980	WCBS	131.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	131.0
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	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	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	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	2	65076	HEN Infrastructure, L.L.C.	IPP	Screwbean	TX	65835	SCRWB	9.9	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	9.9
2023	2	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 complete	5.3
2023	2	49893	Invenery Services LLC	IPP	Number Three Wind Project	NY	65522	65013	106.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	106.0
2023	2	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	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Happy Solar 1	AR	63766	ARHA1	95.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	95.0
2023	2	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	2	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	2	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	2	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	2	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	2	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	2	64293	Novel Froehle Solar 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	64294	Novel Milbradt Solar 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	64549	Phare Garden LLC	IPP	Phare Garden	MN	65223	CGS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	2	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	2	63082	ProEnergy Services	IPP	Mark One Power Station	TX	65372	CTG-1	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
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	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	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	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	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	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	2	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	3	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	3	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	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	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	63883	Broad Reach Power	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	25.0
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	(V) Under construction, more than 50 percent complete	40.6
2023	3	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A2	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	40.6
2023	3	63466	Conductive Power											

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	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-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	7140	Georgia Power Co	Electric Utility	Kings Bay Solar Facility	GA	59864	BESS	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2023	3	7140	Georgia Power Co	Electric Utility	Vogle	GA	649	3	1,114.0	Nuclear	NUC	ST	(V) Under construction, more than 50 percent complete	1,114.0
2023	3	64672	Gorham Solar 1, LLC	IPP	Gorham Solar 1, LLC	ME	65342	GS1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS AKC1	OH	65985	461	3.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.8
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS PCW1	OH	66069	462	3.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.1
2023	3	65212	Hobnail Solar, LLC	IPP	Hobnail Solar	GA	66026	GA-03	70.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	70.0
2023	3	49805	Kennecott Utah Copper	Industrial	Copperton Solar Plant No. 1	UT	64427	CSP1	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(T) Regulatory approvals received. Not under construction	196.0
2023	3	64528	Lily Garden LLC	IPP	Lily Garden	MN	65160	CSG	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	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	Love Lane Solar	NJ	65486	LOVLN	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2023	3	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	3	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	3	64443	Novel Brock Solar 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	64444	Novel Swenson Solar 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	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	3	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	3	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	7	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	8	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	Mark One Power Station	TX	65372	CTG-2	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-3	44.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2023	3	65250	Rafterville Solar, LLC	IPP	Rafterville 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	65057	SV CSG Barrass Farms II LLC	IPP	SV CSG Barrass Farms II LLC	IL	65803	BARAS	1.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	3	65051	SV CSG South Dekalb 2 LLC	IPP	SV CSG South Dekalb 2 LLC	IL	65800	DKLB2	1.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	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	3	61950	Terra-Gen Operating Co-Solar	IPP	Lockhart Solar PV, LLC	CA	10444	LOC1	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	3	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	C01	1.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.9
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	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	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	4	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	4	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	4	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	4	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	A3	27.3	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	40.6
2023	4	4226	Consolidated Edison Co-NY Inc	Electric Utility	Fox Hills Battery Station	NY	65035	ESSFH	7.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	7.5
2023	4	56769	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	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	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	64520	Enxig Aditya, LLC	IPP	Enxig 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 - 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	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	(T) Regulatory approvals received. Not under construction	2.3
2023	4	61194	Generate Capital	IPP	Yellow Mills Rd #2 Community Solar Farm	NY	62518	1181	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2023	4	61194	Generate Capital	IPP	Yellow Mills Rd #3 Community Solar Farm	NY	62519	1244	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
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)	TX	65830	JUNCT	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	Olney	TX	65832	OLNEY	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	Val Verde	TX	65837	VALVR	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2023	4	63837	Hecate Energy Frye Solar LLC	IPP	Hecate Energy Frye Solar LLC	TX	64233	80995	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2023	4	65181	House Mountain	IPP	House Mountain	TX	66006	BA	83.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	73.2
2023	4	49893	Invenery Services LLC	IPP	Canisteo Wind Farm	NY	62947	GEN1	290.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	290.7
2023	4	63776	JSD Flatwood PV-1, LLC	IPP	Davis Road Solar	SC	64156	2002	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	4	63776	JSD Flatwood PV-1, LLC	IPP	Fairview Solar	SC	64205	2003	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	4	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	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	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	4	64131	Novel Caroline Solar, LLC	IPP	Novel Caroline Solar, LLC CSG	MN	64485	CRLE	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
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	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	17609	Southern California Edison Co	Electric Utility	Anode (Springville) BESS	CA	65458							

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	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	STAMP	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2023	4	65173	United States Solar Corporation	IPP	USS Giveback Solar LLC	CO	65990	USSGB	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(L) Regulatory approvals pending. Not under construction	3.0
2023	4	64545	Vesper Energy Development LLC	IPP	Gauche Solar	PA	65214	GCHOS	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2023	5	61514	Agilitas 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
2023	5	59050	Algonquin Power Co	IPP	Sandy Ridge Wind 2, LLC	PA	65741	SRW2	87.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.3
2023	5	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	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	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	5	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	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	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	63715	Hecate Energy Albany 1 LLC	IPP	Hecate Energy Albany County 1	NY	64077	ALBNY	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2023	5	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	5	64978	Hecate Grid Carris Storage 1 LLC	IPP	Carris Storage 1	CA	65733	HECAR	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2023	5	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
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	103.7
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	64442	MN CSG 2019-17 LLC	IPP	MN CSG 2019-17 LLC	MN	65004	MOORE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(P) Planned for installation, but regulatory approvals not initiated	88.0
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	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	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	Cadillac Battery Energy Storage Facility	CA	63326	CAD1	3.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.5
2023	5	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	5	64716	Springfield Solar	Electric Utility	Springfield Solar	VA	65317	SPRG	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	5	64481	TC Solar RCE LLC	IPP	TC Solar RCE	MN	65065	CGS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
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 Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	5	65173	United States Solar Corporation	IPP	USS Drensen Family Solar LLC	MN	65991	USSDF	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	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	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W11	18.8	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W12	18.8	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W13	18.8	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W14	18.8	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W15	18.8	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2023	5	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W16	18.8	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	18.8
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	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	2	75.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	75.0
2023	6	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	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	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	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	65168	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	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	64947	EDPR CA Solar Park II LLC	IPP	Sandri Solar 100	CA	65664	GEN02	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
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	S			

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	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	Invenergy Services LLC	IPP	Delliah 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	Invenergy 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	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
2023	6	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	6	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	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	Eichten 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	62836	Navisun LLC	IPP	Acushnet MA 1	MA	64706	ACNT1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	6	62836	Navisun LLC	IPP	Acushnet MA 2	MA	64707	ACNT2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
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	14232	Otter Tail Power Co	Electric Utility	Hoot Lake Solar	MN	65066	1	49.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.9
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	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
2023	6	27075	San Diego County Water Auth	IPP	Rancho Penasquitos	CA	56615	G200	4.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	4.2
2023	6	65161	South Garden LLC	IPP	South Garden	MN	65989	MNC01	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
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	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	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	(L) Regulatory approvals pending. Not under construction	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	(T) Regulatory approvals received. Not under construction	1.0
2023	6	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	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	Derby Fuel Cell	CT	62588	MM49	2.8	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2023	7	6455	Duke Energy Florida, LLC	Electric Utility	High Springs Solar Power Plant	FL	65172	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
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	(U) Under construction, less than or equal to 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	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	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	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	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	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	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	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	G6PV	0.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.8
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	61785	EDP Renewables North America LLC	IPP	Scarlet Solar (CA)	CA	64908	GEN01	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	400.0
2023	8	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
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	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	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
2023	8	65086	Landrace Holdings, LLC	IPP	Landrace Holdings, LLC	SC	65955	LANDR	55.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	55.0
2023	8	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	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	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	56215	RWE Renewables Americas LLC	IPP	Big Star Solar, LLC (Hybrid)	TX	64202	BGSTB	80.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	8	56215	RWE Renewables Americas LLC	IPP	Big Star Solar, LLC (Hybrid)	TX	64202	BGSTS	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
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

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	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	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	15399	Avangrid Renewables LLC	IPP	Bakeoven Solar	OR	63507	BOS1	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2023	9	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
2023	9	65210	Bird Dog Solar, LLC	IPP	Bird Dog Solar	GA	66024	GA-01	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2023	9	65211	Blackwater Solar, LLC	IPP	Blackwater Solar	GA	66025	GA-02	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	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	Sandriani Solar 200	CA	65663	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2023	9	64074	Freepoint Solar LLC	IPP	Woodville Solar	RI	64530	1	4.5	Solar Photovoltaic	SUN	PV	(OT) Other	4.5
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	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	9	64972	IP Oberon II, LLC	IPP	Oberon II Solar Project	CA	65735	OBIIB	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	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2023	9	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	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	64715	Quillwort Solar	Electric Utility	Quillwort Solar	VA	65318	POW1	18.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	18.0
2023	9	56215	RWE Renewables Americas LLC	IPP	Fifth Standard Solar PV, LLC (Hybrid)	CA	64197	FTHSS	117.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	117.0
2023	9	56215	RWE Renewables Americas LLC	IPP	Fifth Standard Solar PV, LLC (Hybrid)	CA	64197	FTHSS	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2023	9	64713	Sebera Solar	Electric Utility	Sebera Solar	VA	65320	SEBE	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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 E1B	CA	65674	BESS	140.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	140.4
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	63525	Westlands Solar Blue, LLC	IPP	Solar Blue	CA	63848	SBUE	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	Paris Solar	WI	65967	PSLR1	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2023	9	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	9	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
2023	9	65213	Wolfskin Solar, LLC	IPP	Wolfskin Solar	GA	66027	GA-04	38.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	38.0
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	MVSPV	7.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.0
2023	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
2023	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
2023	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
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	15399	Avangrid Renewables LLC	IPP	Daybreak Solar	OR	64974	DBS1	140.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	140.0
2023	10	61715	Bell Solar	IPP	Bell Solar	SC	62183	25	6.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.1
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	61732	Fairfield Solar	IPP	Fairfield Solar	SC	62212	36	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
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	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
2023	10	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM50	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2023	10	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM51	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2023	10	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM52	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2023	10	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
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	49893	Invenery 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	10	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
2023	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Honeysuckle Solar Farm	IN	65936	INH51	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	64371	RPNY Solar 3, LLC	IPP	Slayton Settlement Road Solar	NY	64867	SLYTA	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2023	10	64371	RPNY Solar 3, LLC	IPP	Slayton Settlement Road Solar	NY	64867	SLYTB	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	10	20856	Wisconsin Power & Light Co	Electric Utility	Wautoma Solar	WI	65000	PV1	99.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	99.0
2023	11	63118	224WB 8me LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2023	11	61525	231RC 8me LLC	IPP	Norton Solar Farm	TX	61967	NSM01	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2023	11	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
2023	11	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	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
2023	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
2023	11	55963	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	(U) Under construction, less than or equal to 50 percent complete	464.0
2023	11	195	Alabama Power Co	Electric Utility	Barry	AL	3	A3ST	300.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	310.0
2023	11	15399	Avangrid Renewables LLC	IPP	Mohawk Solar	NY	64253	S1	90.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.5
2023	11	63965	Badger Wind, LLC	IPP	Badger Wind, LLC	ND	64342	5555	252.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	252.0
2023	11	64455	CG Wharton County LLC	IPP	Sandy Branch Solar	TX	65034	CSBS1	230.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	230.0
2023	11	64364	Daggett Solar Power 2 LLC	IPP	Daggett 2	CA	64851	DAGGB	131.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	131.0
2023	11	64364	Daggett Solar Power 2 LLC	IPP	Daggett 2	CA	64851	DAGGP	182.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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												

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2023	11	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	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
2023	11	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
2023	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Oxbow Solar 1	LA	65030	LAVE1	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	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	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
2023	11	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
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	64931	Texas Solar Nova 1, LLC	IPP	Texas Solar Nova 1	TX	65654	TSN1	252.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	252.0
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	20856	Wisconsin Power & Light Co	Electric Utility	Grant County	WI	65007	PV1	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2023	11	20856	Wisconsin Power & Light Co	Electric Utility	Paddock Solar	WI	64998	PV1	65.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	65.0
2023	11	64776	Wolf Pit Branch Solar, LLC	IPP	Wolf Pit Branch Solar, LLC	SC	65437	PGB38	15.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	92JT8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	64244	92JT 8me, LLC	IPP	Big Rock Solar Farm	CA	64636	92JT8	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	80.0
2023	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
2023	12	57416	Acciona Energy USA Global, LLC	IPP	AEGUG Madison Solar, LLC	KY	64659	AMS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2023	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
2023	12	64615	Antares Group Inc	IPP	Elm Spring Solar 1	VA	65313	ES	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	12	64949	Appaloosa Solar I, LLC	IPP	Appaloosa Solar I	UT	65678	AS1A	120.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	120.0
2023	12	64949	Appaloosa Solar I, LLC	IPP	Appaloosa Solar I	UT	65678	AS1B	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2023	12	64996	Arica Solar, LLC	IPP	Arica Solar	CA	65744	ARCBV	136.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	136.0
2023	12	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	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
2023	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
2023	12	15399	Avangrid Renewables LLC	IPP	Midland Wind	IL	63003	1	105.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	105.5
2023	12	64842	Baron Winds II	IPP	Baron Winds II	NY	65513	BRNW2	113.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	113.2
2023	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
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	64739	Black Walnut Energy Storage LLC	IPP	Black Walnut Energy Storage LLC	CA	65396	BW1	15.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	15.0
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	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2023	12	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2023	12	63799	Cabin Creek Solar I LLC	IPP	Cabin Creek Solar	MT	64199	CBCK1	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2023	12	63819	Cabin Creek Solar II LLC	IPP	Cabin Creek Solar II	MT	64203	CBCK2	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2023	12	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
2023	12	64624	Cedar Creek Wind, LLC	IPP	Cedar Creek Wind, LLC	ID	65311	CDCR1	160.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	160.0
2023	12	64934	Chiquito Grid, LLC	IPP	Chiquito Grid, LLC	CA	65655	HECHK	80.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	80.0
2023	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
2023	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
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	3913	City of Colby - (KS)	Electric Utility	Colby City of	KS	1272	11	3.0	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	12	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2023	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
2023	12	64389	ConnectGen Chautauqua County LLC	IPP	South Ripley Solar	NY	64911	CSR1	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	DSPV	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2023	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
2023	12	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
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	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN4	43.3	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	43.3
2023	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
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	64266	OLINC	35.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	35.0
2023	12	58970	Ecoplexus, Inc	IPP	Westminister 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	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
2023	12	64810	Eversource Energy	IPP	South Fork Wind	NY	65561	SFWND	130.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	130.0
2023	12													

