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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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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
Fuel	Facility Type				Electric Utilities		Independent Power Producers							
		September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	60,006	64,998	-7.7%	46,727	49,704	12,903	14,860	14	30	362	404	0	0
Petroleum Liquids	Utility Scale Facilities	985	942	4.6%	733	680	211	210	5	5	36	47	0	0
Petroleum Coke	Utility Scale Facilities	635	648	-2.0%	441	480	166	140	0	0	NM	29	0	0
Natural Gas	Utility Scale Facilities	164,466	156,948	4.8%	80,467	75,975	74,787	72,435	767	696	8,446	7,842	0	0
Other Gas	Utility Scale Facilities	951	987	-3.6%	0	0	277	306	0	0	674	680	0	0
Nuclear	Utility Scale Facilities	65,560	63,733	2.9%	37,575	35,914	27,985	27,819	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	16,496	17,026	-3.1%	14,782	15,593	1,634	1,354	NM	18	66	60	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	48,806	46,126	5.8%	7,144	7,336	39,518	36,449	370	396	1,775	1,945	0	0
... Wind	Utility Scale Facilities	28,193	27,331	3.2%	4,848	5,420	23,330	21,896	8	10	NM	6	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	15,530	13,287	16.9%	1,942	1,490	13,498	11,709	60	61	29	26	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	2,477	2,864	-13.5%	209	263	570	730	12	12	1,686	1,860	0	0
... Other Biomass	Utility Scale Facilities	1,256	1,315	-4.5%	79	78	835	871	291	313	51	53	0	0
... Geothermal	Utility Scale Facilities	1,351	1,329	1.6%	66	66	1,285	1,243	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-544	-598	-9.1%	-415	-493	-129	-105	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	775	845	-8.3%	26	33	213	275	258	272	278	265	0	0
All Energy Sources	Utility Scale Facilities	358,136	351,655	1.8%	187,477	185,223	157,566	153,744	1,428	1,417	11,665	11,272	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	6,663	5,544	20.2%	0	0	0	0	1,791	1,608	403	368	4,469	3,569
Estimated Total Solar Photovoltaic	All Facilities	21,899	18,546	18.1%	1,942	1,488	13,205	11,426	1,851	1,668	433	395	4,469	3,569
Estimated Total Solar	All Facilities	22,193	18,831	17.9%	1,942	1,490	13,498	11,709	1,851	1,668	433	395	4,469	3,569
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	34,237	37,302	-8.2%	26,193	28,179	7,917	8,983	5	9	122	130	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,741	1,738	0.2%	1,328	1,341	361	335	13	12	39	49	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	226	280	-19.5%	175	210	42	60	0	0	9	10	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,212,591	1,149,683	5.5%	614,297	579,459	542,387	517,292	4,616	4,325	51,292	48,606	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	766	905	-15.3%	145	190	37	57	25	38	558	621	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	222	302	-26.4%	4	4	25	28	21	10	172	259	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	53	49	7.1%	0	1	7	8	0	0	46	40	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	99,121	96,584	2.6%	4,377	3,583	25,533	24,804	5,773	5,816	63,438	62,381	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	35,003	38,207	-8.4%	26,338	28,369	7,955	9,040	30	47	680	751	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,963	2,040	-3.8%	1,331	1,345	386	364	34	23	211	308	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	278	330	-15.6%	175	211	49	68	0	0	54	51	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,311,712	1,246,267	5.3%	618,673	583,042	567,920	542,096	10,389	10,141	114,730	110,987	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	117,105	80,205	46.0%	96,635	67,442	19,952	11,912	48	114	470	737	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	28,038	23,902	17.3%	15,034	14,704	11,193	7,780	316	351	1,495	1,067	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	571	628	-9.0%	273	397	6	8	1	2	292	221	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for September									
Sector	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
	September 2023	September 2022	Percentage Change	September 2023	September 2022	Percentage Change	September 2023	September 2022	Percentage Change
Residential	133,109	129,241	3.0%	21,683	20,930	3.6%	16.29	16.19	0.6%
Commercial	123,274	124,195	-0.7%	16,334	16,492	-1.0%	13.25	13.28	-0.2%
Industrial	85,764	86,550	-0.9%	7,315	7,841	-6.7%	8.53	9.06	-5.8%
Transportation	655	558	17.4%	93	70	32.7%	14.20	12.57	13.0%
All Sectors	342,801	340,544	0.7%	45,425	45,333	0.2%	13.25	13.31	-0.5%

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.
Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.
Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.
Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.
Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.
Sales of electricity to ultimate customers and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).
Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2023 and 2022

Net Generation and Consumption of Fuels for January through September														
Fuel	Facility Type	Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
		September 2023 YTD	September 2022 YTD	Percentage Change	Electric Utilities		Independent Power Producers		September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
					September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD						
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	516,575	647,525	-20.2%	399,219	483,468	113,913	159,921	137	202	3,306	3,935	0	0
Petroleum Liquids	Utility Scale Facilities	8,744	10,647	-17.9%	6,320	6,432	1,984	3,750	52	73	388	392	0	0
Petroleum Coke	Utility Scale Facilities	4,071	5,205	-21.8%	2,704	3,861	1,121	1,058	1	8	245	277	0	0
Natural Gas	Utility Scale Facilities	1,378,547	1,285,336	7.3%	687,048	635,202	612,224	571,716	6,295	5,990	72,979	72,428	0	0
Other Gas	Utility Scale Facilities	8,475	8,866	-4.4%	0	0	2,394	2,676	0	0	6,081	6,190	0	0
Nuclear	Utility Scale Facilities	582,789	581,456	0.2%	334,098	323,901	248,691	257,555	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	184,509	202,094	-8.7%	167,368	185,324	16,273	15,866	188	210	680	694	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	491,894	489,577	0.5%	74,986	77,121	396,162	390,169	3,424	3,691	17,323	18,596	0	0
... Wind	Utility Scale Facilities	312,859	321,674	-2.7%	54,121	58,893	258,530	262,560	115	128	92	94	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	130,696	116,675	12.0%	17,514	14,209	112,392	101,697	530	548	260	221	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	24,187	26,969	-10.3%	1,952	2,484	5,772	6,650	80	146	16,383	17,689	0	0
... Other Biomass	Utility Scale Facilities	11,927	12,349	-3.4%	752	754	7,889	8,133	2,699	2,870	588	592	0	0
... Geothermal	Utility Scale Facilities	12,225	11,910	2.6%	647	782	11,578	11,127	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-4,680	-4,550	2.9%	-3,627	-3,546	-1,053	-1,004	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	7,409	8,530	-13.1%	171	409	2,366	2,697	2,359	2,537	2,512	2,886	0	0
All Energy Sources	Utility Scale Facilities	3,178,332	3,234,686	-1.7%	1,668,286	1,712,173	1,394,076	1,404,403	12,457	12,711	103,514	105,399	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	58,121	48,526	19.8%	0	0	0	0	15,718	14,247	3,512	3,230	38,891	31,049
Estimated Total Solar Photovoltaic	All Facilities	186,526	162,739	14.6%	17,514	14,181	110,102	99,262	16,248	14,795	3,772	3,452	38,891	31,049
Estimated Total Solar	All Facilities	188,817	165,202	14.3%	17,514	14,209	112,392	101,697	16,248	14,795	3,772	3,452	38,891	31,049
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	295,350	365,970	-19.3%	223,952	271,123	70,238	93,518	46	61	1,114	1,267	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	15,567	19,369	-19.6%	11,713	12,544	3,299	6,229	134	184	421	412	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,516	2,199	-31.0%	1,122	1,647	312	451	0	2	82	98	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	10,138,595	9,468,293	7.1%	5,240,218	4,879,758	4,413,458	4,103,166	38,528	36,912	446,391	448,456	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	7,232	8,501	-14.9%	1,202	1,687	427	565	251	318	5,352	5,931	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,400	2,895	-17.1%	52	75	244	284	206	333	1,898	2,203	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	473	527	-10.2%	8	16	86	67	2	11	377	433	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	905,351	908,267	-0.3%	39,204	34,838	230,143	232,842	53,651	56,918	582,353	583,670	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	302,582	374,472	-19.2%	225,154	272,810	70,665	94,083	297	380	6,465	7,199	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	17,967	22,264	-19.3%	11,765	12,619	3,542	6,513	340	517	2,319	2,615	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,990	2,726	-27.0%	1,130	1,663	399	518	2	14	459	531	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	11,043,946	10,376,560	6.4%	5,279,422	4,914,596	4,643,601	4,336,007	92,179	93,830	1,028,744	1,032,126	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through September									
Sector	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	Percentage Change
Residential	1,129,162	1,174,887	-3.9%	180,311	175,350	2.8%	15.97	14.92	7.0%
Commercial	1,041,627	1,058,234	-1.6%	133,260	131,007	1.7%	12.79	12.38	3.3%
Industrial	765,911	771,894	-0.8%	62,301	64,101	-2.8%	8.13	8.30	-2.0%
Transportation	5,137	4,925	4.3%	654	571	14.6%	12.73	11.59	9.8%
All Sectors	2,941,837	3,009,940	-2.3%	376,526	371,029	1.5%	12.80	12.33	3.8%

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, 2023 and 2022

Total (All Sectors)												
Fuel	Receipts						Year-to-Date					
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)			
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
Coal (1000 tons)	34,356	41,593	47.81	47.42	184	223	321,635	353,104	47.58	43.68		
Petroleum Liquids (1000 barrels)	1,231	1,356	138.68	147.96	100	174	12,442	13,479	121.39	145.02		
Petroleum Coke (1000 tons)	118	134	104.81	66.08	3	3	1,091	1,724	118.33	127.71		
Natural Gas (1000 Mcf)	1,102,086	1,145,493	2.94	8.42	593	812	9,266,015	9,510,416	3.52	7.56		

Electric Utilities												
Fuel	Receipts						Year-to-Date					
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)			
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
Coal (1000 tons)	28,434	31,443	49.57	49.50	139	158	245,218	259,680	49.07	44.82		
Petroleum Liquids (1000 barrels)	933	966	139.48	150.60	67	112	9,090	8,948	122.12	148.28		
Petroleum Coke (1000 tons)	118	134	104.81	66.08	3	3	1,091	1,724	118.33	127.71		
Natural Gas (1000 Mcf)	528,891	560,966	3.40	8.81	305	439	4,538,568	4,742,948	4.03	7.83		

Independent Power Producers												
Fuel	Receipts						Year-to-Date					
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)			
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
Coal (1000 tons)	7,491	9,589	40.04	39.62	34	50	71,758	88,328	41.28	39.68		
Petroleum Liquids (1000 barrels)	274	358	139.09	143.49	24	53	2,984	4,255	121.47	139.55		
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--		
Natural Gas (1000 Mcf)	510,024	519,483	2.37	7.86	242	324	4,154,920	4,148,049	2.93	7.28		

Commercial Sector												
Fuel	Receipts						Year-to-Date					
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)			
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
Coal (1000 tons)	0	5	--	97.46	0	1	2	9	96.90	94.10		
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--		
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--		
Natural Gas (1000 Mcf)	597	738	3.21	4.73	3	3	5,894	6,231	3.11	4.11		

Industrial Sector												
Fuel	Receipts						Year-to-Date					
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)			
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
Coal (1000 tons)	431	556	75.33	63.58	11	14	4,657	5,088	66.24	54.39		
Petroleum Liquids (1000 barrels)	25	33	104.23	112.79	9	9	367	276	102.82	108.04		
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--		
Natural Gas (1000 Mcf)	62,573	64,306	2.88	8.63	43	46	566,632	613,188	3.06	6.95		

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, 2023 and 2022

Total (All Sectors)											
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost		
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)		
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	
Coal	648,869	786,290	2.53	2.51	184	223	6,071,329	6,672,146	2.52	2.31	
Petroleum Liquids	7,546	8,245	22.60	24.33	100	174	75,722	81,472	19.93	23.98	
Petroleum Coke	3,289	3,818	3.76	2.32	3	3	30,656	48,763	4.21	4.51	
Natural Gas	1,135,269	1,184,368	2.86	8.15	593	812	9,561,351	9,815,720	3.41	7.32	
Fossil Fuels	1,794,973	1,982,722	2.82	5.81	706	955	15,739,057	16,618,101	3.13	5.27	

Electric Utilities											
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost		
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)		
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	
Coal	506,645	599,306	2.59	2.60	139	158	4,685,746	4,945,129	2.57	2.35	
Petroleum Liquids	5,729	5,857	22.71	24.83	67	112	55,292	54,151	20.08	24.90	
Petroleum Coke	3,289	3,818	3.76	2.32	3	3	30,656	48,763	4.21	4.51	
Natural Gas	543,579	579,405	3.31	8.53	305	439	4,676,007	4,889,067	3.91	7.60	
Fossil Fuels	1,059,242	1,188,387	3.07	5.58	390	535	9,447,701	9,937,111	3.34	5.06	