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	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
2023	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
2023	12	63782	Hecate Energy Cider Solar LLC	IPP	Hecate Energy Cider Solar LLC	NY	64163		500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
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	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	(L) Regulatory approvals pending. Not under construction	201.5
2023	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
2023	12	64738	Hummingbird Energy Storage, LLC	IPP	Hummingbird Energy Storage LLC	CA	65395	HUMB1	75.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	75.0
2023	12	49893	Invenegy Services LLC	IPP	Alle-Catt Wind Energy LLC	NY	62954	GEN1	340.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	340.0
2023	12	49893	Invenegy 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
2023	12	49893	Invenegy 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	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JH101	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JH102	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JH103	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	50123	Leeward Asset Management, LLC	IPP	Horizon Solar	TX	65308	HRZNS	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Union Ridge Solar	OH	65338	UNIS1	108.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	108.0
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	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	59883	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	65131	Mammoth North, LLC	IPP	Mammoth North Solar	IN	65957	GEN1	400.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	400.0
2023	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2023	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2023	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2023	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
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	63467	Naturgy Candela DevCo LLC	IPP	Mark Center Solar Project	OH	65050	MRC1	110.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	110.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLES1	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLPV1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2023	12	13407	Nevada Power Co	Electric Utility	Iron Point Solar (Hybrid)	NV	65377	IPB	200.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	200.0
2023	12	13407	Nevada Power Co	Electric Utility	Iron Point Solar (Hybrid)	NV	65377	IPS	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
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_FL7	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	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
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	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
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	64953	Putnam Meadow Solar Station, LLC	IPP	Putnam Meadow Solar Station	CT	65710	PTNMS	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
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	VCP05	2.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.5
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	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	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
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCBAT	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCSOL	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2023	12	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	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.4
2023	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
2023	12	63515	Sparta Solar, LLC	IPP	Sparta Solar	TX	63840	1111	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2023	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	50.0
2023	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
2023	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
2023	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
2023	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
2023	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
2023	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
2023	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
2023	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
2023	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
2023	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
2023	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
2023	12	63536												

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	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2023	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	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
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	Axton Solar	VA	65462	AXTON	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2023	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
2023	12	64545	Vesper Energy Development LLC	IPP	Nestlewood Solar	OH	65215	NSTLW	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2023	12	64966	Vikings Energy Farm, LLC	IPP	Vikings Energy Farm	CA	65711	GEN1	120.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	130.0
2023	12	64966	Vikings Energy Farm, LLC	IPP	Vikings Energy Farm	CA	65711	GEN2	150.0	Batteries	MWH	BA	(L) Regulatory approvals pending. 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	63527	Westlands Chery, LLC	IPP	Chery	CA	63850	CHERY	249.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	249.7
2023	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
2023	12	63961	White Rock Wind East, LLC	IPP	White Rock East Wind Project	OK	64341	WRE	201.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	99.5
2023	12	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
2023	12	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
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
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	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
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	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	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	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	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	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Birch Solar	OH	66054	OHB1	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	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
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	62709	Bakerstand Solar LLC	IPP	Bakerstand Solar (NY)	NY	62811	BKSTD	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	3	63883	Broad Reach Power	IPP	Cachi	TX	65861	CACHI	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	3	63465	Candela Renewables, LLC	IPP	Rough Hat 2	NV	63783	RH2	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	3	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
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											

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	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	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	63726	Renewable Energy Ventures 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	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	FCSVPV	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	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	20SD8	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	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	SBS	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
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	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	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	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	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	64165	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	PACS7	21.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	21.1
2024	5	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	1	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2024	5	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2024	5	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2024	5	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2024	5	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	5	0.2	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.2
2024	5	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	6	0.2	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.2
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	6	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	6	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
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	64217	Bald Mountain Solar LLC	IPP	Bald Mountain Solar	NY	64598	GEN1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	6	64267	Big Creek Solar LLC	IPP	Big Creek Solar LLC	AR	64670	KOV4A	400.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	400.0
2024	6	63883	Broad Reach Power	IPP	Desna	TX	65876	DESNA	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	6	63883	Broad Reach Power	IPP	Octans	TX	65590	OCTNS	125.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	125.0
2024	6	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
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	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	65083	Cutlass Solar II 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	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	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	50123	Leeward Asset Management, LLC	IPP	Cradle Solar	TX	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	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	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	58489	OCI Solar Power	IPP	OCI SunRay	TX	64258	OCISR	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	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	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	5.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	5.0
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	Arevon Asset Management	IPP	Elliott 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	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	8	58113	Texas A&M, Utilities & Energy Services	Commercial	Central Utility Plant - Texas A&M	TX	58151	STG03	10.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2024	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
2024	9	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
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	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
2024	9	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	9	64545	Vesper Energy Development LLC	IPP	Kingwood Solar	OH	65425	KWOOD	175.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	175.0
2024	10	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
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	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	SONRI	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	201.0
2024	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
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	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	65079	Solar Proponent LLC	IPP	Middlebrook Creek Solar and BESS	TX	65853	MIDBS	302.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	302.9
2024	10	65079	Solar Proponent LLC	IPP	Middlebrook Creek Solar and BESS	TX	65853	MIDPV	609.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	609.1
2024	10	65179	SolarGen of South Carolina, LLC	IPP	Brogdon Solar Park	SC	66012	BROGD	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2024	10	64691	West Baldwin Solar Station LLC	IPP	West Baldwin Solar Station	ME	65371	WBSS	17.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.1
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	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
2024	11	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
2024	11	64388	ConnectGen Montgomery County LLC	IPP	Mill Point Solar	NY	64912	CMPS1	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
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	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	63726	Renewable Energy Ventures LLC	IPP	Forest Grove - Dodd	TX	64131	FGPV1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.6
2024	11	63726	Renewable Energy Ventures LLC	IPP	Oak Hill - Dry Creek	TX	64132	PV1	390.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	390.9
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	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	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
2024	12	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
2024	12	60799	33UI 8me LLC	IPP	Gale 1 Solar	UT	61170	33UIB	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	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
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	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	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	64434	Beaver Creek Wind I, LLC	IPP	Beaver Creek I	MT	65019	BCW1	50.0	Onshore Wind Turbine	WND</			

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	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	BOSWVW	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	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	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	127.0
2024	12	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
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	(L) Regulatory approvals pending. Not under construction	260.0
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	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	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	49893	Invenery 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	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	HNYSB	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	PARSO	58.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	58.0
2024	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	4	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2024	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	5	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2024	12	13407	Nevada Power Co	Electric Utility	Hot Pot Solar	NV	65419	HPB	280.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	280.0
2024	12	13407	Nevada Power Co	Electric Utility	Hot Pot Solar	NV	65419	HPS	350.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	350.0
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	OELC	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
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	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	63426	RE Bravepost LLC	IPP	RE Bravepost LLC	TX	63730	BVPST	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	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	27075	San Diego County Water Auth	IPP	Alvarado Hydro Facility	CA	54242	SD28H	1.4	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	1.4
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	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	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	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	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	113.0
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	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	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	59056	Tri Global Energy, LLC	IPP	Water Valley Wind Energy	TX	62846	WWE1	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
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	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	5	57045	Guadalupe Power Partners LP	IPP	Guadalupe Generating Station	TX	55153							

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	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	58970	Ecoplexus, Inc	IPP	Grifton PV2	NC	63568	GRV2	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	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
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	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	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2025	9	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
2025	10	56769	Consolidated Edison Development Inc.	IPP	Burt County Wind	NE	61511	BCNE	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
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	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	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	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
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	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
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	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	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	60688	FGE Goodnight, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
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	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	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
2025	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2025	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2025	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	220.0
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	350.0
2025	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	250.0
2025	12	61331	Popular Camp Wind Farm LLC	IPP	Popular 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	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	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
2026	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
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	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 1	550.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	660.0
2026	1	61638	Harrison Power 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)
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	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	Gedosh Solar II	IPP	Gedosh 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	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	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
2026	7	61906	Rye Development	IPP	Arkabutla Lake Hydroelectric Project	MS	62402	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2026	7	61906	Rye Development	IPP	Grays Landing L&D Hydroelectric Project	PA	62388	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2026	7	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
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	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	61714												

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	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	3	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2026	12	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
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	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
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	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	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	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	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6
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	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
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	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	Luminant Generation Company LLC	IPP	Alira	TX	63193	UNIT1	222.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	222.8
2030	3	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0
2030	5	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM3	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0
2030	7	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM4	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0
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

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	11	221	Alaska Village Elec Coop, Inc	Electric Utility	Mountain Village	AK	6329	3B	0.5	Petroleum Liquids	DFO	IC
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	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	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
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	9417	Interstate Power and Light Co	Electric Utility	Lansing	IA	1047	4	241.4	Conventional Steam Coal	SUB	ST
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	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H4	0.5	Conventional Hydroelectric	WAT	HY
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
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	61956	Mount Sinai South Nassau Hospital	Commercial	Mount Sinai South Nassau Hospital	NY	62447	3	1.0	Petroleum Liquids	DFO	IC
2023	1	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2023	1	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2023	1	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	1	626.0	Conventional Steam Coal	BIT	ST
2023	1	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	2	75.4	Natural Gas Steam Turbine	NG	ST
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE10	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE11	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE12	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE13	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE14	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN5	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN6	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN7	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN8	0.8	Landfill Gas	LFG	IC
2023	2	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN9	0.8	Landfill Gas	LFG	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

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	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	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO1	0.5	Petroleum Liquids	DFO	IC
2023	3	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO2	0.5	Petroleum Liquids	DFO	IC
2023	3	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO3	0.3	Petroleum Liquids	DFO	IC
2023	3	17698	Southwestern Electric Power Co	Electric Utility	Pirkey	TX	7902	1	650.0	Conventional Steam Coal	LIG	ST
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	115.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2B	115.5	Conventional Steam Coal	SUB	ST
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-1	34.8	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-2	34.7	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-3	36.7	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-4	35.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-1	35.5	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	34.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-4	35.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-1	33.8	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	35.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-4	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	5	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	5	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	5	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	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
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	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST2	421.8	Conventional Steam Coal	BIT	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	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	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	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY

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	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	11	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L1G	2.0	Petroleum Liquids	DFO	IC
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	56440	G2 Energy LLC	IPP	G2 Energy Marion LLC	FL	57128	357	1.5	Landfill Gas	LFG	IC
2023	12	56440	G2 Energy LLC	IPP	G2 Energy Marion LLC	FL	57128	360	0.8	Landfill Gas	LFG	IC
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	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	168.0	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2023	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2023	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2023	12	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2023	12	4208	Phillips 66 Company	Industrial	Phillips 66 Carbon Plant	CA	50388	GEN1	20.0	Petroleum Coke	PC	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT
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
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	Allen	TN	3393	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA
2023	12	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	865.0	Conventional Steam Coal	BIT	ST
2023	12	20856	Wisconsin Power & Light Co	Electric Utility	Columbia (WI)	WI	8023	1	579.3	Conventional Steam Coal	RC	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

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	1	63844	Ellwood Power, LLC	IPP	Ellwood	CA	8076	01	54.0	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	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	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	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
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	20856	Wisconsin Power & Light Co	Electric Utility	Columbia (WI)	WI	8023	2	572.5	Conventional Steam Coal	RC	ST
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

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	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	328.0	Conventional Steam Coal	SUB	ST
2025	5	4254	Consumers Energy Co	Electric Utility	J H Campbell	MI	1710	3	841.4	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	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
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	6.4	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	11.0	Natural Gas Fired Combustion Turbine	NG	GT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	12.9	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	5.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	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	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
2026	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	9	174.0	Conventional Steam Coal	SUB	ST
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	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	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	75.0	Natural Gas Steam Turbine	NG	ST
2027	12	520	Illinois Power Generating Co	IPP	Newton	IL	6017	1	595.0	Conventional Steam Coal	RC	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

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
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	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
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	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	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

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
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
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

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
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
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	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