Independent Power Producers											
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost		
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)		
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	
Coal	133,508	175,484	2.25	2.16	34	50	1,292,437	1,621,975	2.29	2.16	
Petroleum Liquids	1,684	2,185	22.77	23.44	24	53	18,188	25,625	19.85	23.14	
Petroleum Coke	0	0	--	--	0	0	0	0	--	--	
Natural Gas	526,671	538,145	2.29	7.58	242	324	4,296,791	4,290,371	2.83	7.04	
Fossil Fuels	661,843	715,815	2.34	6.04	268	369	5,607,416	5,937,971	2.75	5.55	

Commercial Sector											
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost		
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)		
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	
Coal	0	106	--	4.28	0	1	43	199	4.28	4.13	
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--	
Petroleum Coke	0	0	--	--	0	0	0	0	--	--	
Natural Gas	619	766	3.10	4.56	3	3	6,096	6,473	3.00	3.96	
Fossil Fuels	619	872	3.10	4.53	3	3	6,139	6,672	3.01	3.96	

Industrial Sector											
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost		
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)		
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	
Coal	8,716	11,393	3.73	3.10	11	14	93,104	104,843	3.31	2.64	
Petroleum Liquids	154	202	16.85	18.30	9	9	2,241	1,696	16.85	17.57	
Petroleum Coke	0	0	--	--	0	0	0	0	--	--	
Natural Gas	64,400	66,052	2.80	8.40	43	46	582,457	629,808	2.97	6.76	
Fossil Fuels	73,269	77,648	2.94	7.65	45	48	677,802	736,347	3.07	6.20	

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), 2013-September 2023
(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 Total Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
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	240,080	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	8,876	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	8,881	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	964,357	11,522	6,819	1,588,533	12,591	809,409	287,874	71,937	368,862	-5,291	13,331	4,130,574	34,957	103,676	106,894
2020	773,393	9,662	7,679	1,626,790	11,918	789,979	285,274	89,199	408,539	-5,321	12,855	4,009,767	41,522	127,588	130,721
2021	897,999	11,663	7,511	1,579,190	11,397	779,645	251,585	115,258	448,424	-5,112	12,140	4,109,699	49,164	161,499	164,422
2022	831,512	16,805	7,126	1,687,067	11,722	771,537	254,789	143,797	502,231	-6,028	11,114	4,230,672	61,282	202,080	205,079
Year 2021															
January	81,240	936	702	126,530	1,035	71,732	24,560	5,559	36,231	-424	1,109	349,210	2,750	8,229	8,309
February	87,470	1,589	620	111,183	820	62,954	20,137	6,330	32,261	-425	921	323,900	2,939	9,135	9,270
March	61,904	791	645	107,019	860	63,708	21,220	9,296	45,129	-236	1,060	311,397	4,158	13,196	13,454
April	53,956	802	422	107,416	871	57,092	19,389	10,892	39,602	-197	969	293,308	4,610	15,168	15,502
May	63,873	835	534	114,676	914	63,394	23,309	12,457	39,602	-416	1,003	320,181	5,063	17,127	17,520
June	87,265	932	453	149,376	974	66,070	23,454	12,197	32,506	-376	1,006	373,856	5,107	16,983	17,304
July	101,537	893	681	170,189	1,046	69,832	22,098	12,192	27,811	-685	1,041	405,624	5,192	17,127	17,384
August	101,855	1,197	747	172,716	1,031	69,471	20,328	11,987	33,192	-670	1,031	412,865	4,924	16,551	16,891
Sept	78,877	950	638	138,214	984	64,520	17,022	11,214	34,783	-434	975	347,744	4,370	15,282	15,584
October	62,572	894	655	131,852	1,062	58,401	17,133	9,268	37,809	-427	982	320,202	3,821	12,866	13,089
November	57,426	887	783	122,433	871	62,749	19,373	7,795	41,400	-377	970	314,310	3,259	10,866	11,054
December	60,025	968	591	127,586	930	70,720	23,562	6,091	46,004	-445	1,073	337,104	2,970	8,969	9,061
Year 2022															
January	87,588	3,105	564	134,948	1,005	70,577	24,198	7,822	43,424	-493	1,029	373,766	3,376	11,066	11,198
February	70,966	1,114	621	114,945	886	61,852	21,321	9,027	43,090	-412	900	324,311	3,717	12,585	12,744
March	61,019	959	500	112,477	953	63,154	24,456	11,695	46,677	-318	979	324,531	5,121	16,560	16,816
April	53,329	749	428	105,506	921	65,290	20,066	13,402	32,323	-285	941	303,994	6,671	18,752	19,073
May	62,532	834	596	127,094	1,038	63,382	23,359	15,121	47,727	-467	971	342,184	6,236	20,986	21,357
June	73,463	897	683	155,517	987	65,715	25,988	16,053	39,461	-589	959	379,134	6,229	21,910	22,282
July	86,415	1,045	648	189,042	1,083	68,857	24,567	15,766	35,499	-768	982	422,976	6,438	21,916	22,204
August	85,215	1,001	576	188,860	1,008	68,897	21,133	14,503	30,657	-640	924	412,134	6,194	20,418	20,697
Sept	64,998	942	648	156,948	987	63,733	17,026	13,287	32,840	-598	845	351,655	5,544	18,546	18,831
October	54,228	952	610	133,492	968	58,945	14,367	11,942	38,036	-434	844	313,949	5,022	16,675	16,964
November	56,377	911	588	127,523	911	62,041	17,898	8,403	46,779	-495	864	321,781	4,035	12,289	12,438
December	73,381	3,296	744	140,716	978	69,094	20,430	6,777	44,514	-548	876	360,257	3,698	10,377	10,475
Year 2023															
January	61,291	995	406	137,541	990	70,870	22,288	7,970	45,188	-612	890	347,817	3,994	11,880	11,964
February	46,488	1,129	335	123,921	912	60,807	18,882	9,235	47,254	-448	801	309,116	4,406	13,533	13,642
March	50,067	976	323	132,153	961	62,820	20,228	12,124	49,883	-511	814	329,839	6,007	17,977	18,131
April	40,079	893	301	120,478	717	56,662	17,481	14,730	47,872	-281	739	299,673	6,772	21,207	21,502
May	43,852	902	286	137,795	901	61,473	27,479	16,899	37,538	-450	857	327,533	7,564	24,162	24,462
June	57,698	906	383	161,693	895	64,965	19,471	17,601	32,756	-542	848	356,672	7,433	24,669	25,034
July	78,910	967	702	200,507	995	69,888	21,238	18,841	33,341	-642	870	425,611	7,697	26,158	26,539
August	78,185	990	701	199,993	1,151	69,744	21,146	17,766	34,088	-644	815	423,934	7,585	25,041	25,350
Sept	60,006	985	635	164,466	951	65,560	16,496	15,530	33,277	-544	775	358,136	6,663	21,899	22,193
Year to Date															
2021	717,976	8,514	5,481	1,197,319	8,535	587,774	191,517	92,104	323,212	-3,862	9,115	3,138,065	39,114	128,797	131,218
2022	647,525	10,647	5,205	1,285,336	8,866	581,456	202,094	116,675	372,902	-4,550	8,530	3,234,688	48,528	162,739	165,202
2023	516,575	8,744	4,071	1,378,547	8,475	582,789	184,509	130,696	361,198	-1,680	7,409	3,178,332	58,121	186,526	188,817
Rolling 12 Months Ending in September															
2022	827,548	13,395	7,234	1,667,208	11,729	773,327	262,162	139,829	498,115	-5,799	11,554	4,206,300	58,577	195,441	198,406
2023	700,561	13,903	5,993	1,780,277	11,331	772,801	237,204	157,818	490,527	-6,158	9,993	4,174,319	70,876	225,867	228,694

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 2022 and prior years are final. Values for 2023 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), 2013-September 2023
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities									Total Renewable 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		Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
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
2022	434,297	140,798	2,999	35,464	8,535	5,776	2,073	16,087	254,789	900,817	61,282	202,080	205,079
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	28,716	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	75,648	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	37,416	7,689	133	3,106	748	492	192	1,470	24,198	75,444	3,376	11,066	11,198
February	37,645	8,869	159	2,897	701	432	173	1,243	21,321	73,438	3,717	12,585	12,744
March	43,031	11,439	255	2,934	773	465	188	1,286	24,436	84,808	5,121	16,560	16,816
April	46,167	13,081	321	2,736	699	482	161	1,282	20,066	84,995	5,671	18,752	19,073
May	42,124	14,750	371	2,905	722	492	157	1,327	23,359	86,206	6,236	20,986	21,357
June	33,768	15,681	372	3,045	710	498	166	1,276	25,988	81,502	6,229	21,910	22,282
July	29,475	15,478	288	3,276	723	510	173	1,341	24,567	75,832	6,438	21,916	22,204
August	24,718	14,224	279	3,206	707	498	174	1,354	21,133	66,293	6,194	20,418	20,697
Sept	27,331	13,002	285	2,864	686	470	159	1,329	17,026	63,152	5,544	18,546	18,831
October	32,745	11,653	289	2,624	714	473	182	1,298	14,367	64,345	5,022	16,675	16,964
November	41,199	8,254	149	2,865	678	473	167	1,397	17,898	73,080	4,035	12,289	12,438
December	38,680	6,679	99	3,005	674	493	181	1,482	20,430	71,721	3,698	10,377	10,475
Year 2023													
January	39,167	7,886	84	3,042	748	485	191	1,558	22,288	75,448	3,984	11,880	11,964
February	42,058	9,126	109	2,616	662	421	194	1,302	18,682	75,171	4,406	13,533	13,642
March	44,527	11,970	154	2,625	720	447	184	1,380	20,228	82,235	6,007	17,977	18,131
April	43,017	14,435	295	2,294	633	410	171	1,347	17,481	80,084	6,772	21,207	21,502
May	32,018	16,598	300	2,779	709	476	185	1,371	27,479	81,916	8,196	24,162	24,462
June	27,506	17,236	365	2,655	676	484	162	1,273	19,471	69,828	7,433	24,669	25,034
July	27,868	18,461	380	2,807	699	498	166	1,303	21,238	73,421	7,697	26,158	26,539
August	28,504	17,456	310	2,890	705	483	166	1,341	21,146	73,000	7,585	25,041	25,350
Sept	28,193	15,236	293	2,477	660	441	155	1,351	16,496	65,302	6,683	21,899	22,193
Year to Date													
2021	270,382	89,683	2,421	27,604	7,144	4,588	1,688	11,806	191,517	606,833	39,114	128,797	131,218
2022	321,674	114,212	2,463	26,969	6,469	4,337	1,543	11,910	202,094	691,671	48,526	162,739	165,202
2023	312,859	128,406	2,290	24,187	6,211	4,145	1,572	12,225	184,509	676,403	58,121	186,526	188,817
Rolling 12 Months Ending in September													
2022	429,490	136,864	2,965	35,828	8,746	5,850	2,123	16,079	262,162	900,105	58,577	195,441	198,406
2023	425,482	154,991	2,827	32,681	8,277	5,584	2,101	16,402	237,204	885,549	70,876	225,867	228,694

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

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

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

See Glossary for definitions. Values for 2022 and prior years are final. Values for 2023 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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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

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

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2013-September 2023
(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												
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	36,992	-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	287,336	4,916	44,184	-4,785	561	2,339,960
2019	722,886	8,313	5,112	787,745	154	430,672	282,364	6,785	48,403	-4,281	551	2,288,723
2020	582,374	7,182	5,063	815,414	45	428,953	284,656	9,945	59,797	-4,336	618	2,170,316
2021	674,804	8,791	5,728	777,057	12	430,683	228,689	13,911	75,338	-3,876	508	2,211,643
2022	621,853	9,356	5,383	832,421	0	427,933	232,953	17,697	86,233	-4,752	534	2,229,611
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	151,505
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	39,371	20,189	1,394	4,414	-551	35	226,361
August	77,465	935	600	85,233	0	38,752	19,598	1,325	5,402	-531	47	227,827
Sept	60,311	740	482	68,832	0	35,306	15,289	1,265	6,036	-313	45	185,991
October	45,722	690	514	62,206	0	34,522	15,383	1,155	6,505	-333	43	166,407
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	63,823	1,254	388	66,875	0	39,295	22,395	1,066	8,258	-420	58	202,990
February	50,911	629	453	55,560	0	34,300	19,408	1,188	7,998	-301	51	170,198
March	43,015	691	324	54,851	0	34,385	21,943	1,533	8,561	-214	55	165,124
April	40,123	648	361	51,428	0	30,252	17,583	1,714	8,652	-164	43	159,540
May	47,965	639	503	62,462	0	35,037	21,195	1,850	7,488	-375	53	178,616
June	56,910	652	545	79,183	0	36,908	24,206	1,837	6,114	-460	40	206,025
July	66,631	678	388	95,306	0	38,888	23,132	1,812	5,104	-623	40	231,356
August	64,386	661	421	93,582	0	38,921	19,778	1,718	4,893	-495	36	223,901
Sept	49,704	680	480	75,975	0	35,914	15,593	1,490	5,846	-493	33	185,223
October	41,080	676	440	64,375	0	32,085	12,963	1,460	6,736	-370	46	159,472
November	41,209	673	446	63,004	0	33,612	16,315	1,046	8,593	-398	40	164,538
December	56,116	1,575	636	69,839	0	38,335	18,352	982	7,992	-437	39	193,428
Year 2023												
January	47,831	758	265	67,520	0	40,507	19,891	1,192	7,057	-498	22	184,544
February	34,798	698	257	59,840	0	34,281	16,853	1,441	8,199	-359	16	156,023
March	37,671	698	166	64,873	0	36,091	18,049	1,888	8,065	-389	17	167,130
April	28,976	648	176	60,059	0	33,574	15,692	1,946	8,513	-191	15	149,410
May	32,569	658	166	70,599	0	34,877	25,440	2,287	6,221	-336	21	172,502
June	46,212	693	257	81,246	0	37,151	18,128	2,245	4,591	-420	31	190,133
July	62,695	683	484	100,460	0	39,977	19,340	2,296	4,445	-519	29	229,891
August	61,738	751	491	101,985	0	40,065	19,192	2,279	5,179	-499	-7	231,175
Sept	46,727	733	441	80,467	0	37,575	14,782	1,942	5,202	-415	26	187,477
Year to Date												
2021	543,444	8,765	4,162	593,360	12	322,035	174,296	10,882	52,664	-2,903	377	1,705,095
2022	483,468	6,432	3,861	635,202	0	323,901	185,324	14,209	62,913	-3,546	409	1,712,173
2023	399,219	6,320	2,704	687,048	0	334,088	167,368	17,514	57,472	-3,627	171	1,668,286
Rolling 12 Months Ending in September												
2022	614,829	8,457	5,427	818,899	0	432,550	239,714	17,238	85,586	-4,519	540	2,218,722
2023	537,604	9,244	4,225	884,267	0	438,130	214,997	21,002	80,792	-4,833	296	2,185,723

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.
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Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2013-September 2023
(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												
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	278,688	5,487	1,516	645,616	3,935	382,833	23,812	58,337	275,154	-1,119	6,677	1,680,917
2019	235,947	2,969	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	708,885	3,128	380,925	19,468	78,587	318,633	-995	6,971	1,683,340
2021	217,836	2,378	1,413	699,547	3,292	348,961	21,702	100,612	344,784	-1,235	6,449	1,745,538
2022	204,243	5,734	1,354	750,266	3,451	343,604	20,673	125,155	387,500	-1,276	3,487	1,844,282
Year 2021												
January	20,645	159	124	55,180	337	32,261	1,989	4,766	28,106	-92	586	144,063
February	20,795	331	90	49,941	190	28,615	1,441	5,502	24,726	-86	516	132,062
March	15,206	149	104	45,540	188	28,384	2,124	8,081	35,500	-94	576	135,757
April	12,755	153	131	45,583	270	26,966	2,023	9,464	32,452	-95	519	130,220
May	14,000	161	136	49,085	289	29,903	2,024	10,827	30,751	-83	535	137,617
June	20,363	225	87	65,703	322	29,216	1,544	10,826	25,029	-106	537	153,743
July	24,686	194	114	75,646	312	30,461	1,989	10,720	20,990	-134	546	165,344
August	23,918	221	122	77,980	331	30,719	1,639	10,565	25,329	-139	532	171,218
Sept	18,077	178	130	63,041	299	29,214	1,640	9,880	26,399	-120	512	149,249
October	16,402	166	112	61,110	343	23,879	1,657	8,055	29,020	-93	536	141,184
November	15,296	202	131	54,770	180	27,867	1,899	6,755	31,239	-76	493	138,756
December	15,573	240	132	55,971	232	31,476	1,834	5,172	35,242	-107	563	146,327
Year 2022												
January	23,291	1,778	144	58,734	292	31,282	1,702	6,707	32,672	-73	337	156,865
February	19,627	438	131	51,382	251	27,552	1,808	7,781	32,824	-111	276	141,960
March	17,526	222	145	49,110	270	28,768	2,358	10,085	37,718	-103	307	146,406
April	14,792	154	137	48,169	291	25,037	2,360	11,588	40,541	-101	296	141,274
May	14,096	149	58	56,228	365	28,345	2,054	13,172	37,838	-92	289	152,501
June	16,076	192	108	67,698	281	28,807	1,601	14,109	30,941	-129	309	159,993
July	19,305	311	71	84,262	342	29,969	1,357	13,851	27,884	-146	312	177,519
August	20,347	295	124	85,697	277	29,976	1,272	12,685	23,314	-145	298	174,141
Sept	14,860	210	140	72,435	306	27,819	1,354	11,709	24,739	-105	275	153,744
October	12,745	228	136	60,642	276	26,860	1,338	10,406	29,126	-64	255	141,947
November	14,768	190	84	55,774	236	28,430	1,504	7,299	35,838	-87	252	144,278
December	16,810	1,566	76	62,134	264	30,759	1,966	5,753	34,153	-111	284	153,653
Year 2023												
January	13,044	175	NM	61,054	285	30,363	2,283	6,726	35,704	-113	305	149,938
February	11,317	380	NM	55,673	239	26,526	1,733	7,737	36,903	-89	270	140,742
March	12,027	221	121	58,446	261	26,730	2,073	10,156	39,568	-122	278	149,759
April	10,740	199	104	52,936	171	23,088	1,701	12,696	37,286	-91	234	139,065
May	10,911	202	100	58,974	282	26,596	1,928	14,508	28,990	-114	288	142,665
June	11,103	165	103	71,414	242	27,814	1,259	15,254	25,977	-123	273	153,484
July	15,809	237	183	90,565	292	29,910	1,804	16,435	26,689	-129	258	182,053
August	16,060	193	179	88,374	344	29,679	1,858	15,382	26,633	-145	247	178,804
Sept	12,903	211	166	74,787	277	27,985	1,634	13,498	26,019	-129	213	157,566
Year to Date												
2021	170,365	1,770	1,038	527,696	2,538	265,739	16,312	80,630	249,283	-859	4,858	1,319,271
2022	159,921	3,750	1,058	571,716	2,676	257,555	15,866	101,697	288,472	-1,004	2,697	1,404,403
2023	113,913	1,984	1,121	612,224	2,394	248,691	16,273	112,392	283,769	-1,053	2,366	1,394,076
Rolling 12 Months Ending in September												
2022	207,191	4,358	1,432	743,567	3,431	340,777	21,256	121,679	383,973	-1,281	4,288	1,830,670
2023	158,236	3,969	NM	790,774	3,169	334,740	21,081	135,850	382,887	-1,325	3,156	1,833,955

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 manufacturing 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 2022 and prior years are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
 Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
 Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
 Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
 Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
 Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2013-September 2023
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Total 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		Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar		
Annual Totals																	
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	7	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,146	5,146	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	6,106	
2016	383	217	6	7,730	0	0	217	529	2,697	0	1,068	12,706	6,158	6,687	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	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	10,324	
2019	288	116	5	8,610	0	0	188	587	2,840	0	1,076	13,689	11,002	11,598	11,598	11,598	
2020	240	97	2	8,110	0	0	214	586	2,761	0	1,035	13,046	12,859	13,445	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	15,722	
2022	287	101	10	7,830	0	0	263	669	4,185	0	3,391	16,737	17,724	18,393	18,393	18,393	
Year 2021																	
January	26	10	0	638	0	0	25	30	258	0	109	1,096	865	895	895	895	
February	34	9	1	561	0	0	22	31	230	0	85	973	935	965	965	965	
March	25	8	0	557	0	0	23	53	227	0	96	988	1,280	1,332	1,332	1,332	
April	19	9	0	484	0	0	21	61	240	0	104	938	1,416	1,477	1,477	1,477	
May	13	9	0	506	0	0	23	66	249	0	100	966	1,534	1,600	1,600	1,600	
June	19	7	0	647	0	0	24	64	242	0	97	1,101	1,551	1,615	1,615	1,615	
July	20	8	0	729	0	0	23	65	253	0	107	1,204	1,599	1,664	1,664	1,664	
August	23	7	0	764	0	0	21	61	257	0	109	1,242	1,538	1,599	1,599	1,599	
Sept	25	6	0	651	0	0	19	55	254	0	105	1,115	1,373	1,428	1,428	1,428	
October	29	7	1	603	0	0	17	45	247	0	90	1,040	1,194	1,239	1,239	1,239	
November	26	7	1	587	0	0	18	38	253	0	102	1,031	945	983	983	983	
December	21	9	1	619	0	0	22	29	268	0	105	1,074	895	924	924	924	
Year 2022																	
January	29	23	1	655	0	0	24	36	358	0	276	1,403	1,012	1,048	1,048	1,048	
February	19	6	1	563	0	0	21	42	324	0	254	1,232	1,116	1,158	1,158	1,158	
March	18	5	1	606	0	0	24	56	346	0	271	1,328	1,521	1,576	1,576	1,576	
April	13	6	1	559	0	0	21	68	349	0	295	1,308	1,662	1,728	1,728	1,728	
May	10	6	1	611	0	0	26	71	358	0	298	1,381	1,816	1,887	1,887	1,887	
June	27	8	1	672	0	0	27	74	354	0	291	1,455	1,819	1,893	1,893	1,893	
July	26	7	1	807	0	0	26	72	359	0	294	1,592	1,894	1,966	1,966	1,966	
August	29	8	0	822	0	0	22	69	360	0	286	1,595	1,801	1,871	1,871	1,871	
Sept	30	5	0	696	0	0	18	61	335	0	272	1,417	1,608	1,668	1,668	1,668	
October	28	5	0	571	0	0	15	52	345	0	284	1,300	1,383	1,435	1,435	1,435	
November	28	6	1	601	0	0	18	40	350	0	286	1,330	1,086	1,126	1,126	1,126	
December	30	18	1	668	0	0	20	29	347	0	284	1,397	1,007	1,037	1,037	1,037	
Year 2023																	
January	18	8	1	668	0	0	23	35	341	0	271	1,365	1,107	1,143	1,143	1,143	
February	20	8	0	619	0	0	19	39	294	0	231	1,231	1,236	1,274	1,274	1,274	
March	16	7	0	651	0	0	NM	55	310	0	241	1,300	1,661	1,717	1,717	1,717	
April	20	NM	0	600	0	0	NM	59	298	0	235	1,234	1,842	1,901	1,901	1,901	
May	18	NM	0	624	0	0	NM	70	324	0	272	1,345	2,007	2,077	2,077	2,077	
June	NM	4	0	727	0	0	NM	68	337	0	282	1,447	1,999	2,067	2,067	2,067	
July	12	6	0	820	0	0	NM	74	343	0	290	1,565	2,078	2,152	2,152	2,152	
August	11	5	0	820	0	0	NM	70	336	0	278	1,541	1,997	2,067	2,067	2,067	
Sept	14	5	0	767	0	0	NM	60	311	0	258	1,428	1,791	1,851	1,851	1,851	
Year to Date																	
2021	205	72	1	5,538	0	0	200	486	2,211	0	911	9,623	12,090	12,576	12,576	12,576	
2022	202	73	8	5,990	0	0	210	548	3,143	0	2,537	12,711	14,247	14,795	14,795	14,795	
2023	137	52	1	6,295	0	0	188	530	2,894	0	2,359	12,457	15,718	16,248	16,248	16,248	
Rolling 12 Months Ending in September																	
2022	278	95	12	7,798	0	0	268	660	3,911	0	2,834	15,856	17,282	17,941	17,941	17,941	
2023	NM	NM	3	8,135	0	0	NM	651	3,936	0	3,213	16,483	19,195	19,846	19,846	19,846	

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 includes 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 2022 and prior years are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