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					
			Combined Cycle		Gas Turbine		Steam Turbine		Internal Combustion		Steam Turbine		Gas Turbine		Internal Combustion	
	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor
Annual Data																
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%
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	208,985.5	57.2%	279,833.8	56.5%	132,309.7	11.6%	73,706.6	11.4%	5,225.7	17.0%	8,173.5	19.3%	13,689.1	1.8%	5,509.7	1.9%
February	208,926.0	51.6%	279,833.8	53.2%	132,309.7	10.0%	73,706.6	9.2%	5,225.7	15.4%	8,173.5	17.1%	13,689.1	1.1%	5,509.7	1.7%
March	207,734.0	40.0%	280,187.0	46.7%	132,354.2	8.7%	73,302.6	7.5%	5,256.3	13.2%	8,173.5	10.8%	13,655.1	1.1%	5,508.9	1.5%
April	207,289.0	37.6%	280,394.1	44.5%	132,424.7	10.2%	73,302.6	9.0%	5,257.8	14.7%	8,173.5	11.0%	13,530.7	1.2%	5,508.9	1.8%
May	205,761.8	41.6%	279,842.9	50.1%	132,424.7	13.0%	74,092.6	12.7%	5,315.8	15.4%	7,383.5	16.3%	13,505.5	1.8%	5,508.9	2.2%
June	203,017.8	52.0%	281,086.8	61.8%	132,634.2	17.6%	74,092.6	17.7%	5,315.8	20.5%	7,383.5	15.6%	13,408.4	2.5%	5,511.4	2.2%
July	203,035.8	59.3%	282,182.8	70.8%	132,780.7	22.2%	74,092.6	24.9%	5,317.0	25.8%	7,383.5	12.2%	13,408.4	3.6%	5,514.2	1.9%
August	202,087.8	58.3%	283,266.8	72.5%	132,541.7	20.2%	74,092.6	20.6%	5,332.0	27.3%	7,383.5	14.4%	13,408.4	3.1%	5,514.2	2.6%
Sept	201,323.8	46.0%	284,356.8	63.9%	132,666.2	14.6%	73,956.6	15.7%	5,332.0	22.6%	7,383.5	16.5%	13,382.4	2.1%	5,509.6	2.4%
October	201,318.8	37.9%	284,356.8	53.1%	132,842.7	10.7%	73,956.6	11.8%	5,332.0	17.1%	7,383.5	15.3%	13,364.4	1.6%	5,509.6	2.3%

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	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Photovoltaic	Thermal	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	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%
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%	79,922.2	44.2%	95,519.1	99.3%	4,466.8	61.8%	1,888.0	61.3%	60,027.3	17.6%	1,480.0	11.3%	132,531.1	38.3%	7,923.2	60.5%
February	2,596.7	74.4%	79,928.0	42.8%	95,519.1	96.4%	4,465.4	61.0%	1,888.0	55.9%	61,023.1	22.0%	1,480.0	15.9%	133,570.2	42.3%	7,923.2	63.8%
March	2,596.7	70.6%	79,939.7	42.8%	95,519.1	88.9%	4,465.4	60.0%	1,888.0	55.7%	61,332.3	25.0%	1,480.0	23.1%	133,835.4	43.0%	7,923.2	58.8%
April	2,596.7	70.2%	79,943.8	34.0%	95,519.1	80.4%	4,465.4	60.9%	1,888.0	55.1%	62,269.9	28.8%	1,480.0	30.1%	134,946.3	46.6%	7,923.2	54.6%
May	2,613.7	70.6%	79,949.4	38.8%	95,540.1	89.2%	4,462.6	61.1%	1,888.0	59.8%	62,700.5	31.3%	1,480.0	33.5%	136,857.1	40.8%	7,923.2	57.4%
June	2,613.7	72.1%	79,950.6	46.7%	94,771.6	96.3%	4,462.6	63.5%	1,888.0	65.1%	63,357.8	33.4%	1,480.0	34.9%	137,073.3	33.8%	7,915.4	62.6%
July	2,613.7	73.2%	79,950.6	40.5%	94,771.6	97.7%	4,407.3	63.2%	1,888.0	69.7%	64,341.9	31.5%	1,480.0	26.3%	137,456.7	28.6%	7,915.4	64.8%
August	2,630.7	73.0%	79,950.6	36.3%	94,771.6	97.7%	4,410.3	61.7%	1,888.0	61.7%	64,914.3	28.5%	1,480.0	25.3%	137,456.7	23.8%	7,927.4	62.6%
Sept	2,652.6	73.5%	79,950.6	29.2%	94,771.6	93.4%	4,401.7	60.0%	1,888.0	63.7%	65,613.0	27.1%	1,480.0	26.7%	137,496.7	27.2%	7,927.4	56.7%
October	2,652.6	67.6%	79,954.7	24.6%	94,771.6	83.6%	4,398.5	60.1%	1,888.0	59.9%	66,640.1	23.6%	1,480.0	26.4%	138,224.6	31.8%	7,929.4	51.5%

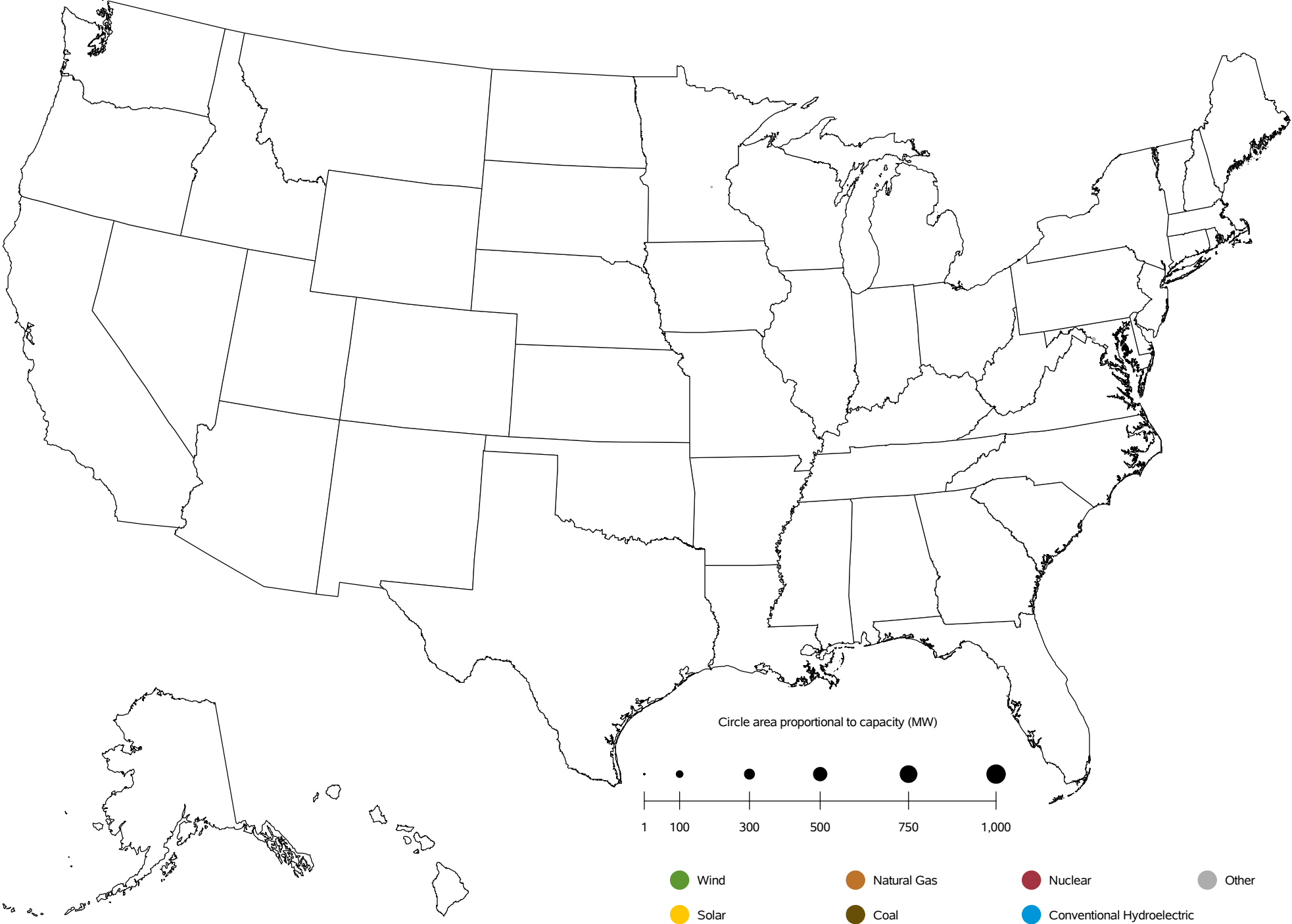
Values for 2021 and prior years are final. Values for 2022 are preliminary.

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.

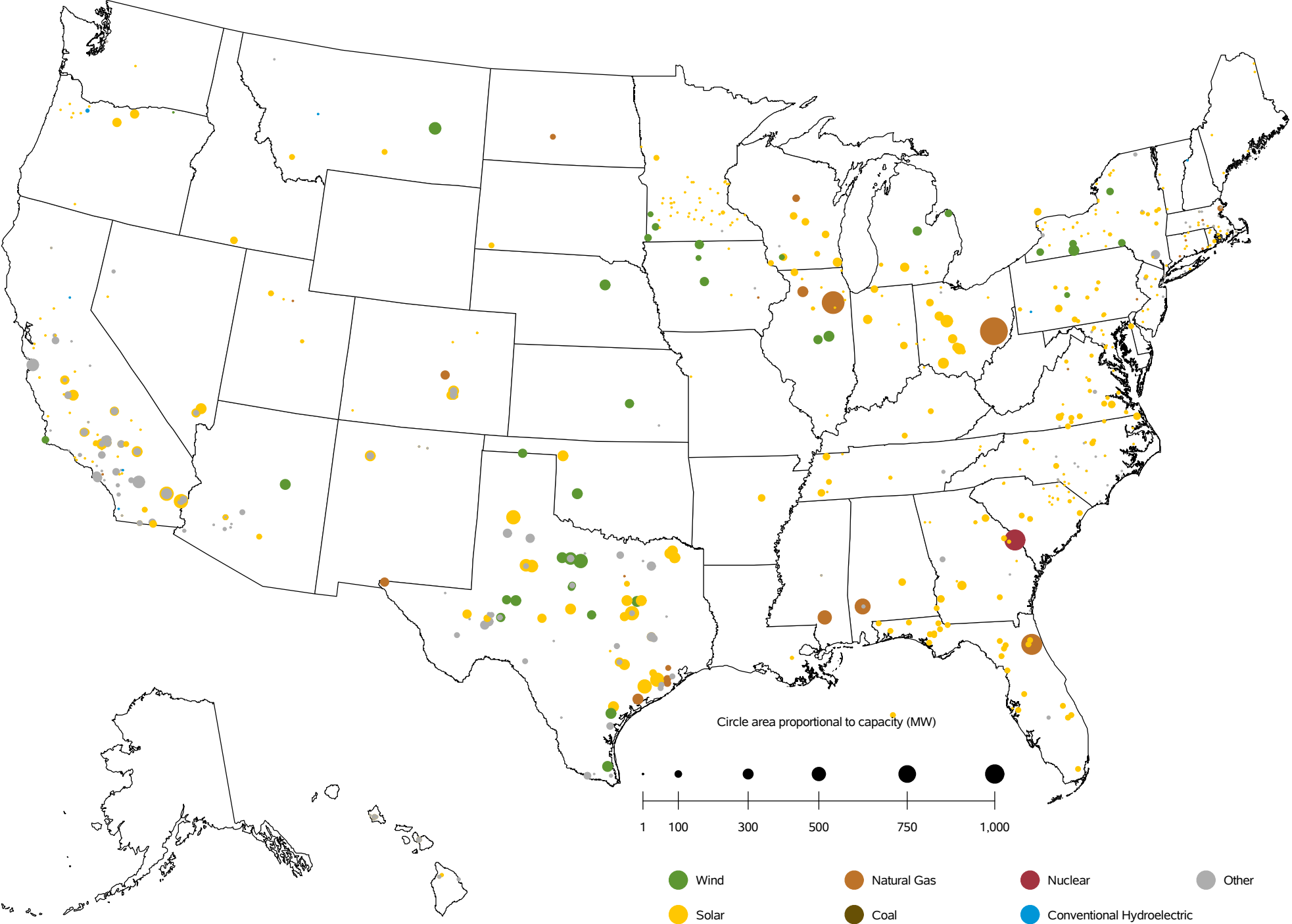
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