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

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

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

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2013-September 2023
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Total 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		Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar			
Annual Totals																		
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	5,357	424	576	100,065	8,554	0	1,033	85	27,276	0	4,567	146,537	3,041	3,127	3,127			
2020	5,451	398	510	96,381	8,644	0	1,001	101	26,348	0	4,231	143,064	3,484	3,586	3,586			
2021	5,278	400	367	95,240	8,093	0	936	137	25,324	0	3,975	139,750	3,858	3,994	3,994			
2022	5,128	614	379	96,550	8,271	0	899	276	24,224	0	3,702	140,043	4,048	4,324	4,324			
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	76	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	29	28	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	445	51	31	8,683	713	0	77	13	2,137	0	359	12,508	230	243	243			
February	409	NM	36	7,440	635	0	83	15	1,944	0	319	10,921	244	259	259			
March	459	41	30	7,931	683	0	111	21	2,051	0	347	11,673	348	369	369			
April	402	42	28	7,350	630	0	102	24	1,988	0	308	10,871	377	401	401			
May	461	40	35	7,792	671	0	84	28	2,043	0	332	11,485	413	441	441			
June	450	45	29	7,964	706	0	63	32	2,053	0	319	11,661	413	446	446			
July	453	48	28	8,667	741	0	53	31	2,152	0	336	12,510	426	458	458			
August	453	38	31	8,759	731	0	61	30	2,091	0	303	12,498	411	441	441			
Sept	404	47	29	7,842	680	0	60	26	1,919	0	265	11,272	368	395	395			
October	396	43	33	7,903	692	0	51	24	1,828	0	260	11,230	333	357	357			
November	372	43	38	8,144	675	0	62	18	1,998	0	287	11,635	256	273	273			
December	425	137	31	8,075	714	0	92	13	2,023	0	270	11,779	229	242	242			
Year 2023																		
January	398	54	NM	8,299	705	0	90	17	2,087	0	292	11,969	246	263	263			
February	353	43	NM	7,789	673	0	77	19	1,857	0	284	11,120	261	280	280			
March	353	50	35	8,182	701	0	85	26	1,940	0	277	11,649	374	399	399			
April	342	42	NM	6,883	546	0	71	30	1,775	0	254	9,965	412	442	442			
May	355	37	20	7,599	619	0	80	34	2,002	0	276	11,020	451	485	485			
June	374	44	NM	8,305	653	0	63	34	1,851	0	262	11,609	451	485	485			
July	394	41	NM	8,662	704	0	73	37	1,864	0	293	12,103	465	502	502			
August	375	40	NM	8,814	808	0	74	34	1,941	0	296	12,414	448	483	483			
Sept	362	36	NM	8,446	674	0	66	29	1,745	0	278	11,665	403	433	433			
Year to Date																		
2021	3,862	307	280	70,725	5,985	0	706	166	19,054	0	2,969	104,096	3,074	3,180	3,180			
2022	3,935	392	277	72,428	6,190	0	694	221	18,375	0	2,886	105,309	3,230	3,452	3,452			
2023	3,306	388	245	72,979	6,081	0	680	260	17,062	0	2,512	103,514	3,512	3,772	3,772			
Rolling 12 Months Ending in September																		
2022	5,251	NM	363	96,943	8,288	0	924	252	24,645	0	3,892	141,053	4,014	4,266	4,266			
2023	4,498	610	NM	97,101	8,162	0	885	315	22,911	0	3,328	138,158	4,329	4,644	4,644			

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 2022 and prior years are final. Values for 2023 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-September 2023
(Thousand Megawatthours)**

Period	Small Scale Generation	
		Estimated Small Scale Solar Photovoltaic Generation
Annual Totals		
2014		4,947
2015		6,999
2016		10,595
2017		13,942
2018		17,105
2019		20,914
2020		25,179
2021		30,182
2022		39,510
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		2,135
February		2,357
March		3,252
April		3,632
May		4,007
June		3,997
July		4,118
August		3,982
Sept		3,569
October		3,306
November		2,693
December		2,462
Year 2023		
January		2,641
February		2,909
March		3,971
April		4,517
May		5,106
June		4,983
July		5,154
August		5,139
Sept		4,469
Year to Date		
2021		23,950
2022		31,049
2023		38,891
Rolling 12 Months Ending in September		
2022		37,281
2023		47,352

See Glossary for definitions. Values for 2022 and prior years are final. Values for 2023 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, September 2023 and 2022 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector					
	September 2023	September 2022	Percentage Change	Electric Utilities		Independent Power Producers		September 2023	September 2022	September 2023	September 2022				
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities						Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
				September 2023	September 2022	September 2023	September 2022					September 2023	September 2022	September 2023	September 2022
New England	8,592	8,638	-0.5%	100	75	8,134	8,172	186	174	173	217				
Connecticut	3,573	3,923	-8.9%	7	6	3,476	3,844	28	28	62	46				
Maine	844	1,075	-21.6%	0	0	759	926	3	9	82	141				
Massachusetts	1,646	1,381	19.2%	39	26	1,450	1,213	144	128	13	15				
New Hampshire	1,509	1,491	1.2%	NM	1	1,501	1,482	5	5	2	2				
Rhode Island	872	651	33.9%	0	0	854	635	5	4	14	13				
Vermont	148	116	27.5%	53	43	95	73	0	0	0	0				
Middle Atlantic	35,975	34,454	4.4%	2,860	2,533	32,315	31,157	336	334	462	430				
New Jersey	5,512	5,669	-2.8%	24	22	5,346	5,505	89	92	54	50				
New York	10,433	9,275	12.5%	2,832	2,504	7,335	6,511	198	195	68	66				
Pennsylvania	20,030	19,509	2.7%	4	7	19,635	19,142	50	46	340	314				
East North Central	49,666	47,327	4.9%	17,893	16,431	30,769	29,915	162	173	842	807				
Illinois	13,913	14,514	-4.1%	427	455	13,248	13,827	42	50	196	182				
Indiana	7,137	6,733	6.0%	4,422	4,147	2,300	2,203	20	21	393	361				
Michigan	10,583	10,226	3.5%	7,130	7,311	3,292	2,742	59	64	102	110				
Ohio	12,164	11,349	7.2%	1,172	1,149	10,923	10,126	30	27	39	48				
Wisconsin	5,870	4,504	30.3%	4,743	3,370	1,005	1,017	10	12	111	105				
West North Central	28,208	30,012	-6.0%	21,407	22,630	6,392	6,989	54	65	354	328				
Iowa	5,410	5,667	-4.5%	4,410	4,673	821	803	10	18	168	174				
Kansas	4,691	5,413	-13.3%	2,850	3,328	1,798	2,057	NM	1	42	28				
Minnesota	4,550	4,569	-0.4%	3,221	3,239	1,204	1,222	24	28	100	80				
Missouri	5,799	6,544	-11.4%	5,192	6,039	587	485	17	17	2	3				
Nebraska	3,398	2,818	20.6%	2,580	1,873	794	923	2	1	23	20				
North Dakota	3,146	3,583	-12.2%	2,480	2,719	654	848	0	0	13	16				
South Dakota	1,214	1,417	-14.3%	674	760	534	650	NM	0	NM	6				
South Atlantic	69,996	66,913	4.6%	57,501	53,705	10,897	11,653	219	213	1,378	1,341				
Delaware	396	394	0.4%	5	3	282	288	NM	0	109	103				
District of Columbia	17	12	36.5%	NM	0	2	2	15	11	0	0				
Florida	24,003	22,816	5.2%	22,514	21,068	1,047	1,364	94	77	348	307				
Georgia	11,692	10,821	8.0%	9,429	8,462	1,893	1,922	NM	0	370	437				
Maryland	2,937	3,009	-2.4%	223	403	2,684	2,575	26	27	4	4				
North Carolina	10,859	10,822	0.3%	8,844	8,747	1,865	1,936	23	22	127	117				
South Carolina	8,572	7,951	7.8%	8,079	7,338	351	502	0	0	142	111				
Virginia	7,507	7,161	4.8%	5,513	5,201	1,761	1,718	60	76	172	166				
West Virginia	4,013	3,926	2.2%	2,894	2,482	1,012	1,347	0	0	107	97				
East South Central	30,273	29,300	3.3%	26,314	25,250	3,257	3,324	18	15	683	711				
Alabama	11,661	11,955	-2.5%	8,380	8,566	2,929	3,041	0	0	352	347				
Kentucky	5,305	5,220	1.6%	5,219	5,137	53	32	NM	0	33	50				
Mississippi	6,389	5,633	13.4%	6,142	5,354	113	124	0	0	135	156				
Tennessee	6,917	6,492	6.5%	6,573	6,193	163	126	18	15	164	158				
West South Central	72,604	66,458	9.2%	23,495	22,024	42,677	38,405	136	99	6,295	5,930				
Arkansas	5,585	5,957	-6.2%	5,080	5,376	433	485	NM	6	67	90				
Louisiana	9,016	8,607	4.8%	6,065	5,468	526	653	NM	14	2,417	2,472				
Oklahoma	7,905	6,649	18.9%	3,608	2,970	4,257	3,627	-2	0	42	52				
Texas	50,097	45,245	10.7%	8,742	8,209	37,460	33,640	125	80	3,769	3,316				
Mountain	31,468	33,758	-6.8%	21,743	24,807	9,399	8,659	59	52	267	241				
Arizona	10,363	10,277	0.8%	7,802	8,037	2,544	2,223	15	14	NM	3				
Colorado	4,647	4,727	-1.7%	3,172	3,322	1,451	1,381	4	3	19	21				
Idaho	1,132	1,278	-11.4%	683	805	400	424	6	6	43	43				
Montana	1,890	1,981	-4.6%	538	776	1,350	1,202	0	0	2	2				
Nevada	3,580	4,047	-11.5%	2,028	2,544	1,483	1,452	10	10	59	42				
New Mexico	3,223	3,440	-6.3%	1,826	2,208	1,386	1,220	9	11	2	2				
Utah	3,115	3,955	-21.2%	2,614	3,457	469	467	16	9	15	23				
Wyoming	3,519	4,053	-13.2%	3,078	3,658	316	290	0	0	124	105				
Pacific Contiguous	29,963	33,475	-10.5%	15,153	16,814	13,420	15,182	207	234	1,183	1,245				
California	18,464	20,055	-7.9%	6,840	6,831	10,453	11,961	201	227	970	1,037				
Oregon	4,547	5,025	-9.5%	2,700	3,159	1,795	1,820	5	6	46	39				
Washington	6,952	8,395	-17.2%	5,613	6,824	1,172	1,402	NM	1	167	168				
Pacific Noncontiguous	1,392	1,322	5.3%	1,011	953	304	287	51	58	27	24				
Alaska	512	497	3.0%	465	442	16	20	23	27	8	8				
Hawaii	880	825	6.6%	545	511	288	267	28	32	19	16				
U.S. Total	358,136	351,655	1.8%	187,477	185,223	157,566	153,744	1,428	1,417	11,665	11,272				

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	73,933	81,026	-8.8%	1,094	1,164	69,616	76,230	1,622	1,682	1,602	1,949
Connecticut	30,574	32,314	-5.4%	63	63	29,782	31,565	225	223	504	463
Maine	8,452	9,829	-14.0%	NM	1	7,574	8,550	37	79	841	1,199
Massachusetts	14,791	16,795	-11.9%	362	400	13,035	14,958	1,274	1,285	120	152
New Hampshire	12,185	14,541	-16.2%	NM	8	12,112	14,463	45	48	20	22
Rhode Island	6,365	5,886	8.1%	0	0	6,209	5,727	39	44	117	114
Vermont	1,566	1,661	-5.8%	659	691	905	968	2	2	0	0
Middle Atlantic	323,943	328,004	-1.2%	27,090	27,171	289,844	293,791	2,930	3,035	4,078	4,008
New Jersey	48,807	50,347	-3.1%	202	208	47,324	48,891	839	873	442	375
New York	93,378	95,093	-1.8%	26,821	26,865	64,292	65,886	1,662	1,712	604	630
Pennsylvania	181,757	182,564	-0.4%	67	98	178,229	179,014	429	449	3,032	3,003
East North Central	436,450	454,360	-3.3%	157,809	160,862	272,358	283,939	1,412	1,392	7,871	8,168
Illinois	131,929	139,520	-5.4%	3,533	3,442	126,261	133,779	376	344	1,760	1,954
Indiana	68,207	74,035	-7.9%	41,971	47,031	22,481	23,211	189	182	3,565	3,611
Michigan	92,059	88,071	4.5%	61,747	60,785	28,814	25,711	537	565	962	1,010
Ohio	97,732	104,544	-6.5%	11,117	11,748	85,872	92,087	213	196	530	513
Wisconsin	49,523	48,191	2.8%	39,442	37,856	8,931	9,151	97	105	1,054	1,079
West North Central	265,460	286,275	-7.3%	197,207	213,524	64,559	68,966	457	590	3,236	3,196
Iowa	53,043	53,967	-1.7%	42,862	43,877	8,549	8,348	99	139	1,532	1,603
Kansas	44,321	48,697	-9.0%	26,165	27,520	17,815	20,974	11	12	331	191
Minnesota	43,998	44,642	-1.4%	31,028	32,020	11,828	11,421	190	270	952	930
Missouri	51,335	60,554	-15.2%	46,022	55,414	5,138	4,950	142	155	33	36
Nebraska	30,189	31,025	-2.7%	21,201	21,878	8,751	8,888	15	14	223	245
North Dakota	29,988	33,493	-10.5%	23,068	25,371	6,807	7,984	0	0	113	138
South Dakota	12,586	13,898	-9.4%	6,862	7,443	5,671	6,401	NM	0	53	54
South Atlantic	618,266	619,751	-0.2%	506,506	503,634	97,128	101,268	2,105	2,103	12,526	12,747
Delaware	3,887	4,026	-3.5%	21	51	2,905	3,181	5	6	956	788
District of Columbia	148	125	18.3%	NM	0	20	18	128	107	0	0
Florida	200,571	199,437	0.6%	187,580	184,796	8,991	10,584	852	820	3,149	3,236
Georgia	100,484	97,215	3.4%	80,369	76,824	16,605	16,492	2	5	3,508	3,894
Maryland	27,149	28,449	-4.6%	3,461	3,169	23,416	25,049	232	193	40	38
North Carolina	98,013	101,279	-3.2%	79,938	83,073	16,707	16,722	198	213	1,170	1,271
South Carolina	76,966	76,493	0.6%	72,594	71,414	3,114	3,930	2	0	1,257	1,149
Virginia	70,235	68,122	3.1%	53,426	53,298	14,540	12,445	686	758	1,583	1,620
West Virginia	40,811	44,604	-8.5%	29,117	31,008	10,831	12,846	0	0	863	750
East South Central	272,967	277,461	-1.6%	233,903	237,875	32,392	32,784	160	156	6,512	6,646
Alabama	106,761	111,646	-4.4%	75,118	79,779	28,254	28,455	0	0	3,389	3,411
Kentucky	48,195	53,088	-9.2%	47,415	52,109	391	552	2	2	387	425
Mississippi	57,297	51,836	10.5%	53,592	47,896	2,348	2,557	0	0	1,357	1,383
Tennessee	60,714	60,891	-0.3%	57,778	58,090	1,399	1,220	158	153	1,379	1,427
West South Central	608,416	601,885	1.1%	188,919	195,258	364,076	350,870	925	742	54,495	55,014
Arkansas	47,477	51,898	-8.5%	42,814	46,173	3,931	4,868	41	45	691	812
Louisiana	74,516	81,088	-8.1%	47,915	52,378	5,324	6,207	41	113	21,236	22,391
Oklahoma	69,686	65,113	7.0%	31,402	28,808	37,712	35,659	-17	-14	588	660
Texas	416,737	403,785	3.2%	66,788	67,899	317,109	304,136	860	598	31,980	31,152
Mountain	277,954	283,003	-1.8%	192,510	201,990	82,695	78,357	501	435	2,248	2,221
Arizona	84,317	79,904	5.5%	65,411	62,794	18,767	16,978	117	120	21	12
Colorado	42,686	43,811	-2.6%	28,913	30,603	13,584	13,017	27	22	162	168
Idaho	11,774	12,380	-4.9%	7,343	8,011	3,984	3,919	52	51	396	399
Montana	19,064	20,229	-5.8%	7,164	9,001	11,882	11,208	0	0	19	20
Nevada	32,233	32,528	-0.9%	18,922	19,334	12,834	12,839	85	85	391	269
New Mexico	30,341	30,358	-0.1%	16,244	17,922	13,968	12,340	77	82	53	14
Utah	26,112	29,814	-12.4%	21,564	25,181	4,269	4,290	143	75	136	268
Wyoming	31,426	33,979	-7.5%	26,949	29,144	3,406	3,766	0	0	1,071	1,069
Pacific Contiguous	285,867	290,955	-1.7%	154,408	162,385	118,904	115,333	1,862	2,038	10,693	11,199
California	164,494	154,298	6.6%	60,893	49,876	93,076	93,126	1,800	1,968	8,725	9,329
Oregon	44,946	46,543	-3.4%	28,935	32,588	15,482	13,479	54	53	474	422
Washington	76,427	90,114	-15.2%	64,580	79,921	10,346	8,728	8	18	1,493	1,448
Pacific Noncontiguous	12,078	11,965	0.9%	8,838	8,311	2,505	2,866	482	538	253	251
Alaska	4,989	5,048	-1.2%	4,527	4,555	138	156	237	251	86	87
Hawaii	7,089	6,917	2.5%	4,311	3,756	2,366	2,710	245	287	167	164
U.S. Total	3,173,332	3,234,686	-1.7%	1,668,286	1,712,173	1,394,076	1,404,403	12,457	12,711	103,514	105,399

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	0	2	-84.6%	0	0	0	2	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	2	-84.6%	0	0	0	2	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	761	966	-21.3%	0	0	754	962	0	0	7	4
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	761	966	-21.3%	0	0	754	962	0	0	7	4
East North Central	13,101	14,124	-7.2%	8,339	8,233	4,679	5,782	1	7	82	101
Illinois	2,036	2,553	-20.3%	137	169	1,827	2,299	1	1	70	84
Indiana	3,440	3,520	-2.3%	3,069	3,093	371	420	0	7	0	0
Michigan	2,400	3,058	-21.5%	2,392	3,028	8	31	0	0	NM	0
Ohio	2,841	3,441	-17.4%	369	408	2,473	3,033	0	0	0	0
Wisconsin	2,384	1,551	53.6%	2,373	1,535	0	0	0	0	11	16
West North Central	11,173	12,627	-11.5%	11,016	12,440	0	0	1	11	156	176
Iowa	1,595	1,705	-6.4%	1,483	1,565	0	0	0	7	112	133
Kansas	1,368	2,071	-33.9%	1,368	2,071	0	0	0	0	0	0
Minnesota	931	1,033	-9.9%	920	1,023	0	0	1	0	NM	10
Missouri	3,423	4,319	-20.8%	3,423	4,315	0	0	0	4	0	0
Nebraska	1,764	1,258	40.3%	1,741	1,237	0	0	0	0	23	20
North Dakota	1,917	2,020	-5.1%	1,907	2,007	0	0	0	0	NM	13
South Dakota	175	221	-21.0%	175	221	0	0	0	0	0	0
South Atlantic	9,128	7,806	16.9%	8,069	6,333	1,032	1,429	1	0	26	43
Delaware	3	-2	-214.5%	0	0	3	-2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,192	1,138	4.7%	1,189	1,135	0	0	0	0	4	NM
Georgia	1,582	952	66.1%	1,576	938	0	0	0	0	6	14
Maryland	318	334	-4.7%	0	0	318	334	0	0	0	0
North Carolina	1,224	640	91.2%	1,220	629	0	0	1	0	2	11
South Carolina	1,216	1,147	6.1%	1,216	1,130	0	14	0	0	0	3
Virginia	64	105	-39.7%	50	93	0	0	0	0	13	13
West Virginia	3,529	3,492	1.1%	2,818	2,408	711	1,084	0	0	0	0
East South Central	6,905	7,191	-4.0%	6,800	7,090	73	81	0	0	33	20
Alabama	1,622	2,138	-24.1%	1,622	2,138	0	0	0	0	0	0
Kentucky	3,593	3,576	0.5%	3,593	3,576	0	0	0	0	0	0
Mississippi	259	260	-0.4%	186	179	73	81	0	0	0	0
Tennessee	1,432	1,216	17.7%	1,399	1,196	0	0	0	0	33	20
West South Central	9,753	10,232	-4.7%	4,890	5,277	4,854	4,953	0	0	9	2
Arkansas	1,611	1,737	-7.2%	1,369	1,423	240	312	0	0	2	2
Louisiana	410	655	-37.4%	394	391	16	264	0	0	0	0
Oklahoma	445	461	-3.4%	438	461	0	0	0	0	7	0
Texas	7,286	7,380	-1.3%	2,689	3,003	4,597	4,376	0	0	0	0
Mountain	8,737	11,488	-24.0%	7,568	10,295	1,140	1,161	0	0	29	32
Arizona	933	1,471	-36.6%	933	1,471	0	0	0	0	0	0
Colorado	1,702	1,893	-10.1%	1,702	1,893	0	0	0	0	0	0
Idaho	NM	0	--	0	0	0	0	0	0	NM	0
Montana	997	953	4.6%	0	0	997	953	0	0	NM	0
Nevada	149	229	-34.9%	63	115	87	115	0	0	0	0
New Mexico	786	1,176	-33.2%	786	1,176	0	0	0	0	0	0
Utah	1,448	2,425	-40.3%	1,448	2,388	0	37	0	0	0	0
Wyoming	2,720	3,340	-18.6%	2,635	3,252	57	57	0	0	28	32
Pacific Contiguous	380	500	-24.0%	0	0	359	473	0	0	21	27
California	19	25	-25.0%	0	0	0	0	0	0	19	25
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	361	475	-23.9%	0	0	359	473	0	0	2	2
Pacific Noncontiguous	68	62	9.5%	46	35	NM	16	11	11	0	0
Alaska	68	62	9.5%	46	35	NM	16	11	11	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	60,006	64,998	-7.7%	46,727	49,704	12,903	14,860	14	30	362	404

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	140	308	-54.5%	0	0	140	308	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	28	31	-10.7%	0	0	28	31	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	112	277	-59.4%	0	0	112	277	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	10,782	20,520	-47.5%	0	0	10,711	20,455	0	0	71	65
New Jersey	0	498	-100.0%	0	0	0	498	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	10,782	20,023	-46.2%	0	0	10,711	19,957	0	0	71	65
East North Central	107,598	149,708	-28.1%	65,727	85,457	41,012	63,168	33	48	827	1,034
Illinois	20,339	31,948	-36.3%	1,006	1,459	18,605	29,602	12	11	715	876
Indiana	30,959	39,765	-22.1%	27,932	36,320	3,006	3,408	20	37	0	0
Michigan	17,457	26,271	-33.6%	17,288	26,000	156	266	0	0	NM	5
Ohio	22,614	33,954	-33.4%	3,370	4,062	19,244	29,892	0	0	0	0
Wisconsin	16,228	17,770	-8.7%	16,130	17,616	0	0	0	0	99	153
West North Central	97,766	119,074	-17.9%	96,389	117,400	0	0	7	68	1,371	1,606
Iowa	13,693	14,064	-2.6%	12,724	12,866	0	0	3	44	967	1,153
Kansas	12,865	16,134	-20.3%	12,865	16,134	0	0	0	0	0	0
Minnesota	9,095	12,113	-24.9%	9,001	11,992	0	0	2	16	93	104
Missouri	30,548	41,020	-25.5%	30,545	41,013	0	0	2	7	0	0
Nebraska	13,561	15,197	-10.8%	13,338	14,952	0	0	0	0	223	245
North Dakota	16,816	18,744	-10.3%	16,727	18,640	0	0	0	0	88	104
South Dakota	1,189	1,802	-34.0%	1,189	1,802	0	0	0	0	0	0
South Atlantic	83,033	94,319	-12.0%	73,841	79,380	8,926	14,573	4	9	263	358
Delaware	-7	110	-106.4%	0	0	-7	110	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,276	11,458	-19.0%	9,247	11,431	0	0	0	0	29	27
Georgia	13,024	13,160	-1.0%	12,945	13,041	0	0	0	0	80	119
Maryland	1,507	4,057	-62.9%	0	0	1,507	4,057	0	0	0	0
North Carolina	10,782	11,582	-6.9%	10,719	11,462	0	0	4	9	59	111
South Carolina	11,838	10,957	8.0%	11,758	10,794	62	151	0	0	18	12
Virginia	1,175	2,739	-57.1%	1,099	2,649	0	0	0	0	77	90
West Virginia	35,438	40,257	-12.0%	28,073	30,002	7,364	10,255	0	0	0	0
East South Central	64,291	73,645	-12.7%	62,016	71,201	1,996	2,166	0	0	278	278
Alabama	16,258	19,456	-21.6%	15,258	19,456	0	0	0	0	0	0
Kentucky	33,053	36,233	-8.8%	33,053	36,233	0	0	0	0	0	0
Mississippi	3,164	4,571	-30.8%	1,167	2,405	1,996	2,166	0	0	0	0
Tennessee	12,817	13,384	-4.2%	12,539	13,106	0	0	0	0	278	278
West South Central	75,568	96,857	-22.0%	37,542	50,998	37,981	45,770	0	0	45	89
Arkansas	12,927	16,224	-20.3%	10,324	12,812	2,577	3,382	0	0	26	30
Louisiana	3,280	6,869	-52.2%	2,796	4,108	484	2,761	0	0	0	0
Oklahoma	4,355	7,353	-40.8%	4,336	7,294	0	0	0	0	19	59
Texas	55,006	66,411	-17.2%	20,085	26,784	34,920	39,627	0	0	0	0
Mountain	73,593	89,250	-17.5%	63,331	78,698	9,993	10,237	0	0	270	316
Arizona	8,584	10,164	-15.5%	8,584	10,164	0	0	0	0	0	0
Colorado	13,795	16,399	-15.9%	13,795	16,399	0	0	0	0	0	0
Idaho	NM	6	NM	0	0	0	0	0	0	NM	6
Montana	8,511	8,458	0.6%	0	0	8,508	8,453	0	0	NM	5
Nevada	1,452	2,105	-31.0%	694	1,158	758	947	0	0	0	0
New Mexico	6,476	10,344	-37.4%	6,476	10,344	0	0	0	0	0	0
Utah	12,284	17,057	-28.0%	12,040	16,745	244	312	0	0	0	0
Wyoming	22,485	24,718	-9.0%	21,741	23,890	483	524	0	0	262	304
Pacific Contiguous	3,237	2,674	21.1%	0	0	3,055	2,485	0	0	182	189
California	165	175	-6.9%	0	0	0	0	0	0	165	175
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3,073	2,499	23.0%	0	0	3,055	2,485	0	0	18	14
Pacific Noncontiguous	566	1,170	-51.6%	373	334	99	759	94	77	0	0
Alaska	566	522	8.3%	373	334	99	112	94	77	0	0
Hawaii	0	648	-100.0%	0	0	0	648	0	0	0	0
U.S. Total	516,575	647,525	-20.2%	399,219	483,468	113,913	159,921	137	202	3,306	3,935

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

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

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.