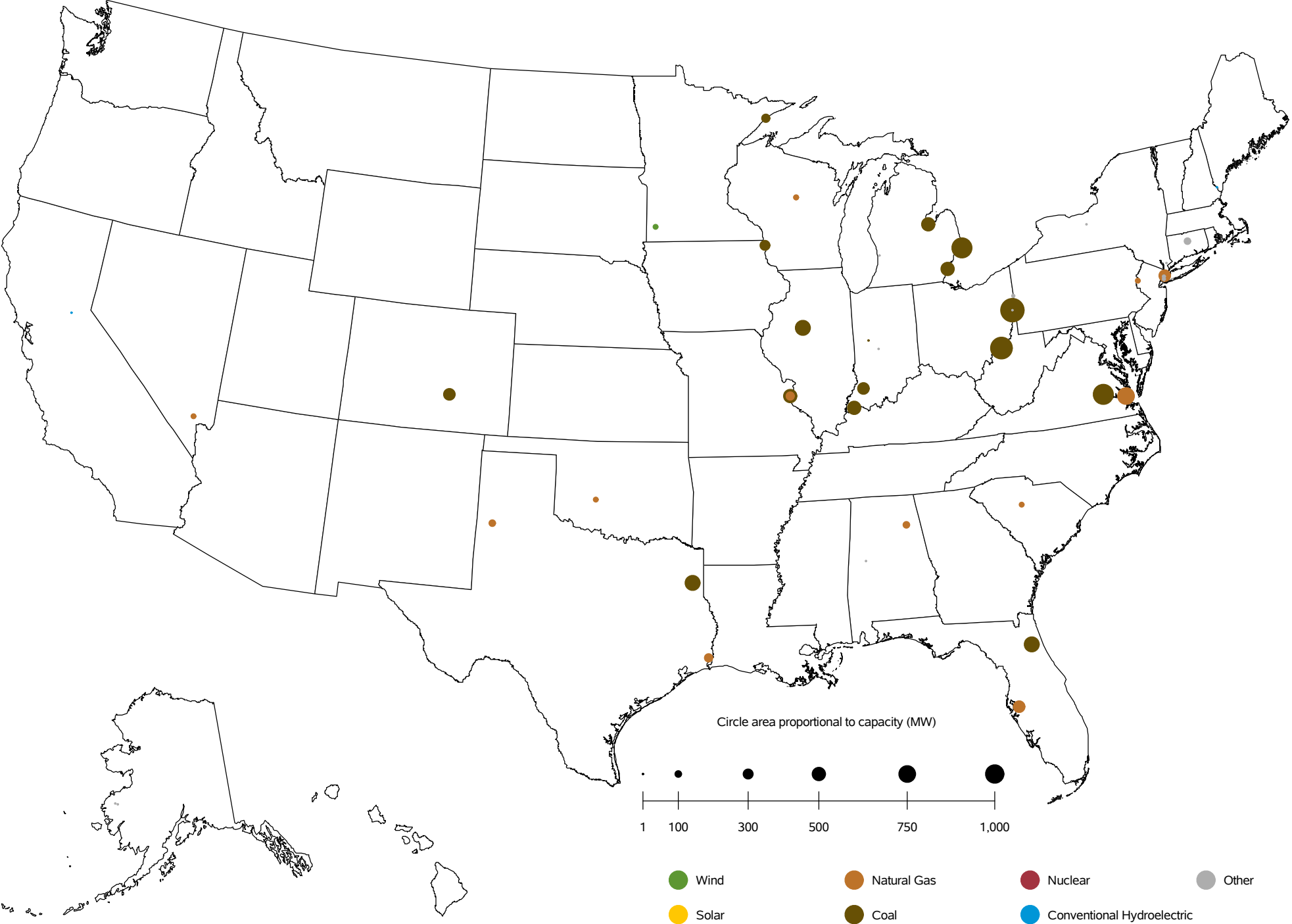
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from November 2022 to October 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 November 2022 to October 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

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
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

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

Chapter 8

Puerto Rico

**Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2012 - October 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	615	643	159	0	1,417
Sept	591	674	144	0	1,410
October	401	525	116	0	1,042
Year to Date					
2020	5,799	6,120	1,586	0	13,504
2021	5,942	6,215	1,558	0	13,716
2022	5,525	6,234	1,475	0	13,234
Rolling 12 Months Ending in October					
2021	7,051	7,416	1,882	0	16,349
2022	6,702	7,503	1,770	0	15,975

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 - October 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	184	212	48	0	445
Sept	164	203	41	0	407
October	134	195	40	0	369
Year to Date					
2020	1,112	1,308	300	0	2,721
2021	1,245	1,468	316	0	3,029
2022	1,587	1,971	427	0	3,985
Rolling 12 Months Ending in October					
2021	1,462	1,728	376	0	3,566
2022	1,849	2,303	491	0	4,642

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 - October 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
Rolling 12 Months Ending in October					
2021	1,357,186	125,953	590	0	1,483,730
2022	1,369,361	127,551	589	0	1,497,501

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 - October 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	29.99	32.99	30.46	--	31.41
Sept	27.68	30.06	28.30	--	28.89
October	33.47	37.13	34.49	--	35.43
Year to Date					
2020	19.18	21.38	18.95	--	20.15
2021	20.95	23.61	20.29	--	22.08
2022	28.73	31.61	28.91	--	30.11
Rolling 12 Months Ending in October					
2021	20.74	23.30	20.00	--	21.81
2022	27.58	30.69	27.72	--	29.06

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-October 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	3,620	0	0	5,335
2010	454	98	1,163	0	3,620	0	0	5,335
2011	454	98	1,163	0	3,622	5	0	5,343
2012	454	98	1,163	0	3,623	23	98	5,460
2013	454	98	1,163	0	3,623	26	98	5,463
2014	454	98	1,163	0	3,625	38	99	5,477
2015	454	98	1,163	9	3,629	70	99	5,522
2016	454	98	1,163	33	3,629	145	99	5,621
2017	454	98	1,163	35	3,630	145	99	5,624
2018	454	98	1,349	35	3,633	145	99	5,813
2019	454	98	1,358	35	3,638	149	99	5,831
2020	454	98	1,367	38	3,640	159	99	5,855
2021	454	98	1,367	38	3,641	159	99	5,856
Year 2022								
January	454	98	1,346	35	3,622	155	99	5,809
February	454	98	1,346	35	3,622	155	99	5,809
March	454	98	1,346	35	3,622	155	99	5,809
April	454	98	1,346	35	3,622	155	99	5,809
May	454	98	1,346	35	3,622	155	99	5,809
June	454	98	1,346	35	3,622	155	99	5,809
July	454	98	1,346	35	3,622	155	99	5,809
August	454	98	1,346	35	3,622	155	99	5,809
Sept	454	98	1,346	35	3,622	155	99	5,809
October	454	98	1,367	35	3,641	155	99	5,850

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, October 2022**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	15	0	3	0	0	9
Connecticut	0	41	0	1	0	0	27
Maine	0	6	0	21	0	0	12
Massachusetts	0	27	0	8	0	0	16
New Hampshire	0	30	0	0	0	0	25
Rhode Island	0	37	0	16	0	0	0
Vermont	0	90	0	0	0	0	17
Middle Atlantic	18	14	0	1	18	0	2
New Jersey	0	24	0	2	0	0	0
New York	0	20	0	2	0	0	1
Pennsylvania	18	11	0	1	23	0	11
East North Central	1	12	5	1	7	0	14
Illinois	0	28	0	7	0	0	41
Indiana	0	5	0	3	12	0	32
Michigan	2	13	0	2	0	0	29
Ohio	1	7	21	2	16	0	22
Wisconsin	1	32	0	3	0	0	22
West North Central	1	12	0	6	0	0	10
Iowa	0	19	0	9	0	0	36
Kansas	0	36	0	18	0	0	0
Minnesota	1	31	0	11	0	0	36
Missouri	0	17	0	11	0	0	14
Nebraska	5	53	0	46	0	0	31
North Dakota	0	17	0	36	0	0	24
South Dakota	0	68	0	42	0	0	15
South Atlantic	2	11	7	1	0	0	6
Delaware	0	114	0	6	0	0	0
District of Columbia	0	11,007	0	75	0	0	0
Florida	9	12	0	1	0	0	31
Georgia	3	23	46	3	0	0	11
Maryland	0	57	0	2	0	0	0
North Carolina	1	25	0	1	0	0	7
South Carolina	0	27	0	2	0	0	19
Virginia	0	26	0	3	0	0	16
West Virginia	3	0	0	14	0	0	13
East South Central	0	5	0	1	0	0	4
Alabama	0	32	0	2	0	0	5
Kentucky	0	3	0	3	0	0	6
Mississippi	0	4	0	2	0	0	0
Tennessee	0	1	0	5	0	0	5
West South Central	0	12	0	1	4	0	7
Arkansas	0	22	0	6	0	0	9
Louisiana	0	17	0	2	7	0	15
Oklahoma	0	8	0	3	0	0	11
Texas	0	18	0	1	3	0	21
Mountain	2	14	0	1	5	0	6
Arizona	0	9	0	1	0	0	7
Colorado	0	61	0	3	0	0	28
Idaho	233	0	0	19	0	0	12
Montana	8	73	0	16	63	0	11
Nevada	0	0	0	1	0	0	2
New Mexico	0	124	0	3	0	0	88
Utah	0	3	0	2	0	0	45
Wyoming	5	2	0	7	4	0	36
Pacific Contiguous	0	19	0	1	0	0	2
California	0	22	0	1	0	0	9
Oregon	0	469	0	5	0	0	4
Washington	0	35	0	5	0	0	1
Pacific Noncontiguous	52	1	0	27	0	0	23
Alaska	52	4	0	27	0	0	26
Hawaii	0	1	0	0	0	0	32
U.S. Total	1	2	3	0	3	0	2

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

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

Total (All Sectors) by Census Division and State, October 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	4	5	0	0	2
Connecticut	0	0	0	9	12	0	0	1
Maine	0	0	0	9	6	0	0	6
Massachusetts	0	0	0	5	4	0	1	5
New Hampshire	0	0	0	104	21	0	0	2
Rhode Island	0	0	0	11	7	0	0	14
Vermont	0	0	0	12	13	0	0	10
Middle Atlantic	0	0	0	4	2	0	1	1
New Jersey	0	0	0	5	4	0	0	1
New York	0	0	0	5	3	0	2	1
Pennsylvania	0	0	0	13	4	0	0	1
East North Central	0	0	0	2	1	0	2	1
Illinois	0	0	0	3	1	0	0	1
Indiana	0	0	0	5	2	0	0	1
Michigan	0	0	0	5	3	0	10	1
Ohio	0	0	0	3	1	0	0	1
Wisconsin	0	0	0	4	5	0	21	1
West North Central	0	0	0	4	1	0	6	1
Iowa	0	0	0	4	1	0	0	1
Kansas	0	0	0	16	2	0	0	1
Minnesota	0	0	0	5	2	0	5	2
Missouri	0	0	0	16	1	0	0	1
Nebraska	0	0	0	27	2	0	0	3
North Dakota	0	0	0	0	2	0	34	2
South Dakota	0	0	0	150	2	0	0	4
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	21	19	0	0	6
District of Columbia	0	0	0	46	14	0	0	33
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	1	2	0	0	1
Maryland	0	0	0	7	4	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	4	0	0	1
Virginia	0	0	0	2	4	0	0	1
West Virginia	0	0	0	0	0	0	0	3
East South Central	0	0	0	1	3	0	15	1
Alabama	0	0	0	2	5	0	0	1
Kentucky	0	0	0	24	19	0	0	1
Mississippi	0	0	0	1	4	0	0	1
Tennessee	0	0	0	3	5	0	135	1
West South Central	0	0	0	0	1	0	2	1
Arkansas	0	0	0	2	5	0	0	2
Louisiana	0	0	0	5	8	0	4	1
Oklahoma	0	0	0	19	1	0	0	2
Texas	0	0	0	0	1	0	4	1
Mountain	0	6	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	29	0	5	6	0	0	8
Montana	0	0	0	0	3	0	0	5
Nevada	0	6	0	1	2	0	0	1
New Mexico	0	0	0	4	1	0	0	1
Utah	0	14	0	1	2	0	8	1
Wyoming	0	0	0	0	3	0	0	4
Pacific Contiguous	0	3	0	1	1	0	1	1
California	0	3	0	1	1	0	1	1
Oregon	0	21	0	4	3	0	0	3
Washington	0	0	0	9	4	0	0	1
Pacific Noncontiguous	0	28	0	4	6	0	0	5
Alaska	0	0	0	222	28	0	0	15
Hawaii	0	28	0	4	6	0	0	1
U.S. Total	0	3	0	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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through October 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	15	0	3	0	0	9
Connecticut	0	41	0	1	0	0	27
Maine	0	6	0	21	0	0	12
Massachusetts	0	27	0	8	0	0	16
New Hampshire	0	30	0	0	0	0	25
Rhode Island	0	37	0	16	0	0	0
Vermont	0	90	0	0	0	0	17
Middle Atlantic	18	14	0	1	18	0	2
New Jersey	0	24	0	2	0	0	0
New York	0	20	0	2	0	0	1
Pennsylvania	18	11	0	1	23	0	11
East North Central	1	12	5	1	7	0	14
Illinois	0	28	0	7	0	0	41
Indiana	0	5	0	3	12	0	32
Michigan	2	13	0	2	0	0	29
Ohio	1	7	21	2	16	0	22
Wisconsin	1	32	0	3	0	0	22
West North Central	1	12	0	6	0	0	10
Iowa	0	19	0	9	0	0	36
Kansas	0	36	0	18	0	0	0
Minnesota	1	31	0	11	0	0	36
Missouri	0	17	0	11	0	0	14
Nebraska	5	53	0	46	0	0	31
North Dakota	0	17	0	36	0	0	24
South Dakota	0	68	0	42	0	0	15
South Atlantic	2	11	7	1	0	0	6
Delaware	0	114	0	6	0	0	0
District of Columbia	0	11,007	0	75	0	0	0
Florida	9	12	0	1	0	0	31
Georgia	3	23	46	3	0	0	11
Maryland	0	57	0	2	0	0	0
North Carolina	1	25	0	1	0	0	7
South Carolina	0	27	0	2	0	0	19
Virginia	0	26	0	3	0	0	16
West Virginia	3	0	0	14	0	0	13
East South Central	0	5	0	1	0	0	4
Alabama	0	32	0	2	0	0	5
Kentucky	0	3	0	3	0	0	6
Mississippi	0	4	0	2	0	0	0
Tennessee	0	1	0	5	0	0	5
West South Central	0	12	0	1	4	0	7
Arkansas	0	22	0	6	0	0	9
Louisiana	0	17	0	2	7	0	15
Oklahoma	0	8	0	3	0	0	11
Texas	0	18	0	1	3	0	21
Mountain	2	14	0	1	5	0	6
Arizona	0	9	0	1	0	0	7
Colorado	0	61	0	3	0	0	28
Idaho	233	0	0	19	0	0	12
Montana	8	73	0	16	63	0	11
Nevada	0	0	0	1	0	0	2
New Mexico	0	124	0	3	0	0	88
Utah	0	3	0	2	0	0	45
Wyoming	5	2	0	7	4	0	36
Pacific Contiguous	0	19	0	1	0	0	2
California	0	22	0	1	0	0	9
Oregon	0	469	0	5	0	0	4
Washington	0	35	0	5	0	0	1
Pacific Noncontiguous	52	1	0	27	0	0	23
Alaska	52	4	0	27	0	0	26
Hawaii	0	1	0	0	0	0	32
U.S. Total	1	2	3	0	3	0	2

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through October 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	4	5	0	0	2
Connecticut	0	0	0	9	12	0	0	1
Maine	0	0	0	9	6	0	0	6
Massachusetts	0	0	0	5	4	0	1	5
New Hampshire	0	0	0	104	21	0	0	2
Rhode Island	0	0	0	11	7	0	0	14
Vermont	0	0	0	12	13	0	0	10
Middle Atlantic	0	0	0	4	2	0	1	1
New Jersey	0	0	0	5	4	0	0	1
New York	0	0	0	5	3	0	2	1
Pennsylvania	0	0	0	13	4	0	0	1
East North Central	0	0	0	2	1	0	2	1
Illinois	0	0	0	3	1	0	0	1
Indiana	0	0	0	5	2	0	0	1
Michigan	0	0	0	5	3	0	10	1
Ohio	0	0	0	3	1	0	0	1
Wisconsin	0	0	0	4	5	0	21	1
West North Central	0	0	0	4	1	0	6	1
Iowa	0	0	0	4	1	0	0	1
Kansas	0	0	0	16	2	0	0	1
Minnesota	0	0	0	5	2	0	5	2
Missouri	0	0	0	16	1	0	0	1
Nebraska	0	0	0	27	2	0	0	3
North Dakota	0	0	0	0	2	0	34	2
South Dakota	0	0	0	150	2	0	0	4
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	21	19	0	0	6
District of Columbia	0	0	0	46	14	0	0	33
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	1	2	0	0	1
Maryland	0	0	0	7	4	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	4	0	0	1
Virginia	0	0	0	2	4	0	0	1
West Virginia	0	0	0	0	0	0	0	3
East South Central	0	0	0	1	3	0	15	1
Alabama	0	0	0	2	5	0	0	1
Kentucky	0	0	0	24	19	0	0	1
Mississippi	0	0	0	1	4	0	0	1
Tennessee	0	0	0	3	5	0	135	1
West South Central	0	0	0	0	1	0	2	1
Arkansas	0	0	0	2	5	0	0	2
Louisiana	0	0	0	5	8	0	4	1
Oklahoma	0	0	0	19	1	0	0	2
Texas	0	0	0	0	1	0	4	1
Mountain	0	6	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	29	0	5	6	0	0	8
Montana	0	0	0	0	3	0	0	5
Nevada	0	6	0	1	2	0	0	1
New Mexico	0	0	0	4	1	0	0	1
Utah	0	14	0	1	2	0	8	1
Wyoming	0	0	0	0	3	0	0	4
Pacific Contiguous	0	3	0	1	1	0	1	1
California	0	3	0	1	1	0	1	1
Oregon	0	21	0	4	3	0	0	3
Washington	0	0	0	9	4	0	0	1
Pacific Noncontiguous	0	28	0	4	6	0	0	5
Alaska	0	0	0	222	28	0	0	15
Hawaii	0	28	0	4	6	0	0	1
U.S. Total	0	3	0	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.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity
by Sector, Census Division and State, October 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	.	1
Middle Atlantic	0	0	0	.	0
New Jersey	0	0	0	.	0
New York	0	0	0	.	0
Pennsylvania	0	1	0	.	0
East North Central	1	1	1	.	0
Illinois	1	1	9	.	1
Indiana	2	1	7	.	1
Michigan	1	5	10	.	2
Ohio	2	2	1	.	1
Wisconsin	3	4	1	.	2
West North Central	2	1	2	.	1
Iowa	4	1	5	.	2
Kansas	4	2	0	.	3
Minnesota	4	2	2	.	3
Missouri	2	1	7	.	2
Nebraska	5	5	16	.	4
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	1	1	1	.	1
Delaware	3	0	7	.	2
District of Columbia	0	0	0	.	0
Florida	3	2	1	.	2
Georgia	69	13	0	.	50
Maryland	1	1	2	.	1
North Carolina	4	1	0	.	3
South Carolina	5	2	0	.	4
Virginia	6	2	1	.	4
West Virginia	0	0	0	.	0
East South Central	2	3	3	.	2
Alabama	0	0	0	.	0
Kentucky	3	4	0	.	2
Mississippi	7	6	14	.	5
Tennessee	0	0	0	.	0
West South Central	3	6	1	.	3
Arkansas	6	12	1	.	5
Louisiana	4	11	0	.	4
Oklahoma	10	18	0	.	9
Texas	4	9	10	.	4
Mountain	0	0	1	.	0
Arizona	0	0	0	.	0
Colorado	1	0	4	.	1
Idaho	0	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	1	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, October 2022**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	55	0	129	0	0	23
Connecticut	0	28	0	0	0	0	56
Maine	0	0	0	0	0	0	0
Massachusetts	0	135	0	509	0	0	37
New Hampshire	0	0	0	0	0	0	177
Rhode Island	0	0	0	0	0	0	0
Vermont	0	90	0	0	0	0	29
Middle Atlantic	0	79	0	6	0	0	1
New Jersey	0	0	0	134	0	0	0
New York	0	80	0	6	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	1	17	0	3	0	0	15
Illinois	0	39	0	13	0	0	41
Indiana	0	5	0	6	0	0	28
Michigan	2	13	0	5	0	0	30
Ohio	7	24	0	6	0	0	27
Wisconsin	0	32	0	3	0	0	24
West North Central	1	12	0	8	0	0	10
Iowa	0	19	0	10	0	0	36
Kansas	0	36	0	19	0	0	0
Minnesota	1	32	0	13	0	0	50
Missouri	0	17	0	18	0	0	14
Nebraska	5	53	0	46	0	0	31
North Dakota	0	17	0	36	0	0	24
South Dakota	0	68	0	43	0	0	15
South Atlantic	2	14	0	1	0	0	7
Delaware	0	0	0	0	0	0	0
Florida	9	13	0	1	0	0	31
Georgia	0	34	0	3	0	0	11
Maryland	0	18	0	0	0	0	0
North Carolina	0	26	0	1	0	0	8
South Carolina	0	46	0	2	0	0	18
Virginia	0	66	0	3	0	0	16
West Virginia	0	0	0	0	0	0	18
East South Central	0	4	0	2	0	0	4
Alabama	0	365	0	5	0	0	5
Kentucky	0	3	0	4	0	0	6
Mississippi	0	81	0	2	0	0	0
Tennessee	0	1	0	5	0	0	6
West South Central	0	11	0	2	0	0	7
Arkansas	0	115	0	6	0	0	9
Louisiana	0	17	0	2	0	0	0
Oklahoma	0	9	0	5	0	0	11
Texas	0	16	0	4	0	0	23
Mountain	2	15	0	1	0	0	6
Arizona	0	9	0	1	0	0	7
Colorado	0	61	0	2	0	0	30
Idaho	0	0	0	22	0	0	13
Montana	0	795	0	19	0	0	11
Nevada	0	0	0	1	0	0	0
New Mexico	0	124	0	4	0	0	88
Utah	0	3	0	2	0	0	47
Wyoming	5	2	0	9	0	0	37
Pacific Contiguous	0	26	0	2	0	0	2
California	0	26	0	1	0	0	8
Oregon	0	1,032	0	10	0	0	4
Washington	0	176	0	7	0	0	1
Pacific Noncontiguous	94	1	0	28	0	0	27
Alaska	94	4	0	28	0	0	27
Hawaii	0	1	0	0	0	0	0
U.S. Total	1	2	0	1	0	0	2

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

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

Electric Utilities by Census Division and State, October 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	12	7	0	0	13
Connecticut	0	0	0	0	0	0	0	15
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	20	15	0	0	28
New Hampshire	0	0	0	0	0	0	0	177
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	4	7	0	0	13
Middle Atlantic	0	0	0	19	19	0	0	2
New Jersey	0	0	0	19	19	0	0	59
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	5	3	0	20	1
Illinois	0	0	0	37	18	0	0	7
Indiana	0	0	0	10	8	0	0	2
Michigan	0	0	0	15	2	0	0	2
Ohio	0	0	0	70	80	0	0	5
Wisconsin	0	0	0	5	8	0	21	2
West North Central	0	0	0	8	1	0	8	1
Iowa	0	0	0	7	1	0	0	1
Kansas	0	0	0	153	5	0	0	2
Minnesota	0	0	0	38	5	0	0	2
Missouri	0	0	0	38	1	0	0	1
Nebraska	0	0	0	77	29	0	0	5
North Dakota	0	0	0	0	5	0	34	2
South Dakota	0	0	0	0	6	0	0	10
South Atlantic	0	0	0	1	2	0	0	0
Delaware	0	0	0	81	81	0	0	16
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	4	4	0	0	1
Maryland	0	0	0	70	70	0	0	0
North Carolina	0	0	0	5	5	0	0	1
South Carolina	0	0	0	72	36	0	0	1
Virginia	0	0	0	3	10	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	21	18	0	0	1
Alabama	0	0	0	39	39	0	0	1
Kentucky	0	0	0	24	20	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	125	125	0	0	1
West South Central	0	0	0	16	4	0	0	1
Arkansas	0	0	0	63	63	0	0	3
Louisiana	0	0	0	33	33	0	0	1
Oklahoma	0	0	0	19	4	0	0	3
Texas	0	0	0	53	8	0	0	3
Mountain	0	20	0	5	2	0	19	1
Arizona	0	0	0	7	7	0	0	1
Colorado	0	0	0	58	2	0	0	1
Idaho	0	0	0	0	30	0	0	11
Montana	0	0	0	0	8	0	0	9
Nevada	0	0	0	5	5	0	0	1
New Mexico	0	0	0	11	2	0	0	1
Utah	0	20	0	0	20	0	41	1
Wyoming	0	0	0	0	4	0	0	4
Pacific Contiguous	0	0	0	10	4	0	0	1
California	0	0	0	10	4	0	0	1
Oregon	0	0	0	88	6	0	0	4
Washington	0	0	0	71	6	0	0	1
Pacific Noncontiguous	0	0	0	16	22	0	0	7
Alaska	0	0	0	222	44	0	0	17
Hawaii	0	0	0	16	13	0	0	1
U.S. Total	0	4	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 October 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	55	0	129	0	0	23
Connecticut	0	28	0	0	0	0	56
Maine	0	0	0	0	0	0	0
Massachusetts	0	135	0	509	0	0	37
New Hampshire	0	0	0	0	0	0	177
Rhode Island	0	0	0	0	0	0	0
Vermont	0	90	0	0	0	0	29
Middle Atlantic	0	79	0	6	0	0	1
New Jersey	0	0	0	134	0	0	0
New York	0	80	0	6	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	1	17	0	3	0	0	15
Illinois	0	39	0	13	0	0	41
Indiana	0	5	0	6	0	0	28
Michigan	2	13	0	5	0	0	30
Ohio	7	24	0	6	0	0	27
Wisconsin	0	32	0	3	0	0	24
West North Central	1	12	0	8	0	0	10
Iowa	0	19	0	10	0	0	36
Kansas	0	36	0	19	0	0	0
Minnesota	1	32	0	13	0	0	50
Missouri	0	17	0	18	0	0	14
Nebraska	5	53	0	46	0	0	31
North Dakota	0	17	0	36	0	0	24
South Dakota	0	68	0	43	0	0	15
South Atlantic	2	14	0	1	0	0	7
Delaware	0	0	0	0	0	0	0
Florida	9	13	0	1	0	0	31
Georgia	0	34	0	3	0	0	11
Maryland	0	18	0	0	0	0	0
North Carolina	0	26	0	1	0	0	8
South Carolina	0	46	0	2	0	0	18
Virginia	0	66	0	3	0	0	16
West Virginia	0	0	0	0	0	0	18
East South Central	0	4	0	2	0	0	4
Alabama	0	365	0	5	0	0	5
Kentucky	0	3	0	4	0	0	6
Mississippi	0	81	0	2	0	0	0
Tennessee	0	1	0	5	0	0	6
West South Central	0	11	0	2	0	0	7
Arkansas	0	115	0	6	0	0	9
Louisiana	0	17	0	2	0	0	0
Oklahoma	0	9	0	5	0	0	11
Texas	0	16	0	4	0	0	23
Mountain	2	15	0	1	0	0	6
Arizona	0	9	0	1	0	0	7
Colorado	0	61	0	2	0	0	30
Idaho	0	0	0	22	0	0	13
Montana	0	795	0	19	0	0	11
Nevada	0	0	0	1	0	0	0
New Mexico	0	124	0	4	0	0	88
Utah	0	3	0	2	0	0	47
Wyoming	5	2	0	9	0	0	37
Pacific Contiguous	0	26	0	2	0	0	2
California	0	26	0	1	0	0	8
Oregon	0	1,032	0	10	0	0	4
Washington	0	176	0	7	0	0	1
Pacific Noncontiguous	94	1	0	28	0	0	27
Alaska	94	4	0	28	0	0	27
Hawaii	0	1	0	0	0	0	0
U.S. Total	1	2	0	1	0	0	2