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

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, September 2023 and 2022 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector					
	September 2023	September 2022	Percentage Change	Electric Utilities		Independent Power Producers		September 2023	September 2022	September 2023	September 2022				
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities						Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
				September 2023	September 2022	September 2023	September 2022					September 2023	September 2022	September 2023	September 2022
New England	26	6	354.7%	3	1	21	NM	NM	1	1	3				
Connecticut	10	NM	NM	0	0	9	NM	NM	0	0	0				
Maine	4	4	-2.0%	0	0	4	1	0	0	1	3				
Massachusetts	8	0	NM	2	0	6	-1	NM	0	0	0				
New Hampshire	2	0	327.7%	0	0	1	0	0	0	0	0				
Rhode Island	NM	NM	NM	0	0	NM	0	NM	NM	0	0				
Vermont	0	0	NM	0	0	0	0	0	0	0	0				
Middle Atlantic	37	27	38.6%	12	4	23	22	NM	0	1	1				
New Jersey	NM	1	NM	0	0	NM	1	NM	0	0	0				
New York	32	21	52.6%	12	3	19	17	NM	0	1	0				
Pennsylvania	5	5	-11.8%	NM	0	4	5	1	0	0	0				
East North Central	29	34	-15.1%	18	11	10	22	0	0	1	2				
Illinois	2	2	-11.5%	0	0	1	2	NM	0	0	0				
Indiana	6	6	7.2%	6	6	0	NM	0	0	NM	0				
Michigan	9	4	136.2%	9	3	0	0	NM	NM	0	1				
Ohio	10	21	-52.8%	1	1	8	20	0	0	1	1				
Wisconsin	NM	1	NM	NM	1	0	0	NM	0	NM	NM				
West North Central	32	-6	-613.8%	32	-7	NM	0	0	0	0	0				
Iowa	7	4	58.0%	7	4	NM	0	0	0	NM	0				
Kansas	4	-15	-127.2%	4	-15	0	0	0	0	0	0				
Minnesota	NM	-12	NM	NM	-13	NM	0	0	0	0	0				
Missouri	11	11	-6.9%	11	11	0	0	0	0	0	0				
Nebraska	NM	3	NM	NM	3	0	0	0	0	0	0				
North Dakota	4	2	142.9%	4	2	0	0	0	0	0	0				
South Dakota	NM	1	NM	NM	1	0	0	NM	0	0	0				
South Atlantic	69	103	-33.3%	40	77	15	6	2	2	12	19				
Delaware	NM	0	NM	1	0	NM	0	0	0	0	0				
District of Columbia	NM	0	NM	0	0	0	0	NM	NM	0	0				
Florida	11	36	-69.8%	9	34	0	0	0	0	1	NM				
Georgia	11	26	-58.7%	1	9	NM	1	0	0	10	16				
Maryland	11	4	194.7%	NM	0	11	4	0	0	0	0				
North Carolina	6	7	-14.7%	5	6	NM	0	NM	0	NM	1				
South Carolina	8	7	21.5%	7	6	0	0	0	0	0	0				
Virginia	12	15	-19.3%	8	13	2	0	1	1	1	1				
West Virginia	8	9	-9.4%	8	9	0	0	0	0	0	0				
East South Central	7	17	-57.2%	6	16	NM	0	0	0	1	0				
Alabama	2	0	477.3%	2	0	NM	0	0	0	1	0				
Kentucky	3	6	-49.9%	3	6	0	0	0	0	0	0				
Mississippi	0	1	-94.8%	0	1	0	0	0	0	0	0				
Tennessee	2	9	-78.7%	2	9	0	0	0	0	0	0				
West South Central	21	15	33.6%	10	6	10	9	NM	0	0	0				
Arkansas	4	4	8.0%	4	1	0	3	0	0	NM	0				
Louisiana	1	2	-20.4%	1	2	0	0	0	0	0	0				
Oklahoma	3	1	104.1%	3	1	0	0	0	0	0	0				
Texas	12	8	45.1%	2	2	10	6	NM	0	0	0				
Mountain	18	13	34.3%	16	12	2	1	NM	0	0	0				
Arizona	4	1	170.1%	4	1	0	0	NM	0	0	0				
Colorado	6	2	239.1%	6	2	0	0	0	0	0	0				
Idaho	0	0	--	0	0	0	0	0	0	0	0				
Montana	1	1	61.6%	NM	0	1	1	0	0	0	0				
Nevada	1	1	-50.6%	1	1	0	0	0	0	0	0				
New Mexico	NM	2	NM	NM	2	0	0	0	0	0	0				
Utah	2	3	-17.7%	2	3	0	0	0	0	0	0				
Wyoming	4	4	3.3%	4	4	0	0	0	0	0	0				
Pacific Contiguous	6	12	-53.0%	3	3	1	1	0	1	2	7				
California	3	11	-71.9%	3	3	0	1	0	1	NM	6				
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0				
Washington	3	1	110.5%	NM	0	1	0	0	0	2	1				
Pacific Noncontiguous	741	720	2.8%	593	557	130	149	0	0	18	14				
Alaska	59	58	1.3%	55	56	0	0	NM	0	4	3				
Hawaii	682	662	2.9%	537	502	130	149	0	0	14	11				
U.S. Total	985	942	4.6%	733	680	211	210	5	5	36	47				

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	350	1,354	-74.2%	26	34	296	1,281	17	20	11	19
Connecticut	137	210	-34.9%	3	3	130	203	1	3	3	1
Maine	53	184	-71.3%	0	0	45	166	0	1	7	17
Massachusetts	78	577	-86.5%	22	26	51	544	5	6	0	1
New Hampshire	54	342	-84.3%	0	0	45	334	8	8	0	0
Rhode Island	28	37	-25.1%	0	0	26	34	NM	NM	0	0
Vermont	NM	4	NM	NM	4	0	0	0	0	0	0
Middle Atlantic	418	1,480	-71.8%	127	598	265	859	12	12	14	11
New Jersey	43	40	7.7%	0	0	41	37	NM	1	0	1
New York	317	1,310	-75.8%	126	597	174	699	NM	8	10	6
Pennsylvania	58	130	-55.7%	0	1	50	123	4	3	3	4
East North Central	298	458	-34.9%	177	190	110	261	1	1	10	6
Illinois	17	28	-39.2%	4	4	12	23	0	0	0	0
Indiana	73	86	-15.3%	67	78	5	8	0	0	1	1
Michigan	75	78	-3.9%	71	74	0	0	NM	0	4	3
Ohio	106	243	-56.3%	10	11	92	229	1	0	4	2
Wisconsin	28	24	16.1%	25	22	1	1	NM	0	2	1
West North Central	280	25	NM	274	18	NM	3	1	2	2	2
Iowa	49	61	-19.6%	48	59	1	1	0	0	0	0
Kansas	38	-159	-124.1%	38	-159	0	0	0	0	0	0
Minnesota	36	-42	-184.0%	31	-47	NM	2	1	1	2	2
Missouri	71	107	-33.2%	71	106	0	0	0	0	0	0
Nebraska	28	26	9.4%	28	26	0	0	0	0	0	0
North Dakota	40	20	96.2%	39	20	0	0	0	0	0	0
South Dakota	19	13	47.5%	19	13	0	0	NM	0	0	0
South Atlantic	761	1,369	-44.4%	503	976	103	190	11	34	143	170
Delaware	10	21	-52.8%	1	4	9	17	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	187	358	-47.9%	168	337	8	9	0	0	11	NM
Georgia	139	221	-36.8%	27	72	NM	7	0	4	111	137
Maryland	47	87	-46.5%	-1	6	47	81	0	0	NM	NM
North Carolina	65	112	-42.6%	49	101	2	2	NM	2	13	7
South Carolina	81	117	-31.2%	73	107	3	3	0	0	5	8
Virginia	117	355	-67.1%	72	252	31	70	9	28	5	6
West Virginia	116	97	19.4%	114	97	2	0	0	0	0	0
East South Central	140	166	-15.5%	136	158	NM	0	0	0	4	8
Alabama	9	12	-21.1%	6	5	NM	0	0	0	3	7
Kentucky	45	49	-8.1%	45	49	0	0	0	0	0	0
Mississippi	5	5	-15.4%	3	5	0	0	0	0	1	0
Tennessee	81	100	-18.5%	81	98	0	0	0	0	0	1
West South Central	194	219	-11.4%	80	95	110	120	1	0	4	3
Arkansas	33	37	-10.8%	26	27	7	10	0	0	NM	0
Louisiana	6	10	-33.1%	6	10	0	0	0	0	0	0
Oklahoma	18	21	-17.0%	16	20	0	0	0	0	2	1
Texas	137	151	-9.3%	31	39	103	110	1	0	2	NM
Mountain	126	129	-2.4%	115	122	10	7	NM	0	0	0
Arizona	23	24	-6.1%	23	24	0	0	NM	0	0	0
Colorado	26	15	78.3%	26	15	0	0	0	0	0	0
Idaho	0	0	-33.6%	0	0	0	0	0	0	0	0
Montana	8	5	66.8%	NM	0	7	4	0	0	0	0
Nevada	5	7	-23.2%	5	5	1	2	0	0	0	0
New Mexico	NM	17	NM	NM	17	0	0	0	0	0	0
Utah	23	21	12.6%	21	20	2	1	0	0	0	0
Wyoming	36	40	-9.7%	36	40	0	0	0	0	0	0
Pacific Contiguous	88	90	-1.8%	34	26	7	39	4	3	44	23
California	60	69	-12.6%	26	25	2	33	3	3	30	9
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	27	21	31.0%	8	1	5	6	0	NM	14	13
Pacific Noncontiguous	6,089	5,357	13.7%	4,848	4,216	1,080	989	5	1	156	150
Alaska	651	634	2.6%	613	603	0	0	1	-2	37	33
Hawaii	5,438	4,722	15.2%	4,235	3,613	1,080	989	4	3	119	117
U.S. Total	8,744	10,647	-17.9%	6,320	6,432	1,984	3,750	52	73	388	392

Displayed values of zero may 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 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

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

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
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	279	245	13.7%	137	133	NM	98	0	0	14	14
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	145	133	8.7%	132	119	0	0	0	0	13	14
Ohio	NM	98	NM	0	0	NM	98	0	0	1	0
Wisconsin	5	14	-62.8%	5	14	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	84	95	-11.1%	73	86	0	0	0	0	NM	9
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	73	86	-15.6%	73	86	0	0	0	0	0	0
Georgia	NM	9	NM	0	0	0	0	0	0	NM	9
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	234	267	-12.2%	231	261	0	0	0	0	3	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	231	261	-11.4%	231	261	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	6	-47.9%	0	0	0	0	0	0	3	6
Mountain	38	41	-7.8%	0	0	38	41	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	38	41	-7.8%	0	0	38	41	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	635	648	-2.0%	441	480	166	140	0	0	NM	29

Displayed values of zero may 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 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Negative generation denotes that electric power consumed for plant use exceeds gross generation.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	1,751	1,885	-7.1%	864	1,052	765	724	0	0	122	109
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	945	1,034	-8.6%	824	925	0	0	0	0	120	109
Ohio	766	724	5.7%	0	0	765	724	0	0	1	0
Wisconsin	40	126	-68.5%	40	126	0	0	0	0	0	0
West North Central	1	8	-82.5%	0	0	0	0	1	8	0	0
Iowa	1	8	-82.5%	0	0	0	0	1	8	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	942	727	29.7%	866	633	0	0	0	0	NM	94
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	866	633	37.0%	866	633	0	0	0	0	0	0
Georgia	NM	94	NM	0	0	0	0	0	0	NM	94
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	18	-100.4%	0	18	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	18	-100.4%	0	18	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	1,021	2,234	-54.3%	973	2,159	0	0	0	0	48	75
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	973	2,159	-54.9%	973	2,159	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	48	75	-36.0%	0	0	0	0	0	0	48	75
Mountain	356	333	6.9%	0	0	356	333	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	356	333	6.9%	0	0	356	333	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	4,071	5,205	-21.8%	2,704	3,861	1,121	1,058	1	8	245	277