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

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

Electric Utilities by Census Division and State, Year-to-Date through October 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	12	7	0	0	13
Connecticut	0	0	0	0	0	0	0	15
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	20	15	0	0	28
New Hampshire	0	0	0	0	0	0	0	177
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	4	7	0	0	13
Middle Atlantic	0	0	0	19	19	0	0	2
New Jersey	0	0	0	19	19	0	0	59
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	5	3	0	20	1
Illinois	0	0	0	37	18	0	0	7
Indiana	0	0	0	10	8	0	0	2
Michigan	0	0	0	15	2	0	0	2
Ohio	0	0	0	70	80	0	0	5
Wisconsin	0	0	0	5	8	0	21	2
West North Central	0	0	0	8	1	0	8	1
Iowa	0	0	0	7	1	0	0	1
Kansas	0	0	0	153	5	0	0	2
Minnesota	0	0	0	38	5	0	0	2
Missouri	0	0	0	38	1	0	0	1
Nebraska	0	0	0	77	29	0	0	5
North Dakota	0	0	0	0	5	0	34	2
South Dakota	0	0	0	0	6	0	0	10
South Atlantic	0	0	0	1	2	0	0	0
Delaware	0	0	0	81	81	0	0	16
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	4	4	0	0	1
Maryland	0	0	0	70	70	0	0	0
North Carolina	0	0	0	5	5	0	0	1
South Carolina	0	0	0	72	36	0	0	1
Virginia	0	0	0	3	10	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	21	18	0	0	1
Alabama	0	0	0	39	39	0	0	1
Kentucky	0	0	0	24	20	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	125	125	0	0	1
West South Central	0	0	0	16	4	0	0	1
Arkansas	0	0	0	63	63	0	0	3
Louisiana	0	0	0	33	33	0	0	1
Oklahoma	0	0	0	19	4	0	0	3
Texas	0	0	0	53	8	0	0	3
Mountain	0	20	0	5	2	0	19	1
Arizona	0	0	0	7	7	0	0	1
Colorado	0	0	0	58	2	0	0	1
Idaho	0	0	0	0	30	0	0	11
Montana	0	0	0	0	8	0	0	9
Nevada	0	0	0	5	5	0	0	1
New Mexico	0	0	0	11	2	0	0	1
Utah	0	20	0	0	20	0	41	1
Wyoming	0	0	0	0	4	0	0	4
Pacific Contiguous	0	0	0	10	4	0	0	1
California	0	0	0	10	4	0	0	1
Oregon	0	0	0	88	6	0	0	4
Washington	0	0	0	71	6	0	0	1
Pacific Noncontiguous	0	0	0	16	22	0	0	7
Alaska	0	0	0	222	44	0	0	17
Hawaii	0	0	0	16	13	0	0	1
U.S. Total	0	4	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, October 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	23	0	3	0	0	9
Connecticut	0	89	0	1	0	0	28
Maine	0	6	0	24	0	0	12
Massachusetts	0	20	0	8	0	0	18
New Hampshire	0	418	0	0	0	0	25
Rhode Island	0	36	0	16	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	18	11	0	1	0	0	9
New Jersey	0	23	0	2	0	0	0
New York	0	15	0	2	0	0	9
Pennsylvania	18	12	0	1	0	0	11
East North Central	0	8	21	2	6	0	38
Illinois	0	39	0	8	0	0	101
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	115
Ohio	0	7	21	2	20	0	36
Wisconsin	0	0	0	0	0	0	98
West North Central	0	111	0	12	0	0	67
Iowa	0	40	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	155	0	19	0	0	75
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	9	25	0	2	0	0	8
Delaware	0	114	0	8	0	0	0
Florida	0	0	0	6	0	0	0
Georgia	0	304	0	8	0	0	583
Maryland	0	68	0	2	0	0	0
North Carolina	0	152	0	7	0	0	18
South Carolina	0	24	0	19	0	0	66
Virginia	0	10	0	4	0	0	43
West Virginia	11	0	0	24	0	0	29
East South Central	0	96	0	0	0	0	18
Alabama	0	96	0	0	0	0	0
Kentucky	0	0	0	0	0	0	250
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	17
West South Central	0	33	0	1	0	0	14
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	7	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	53	0	1	0	0	0
Mountain	6	9	0	2	0	0	31
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	10	0	0	76
Idaho	0	0	0	33	0	0	40
Montana	8	29	0	23	0	0	100
Nevada	0	0	0	0	0	0	67
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	52	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	48
Oregon	0	0	0	1	0	0	73
Washington	0	44	0	7	0	0	63
Pacific Noncontiguous	56	0	0	0	0	0	0
Alaska	56	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	2	13	1	4	0	6

Displayed values of zero may 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, October 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	4	5	0	1	2
Connecticut	0	0	0	9	12	0	0	1
Maine	0	0	0	9	7	0	0	7
Massachusetts	0	0	0	5	4	0	1	5
New Hampshire	0	0	0	104	22	0	0	2
Rhode Island	0	0	0	11	7	0	0	14
Vermont	0	0	0	16	19	0	0	14
Middle Atlantic	0	0	0	4	2	0	0	1
New Jersey	0	0	0	6	4	0	0	1
New York	0	0	0	5	3	0	0	1
Pennsylvania	0	0	0	13	4	0	0	1
East North Central	0	0	0	2	1	0	14	1
Illinois	0	0	0	3	1	0	0	1
Indiana	0	0	0	5	2	0	0	1
Michigan	0	0	0	6	5	0	19	1
Ohio	0	0	0	3	1	0	0	1
Wisconsin	0	0	0	9	5	0	0	1
West North Central	0	0	0	4	1	0	0	1
Iowa	0	0	0	4	2	0	0	2
Kansas	0	0	0	16	2	0	0	2
Minnesota	0	0	0	5	3	0	0	5
Missouri	0	0	0	18	2	0	0	1
Nebraska	0	0	0	28	2	0	0	2
North Dakota	0	0	0	0	3	0	0	3
South Dakota	0	0	0	150	1	0	0	1
South Atlantic	0	0	0	1	1	0	0	1
Delaware	0	0	0	21	21	0	0	8
District of Columbia	0	0	0	46	46	0	0	46
Florida	0	0	0	3	2	0	0	4
Georgia	0	0	0	1	1	0	0	5
Maryland	0	0	0	7	4	0	0	1
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	5	0	0	6
Virginia	0	0	0	2	4	0	0	3
West Virginia	0	0	0	0	0	0	0	8
East South Central	0	0	0	1	2	0	0	0
Alabama	0	0	0	2	2	0	0	0
Kentucky	0	0	0	162	68	0	0	44
Mississippi	0	0	0	1	2	0	0	0
Tennessee	0	0	0	3	5	0	0	8
West South Central	0	0	0	0	1	0	0	1
Arkansas	0	0	0	1	3	0	0	0
Louisiana	0	0	0	0	7	0	0	5
Oklahoma	0	0	0	141	2	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	0	7	0	1	1	0	0	1
Arizona	0	0	0	1	2	0	0	1
Colorado	0	0	0	3	2	0	0	3
Idaho	0	29	0	5	7	0	0	12
Montana	0	0	0	0	3	0	0	6
Nevada	0	7	0	1	2	0	0	2
New Mexico	0	0	0	4	2	0	0	2
Utah	0	20	0	1	2	0	0	2
Wyoming	0	0	0	0	3	0	0	3
Pacific Contiguous	0	3	0	1	1	0	0	1
California	0	3	0	1	1	0	0	1
Oregon	0	21	0	4	3	0	0	2
Washington	0	0	0	9	5	0	0	3
Pacific Noncontiguous	0	28	0	4	7	0	0	4
Alaska	0	0	0	0	62	0	0	46
Hawaii	0	28	0	4	7	0	0	3
U.S. Total	0	4	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 October 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	23	0	3	0	0	9
Connecticut	0	89	0	1	0	0	28
Maine	0	6	0	24	0	0	12
Massachusetts	0	20	0	8	0	0	18
New Hampshire	0	418	0	0	0	0	25
Rhode Island	0	36	0	16	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	18	11	0	1	0	0	9
New Jersey	0	23	0	2	0	0	0
New York	0	15	0	2	0	0	9
Pennsylvania	18	12	0	1	0	0	11
East North Central	0	8	21	2	6	0	38
Illinois	0	39	0	8	0	0	101
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	115
Ohio	0	7	21	2	20	0	36
Wisconsin	0	0	0	0	0	0	98
West North Central	0	111	0	12	0	0	67
Iowa	0	40	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	155	0	19	0	0	75
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	9	25	0	2	0	0	8
Delaware	0	114	0	8	0	0	0
Florida	0	0	0	6	0	0	0
Georgia	0	304	0	8	0	0	583
Maryland	0	68	0	2	0	0	0
North Carolina	0	152	0	7	0	0	18
South Carolina	0	24	0	19	0	0	66
Virginia	0	10	0	4	0	0	43
West Virginia	11	0	0	24	0	0	29
East South Central	0	96	0	0	0	0	18
Alabama	0	96	0	0	0	0	0
Kentucky	0	0	0	0	0	0	250
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	17
West South Central	0	33	0	1	0	0	14
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	7	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	53	0	1	0	0	0
Mountain	6	9	0	2	0	0	31
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	10	0	0	76
Idaho	0	0	0	33	0	0	40
Montana	8	29	0	23	0	0	100
Nevada	0	0	0	0	0	0	67
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	52	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	48
Oregon	0	0	0	1	0	0	73
Washington	0	44	0	7	0	0	63
Pacific Noncontiguous	56	0	0	0	0	0	0
Alaska	56	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	2	13	1	4	0	6

Displayed values of zero may 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 October 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	4	5	0	1	2
Connecticut	0	0	0	9	12	0	0	1
Maine	0	0	0	9	7	0	0	7
Massachusetts	0	0	0	5	4	0	1	5
New Hampshire	0	0	0	104	22	0	0	2
Rhode Island	0	0	0	11	7	0	0	14
Vermont	0	0	0	16	19	0	0	14
Middle Atlantic	0	0	0	4	2	0	0	1
New Jersey	0	0	0	6	4	0	0	1
New York	0	0	0	5	3	0	0	1
Pennsylvania	0	0	0	13	4	0	0	1
East North Central	0	0	0	2	1	0	14	1
Illinois	0	0	0	3	1	0	0	1
Indiana	0	0	0	5	2	0	0	1
Michigan	0	0	0	6	5	0	19	1
Ohio	0	0	0	3	1	0	0	1
Wisconsin	0	0	0	9	5	0	0	1
West North Central	0	0	0	4	1	0	0	1
Iowa	0	0	0	4	2	0	0	2
Kansas	0	0	0	16	2	0	0	2
Minnesota	0	0	0	5	3	0	0	5
Missouri	0	0	0	18	2	0	0	1
Nebraska	0	0	0	28	2	0	0	2
North Dakota	0	0	0	0	3	0	0	3
South Dakota	0	0	0	150	1	0	0	1
South Atlantic	0	0	0	1	1	0	0	1
Delaware	0	0	0	21	21	0	0	8
District of Columbia	0	0	0	46	46	0	0	46
Florida	0	0	0	3	2	0	0	4
Georgia	0	0	0	1	1	0	0	5
Maryland	0	0	0	7	4	0	0	1
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	5	0	0	6
Virginia	0	0	0	2	4	0	0	3
West Virginia	0	0	0	0	0	0	0	8
East South Central	0	0	0	1	2	0	0	0
Alabama	0	0	0	2	2	0	0	0
Kentucky	0	0	0	162	68	0	0	44
Mississippi	0	0	0	1	2	0	0	0
Tennessee	0	0	0	3	5	0	0	8
West South Central	0	0	0	0	1	0	0	1
Arkansas	0	0	0	1	3	0	0	0
Louisiana	0	0	0	0	7	0	0	5
Oklahoma	0	0	0	141	2	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	0	7	0	1	1	0	0	1
Arizona	0	0	0	1	2	0	0	1
Colorado	0	0	0	3	2	0	0	3
Idaho	0	29	0	5	7	0	0	12
Montana	0	0	0	0	3	0	0	6
Nevada	0	7	0	1	2	0	0	2
New Mexico	0	0	0	4	2	0	0	2
Utah	0	20	0	1	2	0	0	2
Wyoming	0	0	0	0	3	0	0	3
Pacific Contiguous	0	3	0	1	1	0	0	1
California	0	3	0	1	1	0	0	1
Oregon	0	21	0	4	3	0	0	2
Washington	0	0	0	9	5	0	0	3
Pacific Noncontiguous	0	28	0	4	7	0	0	4
Alaska	0	0	0	0	62	0	0	46
Hawaii	0	28	0	4	7	0	0	3
U.S. Total	0	4	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, October 2022**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	17	0	20	0	0	0
Connecticut	0	13	0	30	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	163	0	30	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	0	55	0	22	0	0	0
New Jersey	0	1,001	0	54	0	0	0
New York	0	117	0	29	0	0	0
Pennsylvania	0	0	0	7	0	0	0
East North Central	28	35	0	8	0	0	436
Illinois	148	56	0	30	0	0	0
Indiana	0	0	0	0	0	0	436
Michigan	0	314	0	7	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	109	0	10	0	0	0
West North Central	0	19	0	0	0	0	0
Iowa	0	0	0	0	0	0	0
Minnesota	0	20	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	944	0	0	0	0	0
South Atlantic	0	11	0	26	0	0	0
District of Columbia	0	11,007	0	75	0	0	0
Florida	0	0	0	83	0	0	0
Georgia	0	36	0	0	0	0	0
Maryland	0	417	0	22	0	0	0
North Carolina	0	994	0	63	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	40	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	40	0	0	0
West South Central	0	115	0	34	0	0	0
Arkansas	0	0	0	148	0	0	0
Louisiana	0	0	0	40	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	115	0	43	0	0	0
Mountain	0	173	0	12	0	0	107
Arizona	0	758	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	43	0	0	0
Utah	0	0	0	0	0	0	173
Pacific Contiguous	0	60	0	4	0	0	633
California	0	36	0	4	0	0	633
Oregon	0	143	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	44	7	0	0	0	0	79
Alaska	44	13	0	0	0	0	79
Hawaii	0	0	0	0	0	0	0
U.S. Total	17	10	0	6	0	0	61

Displayed values of zero may 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, October 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	59	7	0	0	15
Connecticut	0	0	0	90	90	0	0	28
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	77	18	0	0	26
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	15	5	0	4	8
New Jersey	0	0	0	16	9	0	0	12
New York	0	0	0	47	5	0	8	14
Pennsylvania	0	0	0	76	7	0	0	3
East North Central	0	0	0	54	14	0	0	7
Illinois	0	0	0	141	123	0	0	29
Indiana	0	0	0	135	15	0	0	17
Michigan	0	0	0	212	4	0	0	6
Ohio	0	0	0	85	28	0	0	2
Wisconsin	0	0	0	97	27	0	0	13
West North Central	0	0	0	0	17	0	56	5
Iowa	0	0	0	0	16	0	0	2
Kansas	0	0	0	0	136	0	0	136
Minnesota	0	0	0	0	28	0	56	13
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	944
South Atlantic	0	0	0	17	5	0	0	9
Delaware	0	0	0	116	52	0	0	52
District of Columbia	0	0	0	0	0	0	0	38
Florida	0	0	0	63	3	0	0	12
Georgia	0	0	0	106	106	0	0	88
Maryland	0	0	0	44	29	0	0	19
North Carolina	0	0	0	20	20	0	0	35
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	146	4	0	0	2
East South Central	0	0	0	88	88	0	0	38
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	88	88	0	0	38
West South Central	0	0	0	13	20	0	0	32
Arkansas	0	0	0	0	0	0	0	97
Louisiana	0	0	0	0	0	0	0	40
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	75	30	0	0	40
Mountain	0	0	0	22	4	0	0	7
Arizona	0	0	0	47	47	0	0	7
Colorado	0	0	0	54	54	0	0	26
Idaho	0	0	0	0	23	0	0	10
Nevada	0	0	0	28	3	0	0	3
New Mexico	0	0	0	0	362	0	0	43
Utah	0	0	0	0	0	0	0	35
Pacific Contiguous	0	0	0	15	5	0	0	3
California	0	0	0	15	5	0	0	3
Oregon	0	0	0	0	21	0	0	10
Washington	0	0	0	0	49	0	0	49
Pacific Noncontiguous	0	0	0	113	3	0	0	14
Alaska	0	0	0	0	0	0	0	38
Hawaii	0	0	0	113	4	0	0	2
U.S. Total	0	0	0	8	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 October 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	17	0	20	0	0	0
Connecticut	0	13	0	30	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	163	0	30	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	0	55	0	22	0	0	0
New Jersey	0	1,001	0	54	0	0	0
New York	0	117	0	29	0	0	0
Pennsylvania	0	0	0	7	0	0	0
East North Central	28	35	0	8	0	0	436
Illinois	148	56	0	30	0	0	0
Indiana	0	0	0	0	0	0	436
Michigan	0	314	0	7	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	109	0	10	0	0	0
West North Central	0	19	0	0	0	0	0
Iowa	0	0	0	0	0	0	0
Minnesota	0	20	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	944	0	0	0	0	0
South Atlantic	0	11	0	26	0	0	0
District of Columbia	0	11,007	0	75	0	0	0
Florida	0	0	0	83	0	0	0
Georgia	0	36	0	0	0	0	0
Maryland	0	417	0	22	0	0	0
North Carolina	0	994	0	63	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	40	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	40	0	0	0
West South Central	0	115	0	34	0	0	0
Arkansas	0	0	0	148	0	0	0
Louisiana	0	0	0	40	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	115	0	43	0	0	0
Mountain	0	173	0	12	0	0	107
Arizona	0	758	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	43	0	0	0
Utah	0	0	0	0	0	0	173
Pacific Contiguous	0	60	0	4	0	0	633
California	0	36	0	4	0	0	633
Oregon	0	143	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	44	7	0	0	0	0	79
Alaska	44	13	0	0	0	0	79
Hawaii	0	0	0	0	0	0	0
U.S. Total	17	10	0	6	0	0	61

Displayed values of zero may 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 October 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	59	7	0	0	15
Connecticut	0	0	0	90	90	0	0	28
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	77	18	0	0	26
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	15	5	0	4	8
New Jersey	0	0	0	16	9	0	0	12
New York	0	0	0	47	5	0	8	14
Pennsylvania	0	0	0	76	7	0	0	3
East North Central	0	0	0	54	14	0	0	7
Illinois	0	0	0	141	123	0	0	29
Indiana	0	0	0	135	15	0	0	17
Michigan	0	0	0	212	4	0	0	6
Ohio	0	0	0	85	28	0	0	2
Wisconsin	0	0	0	97	27	0	0	13
West North Central	0	0	0	0	17	0	56	5
Iowa	0	0	0	0	16	0	0	2
Kansas	0	0	0	0	136	0	0	136
Minnesota	0	0	0	0	28	0	56	13
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	944
South Atlantic	0	0	0	17	5	0	0	9
Delaware	0	0	0	116	52	0	0	52
District of Columbia	0	0	0	0	0	0	0	38
Florida	0	0	0	63	3	0	0	12
Georgia	0	0	0	106	106	0	0	88
Maryland	0	0	0	44	29	0	0	19
North Carolina	0	0	0	20	20	0	0	35
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	146	4	0	0	2
East South Central	0	0	0	88	88	0	0	38
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	88	88	0	0	38
West South Central	0	0	0	13	20	0	0	32
Arkansas	0	0	0	0	0	0	0	97
Louisiana	0	0	0	0	0	0	0	40
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	75	30	0	0	40
Mountain	0	0	0	22	4	0	0	7
Arizona	0	0	0	47	47	0	0	7
Colorado	0	0	0	54	54	0	0	26
Idaho	0	0	0	0	23	0	0	10
Nevada	0	0	0	28	3	0	0	3
New Mexico	0	0	0	0	362	0	0	43
Utah	0	0	0	0	0	0	0	35
Pacific Contiguous	0	0	0	15	5	0	0	3
California	0	0	0	15	5	0	0	3
Oregon	0	0	0	0	21	0	0	10
Washington	0	0	0	0	49	0	0	49
Pacific Noncontiguous	0	0	0	113	3	0	0	14
Alaska	0	0	0	0	0	0	0	38
Hawaii	0	0	0	113	4	0	0	2
U.S. Total	0	0	0	8	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, October 2022**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	10	0	15	0	0	63
Connecticut	0	0	0	21	0	0	0
Maine	0	12	0	30	0	0	63
Massachusetts	0	200	0	18	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	1,725	0	54	0	0	0
Middle Atlantic	0	23	0	6	18	0	38
New Jersey	0	0	0	13	0	0	0
New York	0	8	0	7	0	0	38
Pennsylvania	0	51	0	8	23	0	0
East North Central	9	38	0	7	11	0	46
Illinois	7	0	0	21	0	0	0
Indiana	0	46	0	10	12	0	0
Michigan	197	0	0	14	0	0	204
Ohio	0	0	0	18	0	0	0
Wisconsin	64	89	0	13	0	0	47
West North Central	6	7	0	8	0	0	0
Iowa	2	339	0	8	0	0	0
Kansas	0	0	0	49	0	0	0
Minnesota	70	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	17	0	0	0	0	0	0
North Dakota	78	0	0	0	0	0	0
South Dakota	0	0	0	86	0	0	0
South Atlantic	50	15	46	6	0	0	22
Delaware	0	0	0	0	0	0	0
Florida	165	52	0	17	0	0	0
Georgia	126	26	46	15	0	0	50
Maryland	0	0	0	0	0	0	0
North Carolina	21	56	0	5	0	0	690
South Carolina	0	0	0	11	0	0	0
Virginia	0	10	0	11	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	21	20	0	11	0	0	0
Alabama	261	29	0	20	0	0	0
Kentucky	0	0	0	15	0	0	0
Mississippi	0	0	0	29	0	0	0
Tennessee	0	0	0	10	0	0	0
West South Central	0	26	0	2	5	0	0
Arkansas	0	1,028	0	48	0	0	0
Louisiana	0	0	0	3	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	6	0	3	7	0	0
Mountain	26	0	0	3	5	0	0
Colorado	0	0	0	0	0	0	0
Idaho	233	0	0	30	0	0	0
Montana	128	0	0	47	362	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	26	0	0	5	4	0	0
Pacific Contiguous	0	43	0	2	0	0	0
California	0	1,089	0	2	0	0	0
Oregon	0	0	0	30	0	0	0
Washington	0	40	0	4	0	0	0
Pacific Noncontiguous	0	2	0	0	0	0	86
Alaska	0	9	0	0	0	0	0
Hawaii	0	0	0	0	0	0	86
U.S. Total	7	5	15	2	4	0	17

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

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

Industrial Sector by Census Division and State, October 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	74	11	0	0	9
Connecticut	0	0	0	547	547	0	0	21
Maine	0	0	0	0	11	0	0	11
Massachusetts	0	0	0	74	73	0	0	18
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	54
Middle Atlantic	0	0	0	43	10	0	0	5
New Jersey	0	0	0	81	81	0	0	10
New York	0	0	0	73	23	0	0	7
Pennsylvania	0	0	0	69	11	0	0	6
East North Central	0	0	0	0	7	0	0	4
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	21	0	0	7
Michigan	0	0	0	0	12	0	0	9
Ohio	0	0	0	0	13	0	0	8
Wisconsin	0	0	0	0	10	0	0	11
West North Central	0	0	0	0	5	0	0	4
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	240	0	0	49
Minnesota	0	0	0	0	0	0	0	13
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	17
North Dakota	0	0	0	0	1,644	0	0	51
South Dakota	0	0	0	0	96	0	0	64
South Atlantic	0	0	0	76	4	0	1	3
Delaware	0	0	0	0	52	0	0	0
Florida	0	0	0	109	8	0	1	8
Georgia	0	0	0	0	6	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	7	0	0	6
South Carolina	0	0	0	107	4	0	0	4
Virginia	0	0	0	0	0	0	0	5
West Virginia	0	0	0	0	0	0	0	7
East South Central	0	0	0	0	5	0	135	5
Alabama	0	0	0	0	7	0	0	9
Kentucky	0	0	0	0	29	0	0	17
Mississippi	0	0	0	0	6	0	0	10
Tennessee	0	0	0	0	11	0	135	6
West South Central	0	0	0	73	6	0	4	2
Arkansas	0	0	0	112	9	0	0	11
Louisiana	0	0	0	0	9	0	4	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	90	15	0	7	3
Mountain	0	0	0	41	4	0	0	4
Arizona	0	0	0	56	56	0	0	56
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	118	1	0	0	10
Montana	0	0	0	0	0	0	0	41
Nevada	0	0	0	57	57	0	0	2
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	7
Pacific Contiguous	0	0	0	19	9	0	4	2
California	0	0	0	19	12	0	4	2
Oregon	0	0	0	0	20	0	0	18
Washington	0	0	0	0	12	0	0	6
Pacific Noncontiguous	0	0	0	0	0	0	0	16
Alaska	0	0	0	0	0	0	0	4
Hawaii	0	0	0	0	0	0	0	25
U.S. Total	0	0	0	15	3	0	1	1

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

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

Industrial Sector by Census Division and State, Year-to-Date through October 2022