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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, September 2023 and 2022 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector					
	September 2023	September 2022	Percentage Change	Electric Utilities		Independent Power Producers		September 2023	September 2022	September 2023	September 2022				
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities						Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
				September 2023	September 2022	September 2023	September 2022					September 2023	September 2022	September 2023	September 2022
New England	4,893	4,880	0.3%	NM	7	4,684	4,654	99	79	99	140				
Connecticut	2,128	2,308	-7.8%	3	5	2,036	2,230	28	28	61	46				
Maine	291	543	-46.4%	0	0	279	475	3	3	9	65				
Massachusetts	1,245	1,013	22.9%	NM	3	1,161	953	63	44	13	14				
New Hampshire	427	427	0.0%	0	0	423	423	1	1	2	2				
Rhode Island	802	589	36.3%	0	0	784	573	4	3	14	13				
Vermont	0	0	-78.6%	0	0	0	0	0	0	0	0				
Middle Atlantic	20,715	19,416	6.7%	976	724	19,273	18,253	110	102	356	337				
New Jersey	2,828	3,112	-9.1%	NM	11	2,754	3,042	22	19	39	39				
New York	5,410	4,788	13.0%	961	708	4,323	3,961	75	69	52	50				
Pennsylvania	12,477	11,516	8.3%	2	4	12,197	11,250	14	13	265	249				
East North Central	19,999	16,187	23.6%	6,577	5,102	12,867	10,622	146	150	409	312				
Illinois	2,621	2,342	11.9%	276	273	2,225	1,966	41	48	80	55				
Indiana	2,801	2,353	19.0%	1,171	951	1,424	1,254	19	14	187	134				
Michigan	5,073	3,892	30.3%	2,240	1,644	2,730	2,149	53	56	50	42				
Ohio	7,261	5,950	22.0%	776	713	6,436	5,191	29	26	20	21				
Wisconsin	2,245	1,650	36.1%	2,114	1,521	52	62	5	6	73	61				
West North Central	4,078	3,105	31.4%	3,290	2,533	623	443	32	30	134	98				
Iowa	936	746	25.5%	877	703	NM	0	10	8	50	35				
Kansas	469	251	87.3%	429	224	0	0	0	0	41	27				
Minnesota	1,125	906	24.2%	747	588	331	279	9	10	37	29				
Missouri	973	775	25.6%	667	595	291	164	13	12	2	3				
Nebraska	206	146	41.2%	206	146	0	0	0	0	0	0				
North Dakota	174	136	28.1%	174	135	0	0	0	0	0	1				
South Dakota	194	146	33.2%	190	142	0	0	0	0	NM	4				
South Atlantic	37,380	37,272	0.3%	31,377	30,768	5,473	6,033	57	51	473	419				
Delaware	353	368	-4.1%	4	2	262	281	0	0	87	85				
District of Columbia	10	6	67.8%	0	0	0	0	10	6	0	0				
Florida	18,448	18,190	1.4%	17,486	16,941	803	1,109	NM	9	148	132				
Georgia	5,689	5,555	2.4%	4,514	4,290	1,105	1,205	0	0	70	60				
Maryland	1,105	1,345	-17.9%	222	403	854	914	24	24	4	4				
North Carolina	4,760	4,908	-3.0%	3,955	4,042	773	845	NM	11	20	10				
South Carolina	2,055	2,309	-11.0%	1,972	2,077	72	227	0	0	11	5				
Virginia	4,696	4,417	6.3%	3,212	2,996	1,414	1,360	0	1	69	60				
West Virginia	265	172	53.9%	12	19	190	91	0	0	63	62				
East South Central	12,711	12,198	4.2%	9,578	8,945	2,842	2,980	18	14	274	258				
Alabama	5,045	5,445	-7.4%	2,111	2,400	2,807	2,949	0	0	127	97				
Kentucky	1,269	1,247	1.8%	1,227	1,199	35	30	0	0	7	18				
Mississippi	4,983	4,184	19.1%	4,937	4,144	0	0	0	0	45	40				
Tennessee	1,414	1,321	7.1%	1,303	1,202	0	0	18	14	94	105				
West South Central	41,154	37,365	10.1%	14,822	13,054	20,485	18,890	135	95	5,713	5,326				
Arkansas	2,264	2,591	-12.6%	2,125	2,459	121	116	NM	4	15	11				
Louisiana	6,408	5,695	12.5%	3,907	3,267	406	295	NM	14	2,088	2,119				
Oklahoma	4,486	3,565	25.8%	2,848	2,224	1,609	1,298	0	0	28	43				
Texas	27,996	25,514	9.7%	5,941	5,103	18,349	17,180	124	77	3,582	3,153				
Mountain	11,795	11,516	2.4%	8,905	8,830	2,687	2,522	44	37	160	127				
Arizona	5,386	4,848	11.1%	3,599	3,274	1,775	1,562	12	12	0	0				
Colorado	1,306	1,316	-0.8%	1,079	1,041	212	258	0	0	15	16				
Idaho	456	454	0.4%	283	273	157	167	3	3	12	10				
Montana	61	85	-27.9%	55	56	6	29	0	0	NM	0				
Nevada	2,110	2,544	-17.1%	1,865	2,310	182	187	6	6	58	41				
New Mexico	1,182	1,100	7.5%	825	780	347	308	9	10	2	2				
Utah	1,140	1,034	10.2%	1,103	1,002	9	10	14	5	14	16				
Wyoming	154	135	14.3%	96	94	0	0	0	0	58	41				
Pacific Contiguous	11,445	14,758	-22.5%	4,640	5,765	5,853	8,037	126	139	825	818				
California	7,619	10,708	-28.8%	2,387	3,412	4,363	6,417	122	135	748	744				
Oregon	2,104	2,124	-1.0%	1,072	1,105	1,021	1,011	4	4	8	4				
Washington	1,721	1,925	-10.6%	1,181	1,248	470	609	0	0	70	69				
Pacific Noncontiguous	295	252	17.0%	290	246	0	0	0	0	5	6				
Alaska	295	252	17.0%	290	246	0	0	0	0	5	6				
Hawaii	0	0	--	0	0	0	0	0	0	0	0				
U.S. Total	164,466	156,948	4.8%	80,467	75,975	74,787	72,435	767	696	8,446	7,842				

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

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

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

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

by State, by Sector, Year-to-Date through September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	41,382	44,082	-6.1%	106	143	39,530	41,939	827	818	919	1,181
Connecticut	18,565	18,898	-1.8%	31	37	17,819	18,185	219	215	496	462
Maine	2,455	3,452	-28.9%	0	0	2,258	2,991	23	24	174	437
Massachusetts	11,249	12,692	-11.4%	NM	106	10,521	11,902	541	536	112	147
New Hampshire	3,406	3,805	-10.5%	0	0	3,377	3,778	9	6	20	22
Rhode Island	5,706	5,233	9.0%	0	0	5,556	5,083	33	37	117	114
Vermont	1	1	-15.6%	0	0	0	0	1	1	0	0
Middle Atlantic	178,429	171,907	3.8%	9,430	9,067	164,920	158,982	946	923	3,132	2,934
New Jersey	24,685	26,221	-5.9%	111	111	24,056	25,644	182	188	335	278
New York	45,044	46,806	-3.8%	9,307	8,928	34,656	36,813	641	607	439	457
Pennsylvania	108,700	98,880	9.9%	11	29	106,208	96,525	123	128	2,358	2,198
East North Central	170,832	140,895	21.2%	61,689	49,051	104,243	87,149	1,228	1,170	3,672	3,525
Illinois	21,251	15,174	40.0%	2,392	1,845	17,858	12,323	360	329	641	677
Indiana	26,895	23,813	12.9%	12,727	9,763	12,309	12,344	159	118	1,701	1,588
Michigan	42,405	30,816	37.6%	18,786	12,909	22,709	16,992	466	495	445	421
Ohio	58,781	52,590	11.8%	7,486	7,423	50,880	44,765	201	183	214	219
Wisconsin	21,500	18,501	16.2%	20,299	17,110	488	725	42	45	671	621
West North Central	35,457	25,170	40.9%	28,971	20,280	4,974	3,674	278	269	1,235	948
Iowa	8,336	5,824	43.1%	7,736	5,361	NM	0	87	68	513	394
Kansas	3,983	2,480	60.6%	3,663	2,300	0	0	0	0	320	180
Minnesota	10,814	7,143	51.4%	7,522	4,589	2,878	2,169	82	86	332	299
Missouri	7,081	6,391	10.8%	4,847	4,739	2,095	1,505	108	114	30	33
Nebraska	1,883	1,104	70.5%	1,882	1,104	0	0	1	0	0	0
North Dakota	1,513	1,110	36.3%	1,507	1,101	0	0	0	0	6	10
South Dakota	1,848	1,118	65.3%	1,813	1,085	0	0	0	0	34	32
South Atlantic	317,655	311,505	2.0%	265,871	260,636	47,254	46,903	503	427	4,028	3,539
Delaware	3,557	3,634	-2.1%	15	42	2,739	2,966	0	0	803	626
District of Columbia	85	64	31.9%	0	0	0	0	85	64	0	0
Florida	151,579	150,225	0.9%	143,542	140,743	6,730	8,181	97	82	1,210	1,219
Georgia	48,551	46,673	4.0%	38,213	35,999	9,717	10,108	0	0	621	566
Maryland	11,516	10,712	7.5%	3,455	3,157	7,810	7,346	212	172	40	38
North Carolina	41,227	43,168	-4.5%	34,103	36,177	6,863	6,773	95	97	166	121
South Carolina	18,694	18,965	-1.4%	18,105	17,622	481	1,258	0	0	109	86
Virginia	39,933	36,542	9.3%	28,048	26,549	11,236	9,409	15	13	634	571
West Virginia	2,512	1,520	65.2%	390	347	1,678	862	0	0	444	311
East South Central	113,110	114,417	-1.1%	82,933	83,601	27,577	28,252	154	150	2,445	2,414
Alabama	46,642	48,081	-3.0%	18,256	19,353	27,292	27,711	0	0	1,094	1,017
Kentucky	11,048	12,877	-14.2%	10,620	12,184	280	530	0	0	149	162
Mississippi	43,517	40,179	8.3%	43,107	39,799	5	5	0	0	406	376
Tennessee	11,903	13,280	-10.4%	10,951	12,265	0	6	154	150	797	859
West South Central	326,463	300,135	8.9%	121,941	111,143	154,591	139,248	893	699	49,038	49,044
Arkansas	19,748	19,629	0.6%	18,679	18,410	906	1,024	27	29	136	166
Louisiana	55,708	56,034	-0.6%	33,557	34,288	3,872	2,564	41	113	18,238	19,068
Oklahoma	35,999	27,835	29.3%	23,988	18,321	11,638	9,142	-1	-1	375	373
Texas	215,007	196,637	9.3%	45,717	40,124	138,175	126,517	827	558	30,289	29,438
Mountain	96,711	84,199	14.9%	75,665	65,242	19,438	17,508	364	302	1,244	1,146
Arizona	39,633	33,919	16.8%	27,595	23,312	11,941	10,505	98	102	0	0
Colorado	13,052	11,470	13.8%	10,961	9,803	1,966	1,534	2	3	123	130
Idaho	3,661	2,879	27.2%	2,215	1,651	1,322	1,122	30	28	94	77
Montana	719	420	71.4%	627	324	91	95	0	0	NM	1
Nevada	18,555	18,641	-0.5%	17,050	16,697	1,072	1,637	49	47	383	261
New Mexico	10,341	7,695	34.4%	7,246	5,067	2,968	2,533	75	81	53	14
Utah	9,134	8,049	13.5%	8,854	7,733	77	82	111	42	93	192
Wyoming	1,616	1,127	43.3%	1,117	656	1	0	0	0	498	471
Pacific Contiguous	95,910	90,628	5.8%	37,896	33,693	49,697	48,061	1,102	1,231	7,216	7,643
California	66,308	68,512	-3.2%	20,107	20,924	38,597	39,365	1,069	1,191	6,536	7,032
Oregon	16,595	12,975	27.9%	9,090	6,930	7,399	5,972	34	30	72	44
Washington	13,007	9,141	42.3%	8,698	5,839	3,701	2,724	0	10	608	568
Pacific Noncontiguous	2,598	2,399	8.3%	2,548	2,345	0	0	0	0	50	54
Alaska	2,598	2,399	8.3%	2,548	2,345	0	0	0	0	50	54
Hawaii	0	0	-	0	0	0	0	0	0	0	0
U.S. Total	1,378,547	1,285,336	7.3%	687,048	635,202	612,224	571,716	6,295	5,990	72,979	72,428

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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), 2013-September 2023
(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						
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	1,339,517	130,987	98,533	8,255	1,899	1,579,190
2022	1,421,927	145,023	109,059	8,808	2,250	1,687,067
Year 2021						
January	112,571	7,744	5,505	576	134	126,530
February	95,269	8,543	6,664	586	121	111,183
March	93,163	7,685	5,444	602	125	107,019
April	90,717	9,597	6,369	620	113	107,416
May	98,125	9,236	6,633	554	127	114,676
June	123,435	13,950	11,064	750	176	149,376
July	140,370	15,812	12,902	885	220	170,189
August	141,902	16,374	13,327	892	221	172,716
Sept	117,523	10,310	9,453	761	168	138,214
October	110,797	11,807	8,380	711	157	131,852
November	104,063	10,683	6,869	653	166	122,433
December	111,582	9,247	5,924	664	170	127,586
Year 2022						
January	116,628	10,595	6,918	652	155	134,948
February	100,075	8,174	6,006	553	137	114,945
March	98,525	7,814	5,440	558	139	112,477
April	90,511	8,805	5,507	541	142	105,506
May	105,644	11,956	8,742	610	142	127,094
June	126,835	15,732	12,016	756	179	155,517
July	151,829	19,422	16,583	958	250	189,042
August	155,761	17,838	13,937	1,045	280	188,860
Sept	133,059	12,892	9,909	869	219	156,948
October	114,000	9,862	8,687	743	200	133,492
November	108,068	10,459	8,079	723	194	127,523
December	120,993	11,473	7,234	801	215	140,716
Year 2023						
January	121,520	8,995	6,306	716	4	137,541
February	109,921	7,774	5,596	626	4	123,921
March	114,413	9,985	6,958	793	4	132,153
April	100,004	11,532	8,218	718	6	120,478
May	114,064	13,417	9,563	743	8	137,795
June	132,623	16,076	12,050	934	11	161,693
July	158,937	22,730	17,548	1,279	13	200,507
August	159,365	22,141	17,147	1,322	18	199,993
Sept	137,304	14,140	12,079	936	8	164,466