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	10	0	15	0	0	63
Connecticut	0	0	0	21	0	0	0
Maine	0	12	0	30	0	0	63
Massachusetts	0	200	0	18	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	1,725	0	54	0	0	0
Middle Atlantic	0	23	0	6	18	0	38
New Jersey	0	0	0	13	0	0	0
New York	0	8	0	7	0	0	38
Pennsylvania	0	51	0	8	23	0	0
East North Central	9	38	0	7	11	0	46
Illinois	7	0	0	21	0	0	0
Indiana	0	46	0	10	12	0	0
Michigan	197	0	0	14	0	0	204
Ohio	0	0	0	18	0	0	0
Wisconsin	64	89	0	13	0	0	47
West North Central	6	7	0	8	0	0	0
Iowa	2	339	0	8	0	0	0
Kansas	0	0	0	49	0	0	0
Minnesota	70	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	17	0	0	0	0	0	0
North Dakota	78	0	0	0	0	0	0
South Dakota	0	0	0	86	0	0	0
South Atlantic	50	15	46	6	0	0	22
Delaware	0	0	0	0	0	0	0
Florida	165	52	0	17	0	0	0
Georgia	126	26	46	15	0	0	50
Maryland	0	0	0	0	0	0	0
North Carolina	21	56	0	5	0	0	690
South Carolina	0	0	0	11	0	0	0
Virginia	0	10	0	11	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	21	20	0	11	0	0	0
Alabama	261	29	0	20	0	0	0
Kentucky	0	0	0	15	0	0	0
Mississippi	0	0	0	29	0	0	0
Tennessee	0	0	0	10	0	0	0
West South Central	0	26	0	2	5	0	0
Arkansas	0	1,028	0	48	0	0	0
Louisiana	0	0	0	3	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	6	0	3	7	0	0
Mountain	26	0	0	3	5	0	0
Colorado	0	0	0	0	0	0	0
Idaho	233	0	0	30	0	0	0
Montana	128	0	0	47	362	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	26	0	0	5	4	0	0
Pacific Contiguous	0	43	0	2	0	0	0
California	0	1,089	0	2	0	0	0
Oregon	0	0	0	30	0	0	0
Washington	0	40	0	4	0	0	0
Pacific Noncontiguous	0	2	0	0	0	0	86
Alaska	0	9	0	0	0	0	0
Hawaii	0	0	0	0	0	0	86
U.S. Total	7	5	15	2	4	0	17

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

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

Industrial Sector by Census Division and State, Year-to-Date through October 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	74	11	0	0	9
Connecticut	0	0	0	547	547	0	0	21
Maine	0	0	0	0	11	0	0	11
Massachusetts	0	0	0	74	73	0	0	18
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	54
Middle Atlantic	0	0	0	43	10	0	0	5
New Jersey	0	0	0	81	81	0	0	10
New York	0	0	0	73	23	0	0	7
Pennsylvania	0	0	0	69	11	0	0	6
East North Central	0	0	0	0	7	0	0	4
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	21	0	0	7
Michigan	0	0	0	0	12	0	0	9
Ohio	0	0	0	0	13	0	0	8
Wisconsin	0	0	0	0	10	0	0	11
West North Central	0	0	0	0	5	0	0	4
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	240	0	0	49
Minnesota	0	0	0	0	0	0	0	13
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	17
North Dakota	0	0	0	0	1,644	0	0	51
South Dakota	0	0	0	0	96	0	0	64
South Atlantic	0	0	0	76	4	0	1	3
Delaware	0	0	0	0	52	0	0	0
Florida	0	0	0	109	8	0	1	8
Georgia	0	0	0	0	6	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	7	0	0	6
South Carolina	0	0	0	107	4	0	0	4
Virginia	0	0	0	0	0	0	0	5
West Virginia	0	0	0	0	0	0	0	7
East South Central	0	0	0	0	5	0	135	5
Alabama	0	0	0	0	7	0	0	9
Kentucky	0	0	0	0	29	0	0	17
Mississippi	0	0	0	0	6	0	0	10
Tennessee	0	0	0	0	11	0	135	6
West South Central	0	0	0	73	6	0	4	2
Arkansas	0	0	0	112	9	0	0	11
Louisiana	0	0	0	0	9	0	4	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	90	15	0	7	3
Mountain	0	0	0	41	4	0	0	4
Arizona	0	0	0	56	56	0	0	56
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	118	1	0	0	10
Montana	0	0	0	0	0	0	0	41
Nevada	0	0	0	57	57	0	0	2
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	7
Pacific Contiguous	0	0	0	19	9	0	4	2
California	0	0	0	19	12	0	4	2
Oregon	0	0	0	0	20	0	0	18
Washington	0	0	0	0	12	0	0	6
Pacific Noncontiguous	0	0	0	0	0	0	0	16
Alaska	0	0	0	0	0	0	0	4
Hawaii	0	0	0	0	0	0	0	25
U.S. Total	0	0	0	15	3	0	1	1

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

**Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers
by End-Use Sector, Census Division, and State, October 2022**

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	1	1	0
Connecticut	0	1	1	2	0
Maine	1	1	0	0	0
Massachusetts	1	1	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	2	1	0	1
Michigan	0	0	1	0	0
Ohio	1	0	1	0	0
Wisconsin	0	0	2	0	1
West North Central	1	0	1	0	0
Iowa	1	0	2	0	1
Kansas	2	1	3	0	1
Minnesota	0	0	3	0	1
Missouri	1	1	2	0	1
Nebraska	1	0	3	0	1
North Dakota	1	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	0
Georgia	2	0	2	0	1
Maryland	0	0	1	0	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	1	1	0	1
Kentucky	2	2	1	0	1
Mississippi	2	1	2	0	1
Tennessee	1	2	2	0	1
West South Central	1	1	1	0	1
Arkansas	2	1	2	0	1
Louisiana	2	0	1	0	1
Oklahoma	2	0	2	0	1
Texas	2	1	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	0	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	0	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, October 2022**

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	1	1	0
Connecticut	0	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	2
Middle Atlantic	0	0	0	0	0
New Jersey	0	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	0	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	0	1	0	0
Kansas	2	1	3	0	1
Minnesota	1	0	1	0	0
Missouri	1	2	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	1	2	1	0	1
Mississippi	3	2	3	0	1
Tennessee	1	2	2	0	1
West South Central	1	1	1	0	1
Arkansas	2	1	2	0	1
Louisiana	2	1	1	0	1
Oklahoma	2	1	2	0	1
Texas	2	1	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

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	1	0	0
Connecticut	1	1	2	1	0
Maine	1	0	0	0	0
Massachusetts	1	0	2	0	0
New Hampshire	1	0	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	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	2	1	0	1
Michigan	0	0	1	0	0
Ohio	1	0	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	0	0	1	0	0
North Carolina	2	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	2	0	1
Kentucky	2	2	2	0	1
Mississippi	3	2	3	0	2
Tennessee	1	2	2	0	1
West South Central	2	1	1	0	1
Arkansas	3	2	2	0	1
Louisiana	2	1	1	0	1
Oklahoma	2	1	3	0	1
Texas	2	1	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	1	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	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 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 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	04/10/2022 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	04/11/2022 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

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: Bexar 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	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 5:00 AM	02/17/2021 4:00 PM	59 Hours, 0 Minutes	Arkansas Electric Coop Corp	SERC	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 5:27 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 appear 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 appear 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 appear 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	Evergy	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 appear 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 appear 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 appear 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 appear 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 appear 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	Evergy	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 appear 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; 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	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	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 appear 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

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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

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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

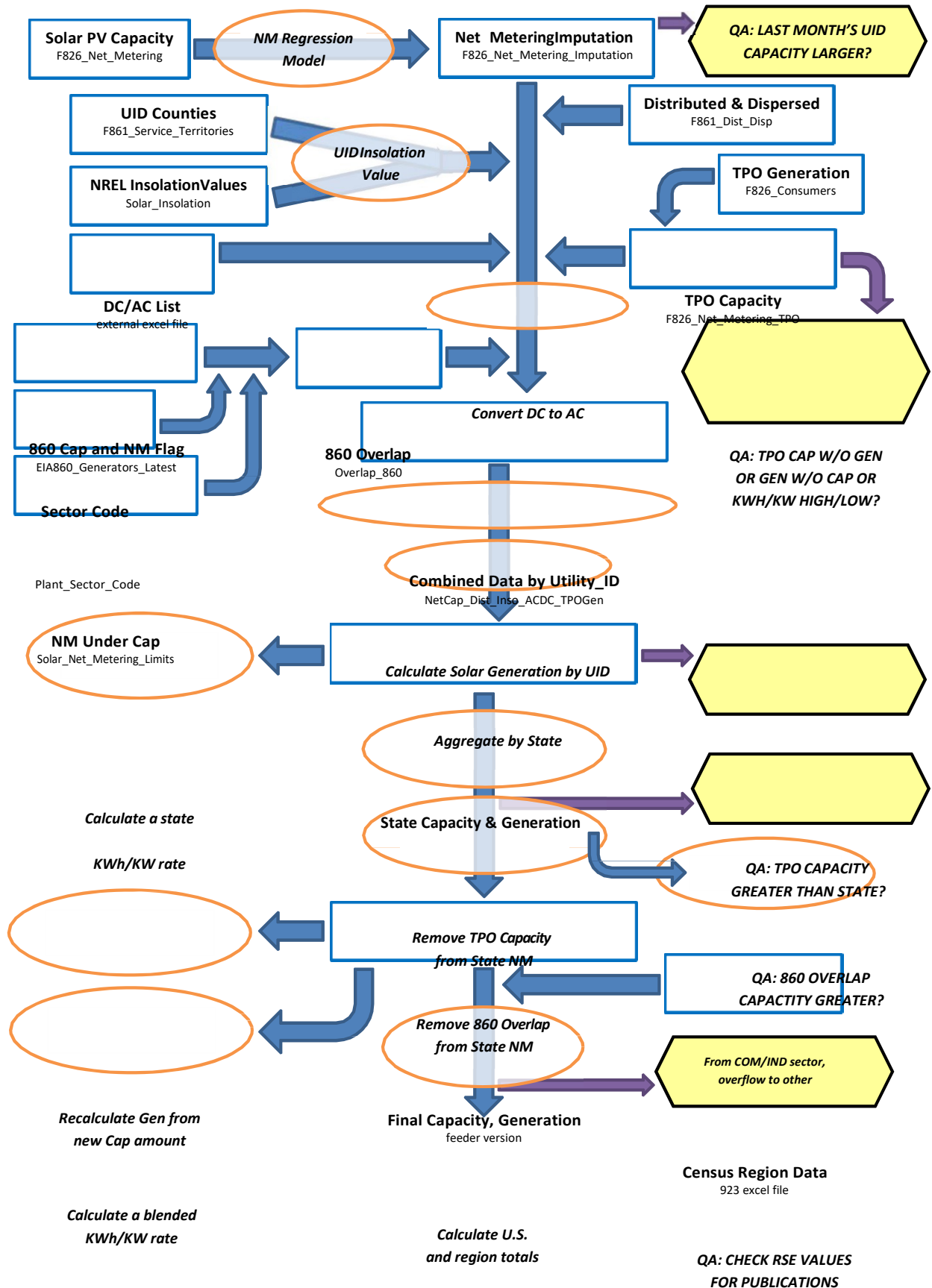
TMY3 (1991-2005) Weather Stations by MSA

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 McAllen 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, October 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	19.06	6.29	--	1.03
Connecticut	--	5.80	--	1.03
Maine	19.06	6.28	--	1.04
Massachusetts	--	6.30	--	1.03
New Hampshire	--	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	18.44	6.22	--	1.03
New Jersey	--	--	--	1.03
New York	--	6.24	--	1.03
Pennsylvania	18.44	5.98	--	1.04
East North Central	20.33	5.80	27.28	1.05
Illinois	17.72	5.80	--	1.04
Indiana	22.46	5.76	--	1.06
Michigan	18.76	5.88	27.32	1.05
Ohio	24.95	5.80	--	1.06
Wisconsin	18.05	5.79	26.50	1.03
West North Central	16.57	5.79	28.00	1.05
Iowa	17.49	5.71	28.00	1.08
Kansas	17.23	5.76	--	1.01
Minnesota	17.66	5.88	--	1.07
Missouri	17.73	5.76	--	1.03
Nebraska	17.18	5.78	--	1.06
North Dakota	13.01	5.87	--	0.97
South Dakota	16.48	--	--	1.08
South Atlantic	24.11	5.91	28.49	1.03
Delaware	--	--	--	1.03
District of Columbia	--	--	--	--
Florida	23.66	5.81	28.49	1.03
Georgia	19.66	5.93	--	1.03
Maryland	24.49	--	--	1.04
North Carolina	25.34	5.81	--	1.03
South Carolina	24.79	6.08	--	1.03
Virginia	25.64	5.99	--	1.04
West Virginia	25.19	5.86	--	1.08
East South Central	20.65	5.80	--	1.03
Alabama	18.10	--	--	1.03
Kentucky	22.21	5.82	--	1.03
Mississippi	13.04	5.82	--	1.02
Tennessee	23.77	5.77	--	1.01
West South Central	16.25	5.91	29.84	1.02
Arkansas	17.63	5.86	--	1.03
Louisiana	17.34	--	29.84	1.03
Oklahoma	17.53	6.00	--	1.04
Texas	15.68	5.86	--	1.02
Mountain	18.16	5.79	--	1.04
Arizona	18.18	5.80	--	1.03
Colorado	18.37	5.67	--	1.08
Idaho	--	--	--	1.00
Montana	17.16	5.92	--	1.04
Nevada	18.82	5.83	--	1.04
New Mexico	18.02	--	--	1.02
Utah	21.19	5.74	--	1.04
Wyoming	17.48	5.78	--	1.05
Pacific Contiguous	17.75	--	--	1.04
California	21.90	--	--	1.03
Oregon	--	--	--	1.04
Washington	16.89	--	--	1.08
Pacific Noncontiguous	14.51	6.14	--	1.00
Alaska	14.51	5.60	--	1.00
Hawaii	--	6.14	--	--
U.S. Total	18.91	6.11	28.18	1.03

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

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

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

'Natural Gas' includes a small amount of supplemental gaseous fuels.

Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.

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

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