Values for 2022 and prior years are final. Values for 2023 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, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
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	45	8.8%	0	1	0	0	0	0	48	45
New Jersey	12	10	18.5%	0	0	1	0	0	0	11	10
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	37	35	5.9%	0	0	0	0	0	0	37	35
East North Central	354	391	-9.6%	0	0	159	182	0	0	194	209
Illinois	23	20	13.6%	0	0	0	0	0	0	23	20
Indiana	168	179	-6.3%	0	0	0	0	0	0	168	179
Michigan	114	130	-12.2%	0	0	114	130	0	0	0	0
Ohio	49	62	-21.2%	0	0	45	52	0	0	4	10
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	2	2	-20.0%	0	0	0	0	0	0	2	2
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	2	-20.0%	0	0	0	0	0	0	2	2
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	23	18	25.4%	0	0	0	0	0	0	23	18
Delaware	20	17	20.1%	0	0	0	0	0	0	20	17
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-49.9%	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	3	1	95.5%	0	0	0	0	0	0	3	1
East South Central	1	1	-37.5%	0	0	0	0	0	0	1	1
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-37.5%	0	0	0	0	0	0	1	1
West South Central	363	344	5.4%	0	0	117	124	0	0	246	220
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	159	157	1.0%	0	0	0	0	0	0	159	157
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	204	187	9.1%	0	0	117	124	0	0	87	62
Mountain	31	24	29.8%	0	0	0	0	0	0	31	24
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	0	NM	0	0	0	0	0	0	NM	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	-75.0%	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	1	0	NM	0	0	0	0	0	0	1	0
Wyoming	30	24	26.2%	0	0	0	0	0	0	30	24
Pacific Contiguous	129	160	-19.4%	0	0	0	0	0	0	129	160
California	108	139	-22.1%	0	0	0	0	0	0	108	139
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	20	21	-1.6%	0	0	0	0	0	0	20	21
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	951	987	-3.6%	0	0	277	306	0	0	674	680

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 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	426	513	-17.0%	0	0	15	0	0	0	410	513
New Jersey	115	87	31.8%	0	0	15	0	0	0	100	87
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	310	425	-27.0%	0	0	0	0	0	0	310	425
East North Central	3,177	3,376	-5.9%	0	0	1,396	1,479	0	0	1,781	1,897
Illinois	192	195	-1.4%	0	0	0	0	0	0	192	195
Indiana	1,478	1,642	-10.0%	0	0	0	0	0	0	1,478	1,642
Michigan	1,019	981	3.9%	0	0	1,019	981	0	0	0	0
Ohio	487	558	-12.6%	0	0	377	498	0	0	111	60
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	19	24	-21.4%	0	0	0	0	0	0	19	24
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	19	24	-21.4%	0	0	0	0	0	0	19	24
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	167	176	-5.2%	0	0	0	0	0	0	167	176
Delaware	139	147	-5.6%	0	0	0	0	0	0	139	147
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-59.2%	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	28	29	-3.3%	0	0	0	0	0	0	28	29
East South Central	8	9	-3.6%	0	0	0	0	0	0	8	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	8	9	-5.0%	0	0	0	0	0	0	8	9
West South Central	3,152	3,325	-5.2%	0	0	975	1,195	0	0	2,177	2,130
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,411	1,416	-0.3%	0	0	0	0	0	0	1,411	1,416
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,740	1,909	-8.8%	0	0	975	1,195	0	0	765	714
Mountain	265	248	6.9%	0	0	7	2	0	0	258	246
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	2	NM	0	0	0	0	0	0	NM	2
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	7	2	332.8%	0	0	7	2	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	2	3	-20.9%	0	0	0	0	0	0	2	3
Wyoming	252	241	4.6%	0	0	0	0	0	0	252	241
Pacific Contiguous	1,261	1,195	5.5%	0	0	0	0	0	0	1,261	1,195
California	1,086	1,008	7.7%	0	0	0	0	0	0	1,086	1,008
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	175	187	-6.5%	0	0	0	0	0	0	175	187
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	8,475	8,866	-4.4%	0	0	2,394	2,676	0	0	6,081	6,190

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells. NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power gross generated 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, September 2023 and 2022 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector			
	September 2023	September 2022	Percentage Change	Electric Utilities		Independent Power Producers		September 2023	September 2022	September 2023	September 2022		
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities						Generation at Utility Scale Facilities	
				September 2023	September 2022	September 2023	September 2022					September 2023	September 2022
New England	2,209	2,391	-7.6%	0	0	2,209	2,391	0	0	0	0		
Connecticut	1,312	1,495	-12.2%	0	0	1,312	1,495	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	897	897	0.0%	0	0	897	897	0	0	0	0		
Rhode Island	0	0	--	0	0	0	0	0	0	0	0		
Vermont	0	0	--	0	0	0	0	0	0	0	0		
Middle Atlantic	10,765	10,480	2.7%	0	0	10,765	10,480	0	0	0	0		
New Jersey	2,448	2,320	5.5%	0	0	2,448	2,320	0	0	0	0		
New York	2,114	1,729	22.3%	0	0	2,114	1,729	0	0	0	0		
Pennsylvania	6,203	6,432	-3.6%	0	0	6,203	6,432	0	0	0	0		
East North Central	12,364	12,726	-2.8%	2,150	2,229	10,215	10,497	0	0	0	0		
Illinois	7,828	8,169	-4.2%	0	0	7,828	8,169	0	0	0	0		
Indiana	0	0	--	0	0	0	0	0	0	0	0		
Michigan	2,150	2,229	-3.5%	2,150	2,229	0	0	0	0	0	0		
Ohio	1,539	1,475	4.4%	0	0	1,539	1,475	0	0	0	0		
Wisconsin	847	853	-0.7%	0	0	847	853	0	0	0	0		
West North Central	3,437	3,375	1.9%	3,437	3,375	0	0	0	0	0	0		
Iowa	0	0	--	0	0	0	0	0	0	0	0		
Kansas	871	870	0.2%	871	870	0	0	0	0	0	0		
Minnesota	1,162	1,227	-5.3%	1,162	1,227	0	0	0	0	0	0		
Missouri	837	872	-4.0%	837	872	0	0	0	0	0	0		
Nebraska	567	406	39.8%	567	406	0	0	0	0	0	0		
North Dakota	0	0	--	0	0	0	0	0	0	0	0		
South Dakota	0	0	--	0	0	0	0	0	0	0	0		
South Atlantic	17,012	15,723	8.2%	15,774	14,612	1,237	1,112	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	2,589	1,991	30.0%	2,589	1,991	0	0	0	0	0	0		
Georgia	3,112	2,950	5.5%	3,112	2,950	0	0	0	0	0	0		
Maryland	1,237	1,112	11.3%	0	0	1,237	1,112	0	0	0	0		
North Carolina	3,280	3,696	-11.3%	3,280	3,696	0	0	0	0	0	0		
South Carolina	4,746	4,055	17.1%	4,746	4,055	0	0	0	0	0	0		
Virginia	2,048	1,919	6.7%	2,048	1,919	0	0	0	0	0	0		
West Virginia	0	0	--	0	0	0	0	0	0	0	0		
East South Central	8,178	7,669	6.6%	8,178	7,669	0	0	0	0	0	0		
Alabama	3,904	3,360	16.2%	3,904	3,360	0	0	0	0	0	0		
Kentucky	0	0	--	0	0	0	0	0	0	0	0		
Mississippi	1,001	1,013	-1.1%	1,001	1,013	0	0	0	0	0	0		
Tennessee	3,273	3,296	-0.7%	3,273	3,296	0	0	0	0	0	0		
West South Central	6,376	6,097	4.6%	2,817	2,758	3,559	3,339	0	0	0	0		
Arkansas	1,288	1,229	4.7%	1,288	1,229	0	0	0	0	0	0		
Louisiana	1,529	1,528	0.1%	1,529	1,528	0	0	0	0	0	0		
Oklahoma	0	0	--	0	0	0	0	0	0	0	0		
Texas	3,559	3,339	6.6%	0	0	3,559	3,339	0	0	0	0		
Mountain	2,848	2,841	0.2%	2,848	2,841	0	0	0	0	0	0		
Arizona	2,848	2,841	0.2%	2,848	2,841	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	2,371	2,432	-2.5%	2,371	2,432	0	0	0	0	0	0		
California	1,551	1,612	-3.8%	1,551	1,612	0	0	0	0	0	0		
Oregon	0	0	--	0	0	0	0	0	0	0	0		
Washington	820	820	0.0%	820	820	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	65,560	63,733	2.9%	37,575	35,914	27,985	27,819	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 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	17,417	19,980	-12.8%	0	0	17,417	19,980	0	0	0	0
Connecticut	10,635	11,814	-10.0%	0	0	10,635	11,814	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	6,782	8,166	-16.9%	0	0	6,782	8,166	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	98,221	98,443	-0.2%	0	0	98,221	98,443	0	0	0	0
New Jersey	21,916	21,463	2.1%	0	0	21,916	21,463	0	0	0	0
New York	20,295	19,817	2.4%	0	0	20,295	19,817	0	0	0	0
Pennsylvania	56,010	57,163	-2.0%	0	0	56,010	57,163	0	0	0	0
East North Central	112,920	113,635	-0.6%	21,377	16,961	91,543	96,674	0	0	0	0
Illinois	72,747	73,847	-1.5%	0	0	72,747	73,847	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	21,377	19,692	8.6%	21,377	16,961	0	2,730	0	0	0	0
Ohio	11,378	12,681	-10.3%	0	0	11,378	12,681	0	0	0	0
Wisconsin	7,418	7,415	0.0%	0	0	7,418	7,415	0	0	0	0
West North Central	30,759	29,857	3.0%	30,759	29,857	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	7,713	7,688	0.3%	7,713	7,688	0	0	0	0	0	0
Minnesota	10,308	11,192	-7.9%	0	0	10,308	11,192	0	0	0	0
Missouri	7,580	6,149	23.3%	7,580	6,149	0	0	0	0	0	0
Nebraska	5,158	4,829	6.8%	5,158	4,829	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	155,550	153,941	1.0%	144,438	143,087	11,112	10,854	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	22,872	22,690	0.8%	22,872	22,690	0	0	0	0	0	0
Georgia	26,662	25,093	6.3%	26,662	25,093	0	0	0	0	0	0
Maryland	11,112	10,854	2.4%	0	0	11,112	10,854	0	0	0	0
North Carolina	31,465	31,710	-0.8%	31,465	31,710	0	0	0	0	0	0
South Carolina	41,324	41,857	-1.3%	41,324	41,857	0	0	0	0	0	0
Virginia	22,113	21,737	1.7%	22,113	21,737	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	71,652	64,980	10.3%	71,652	64,980	0	0	0	0	0	0
Alabama	34,125	32,981	3.5%	34,125	32,981	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	9,165	5,671	61.6%	9,165	5,671	0	0	0	0	0	0
Tennessee	28,362	26,329	7.7%	28,362	26,329	0	0	0	0	0	0
West South Central	51,859	55,198	-6.0%	21,461	23,594	30,398	31,604	0	0	0	0
Arkansas	10,910	12,002	-9.1%	10,910	12,002	0	0	0	0	0	0
Louisiana	10,551	11,592	-9.0%	10,551	11,592	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	30,398	31,604	-3.8%	0	0	30,398	31,604	0	0	0	0
Mountain	23,939	24,351	-1.7%	23,939	24,351	0	0	0	0	0	0
Arizona	23,939	24,351	-1.7%	23,939	24,351	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	20,472	21,071	-2.8%	20,472	21,071	0	0	0	0	0	0
California	14,494	13,770	5.3%	14,494	13,770	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	5,978	7,301	-18.1%	5,978	7,301	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	582,789	581,456	0.2%	334,098	323,901	248,691	257,555	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 2023 are preliminary. Values for 2022 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, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	519	337	54.1%	52	31	460	301	0	0	NM	4
Connecticut	26	15	73.1%	3	1	23	14	0	0	0	0
Maine	237	157	51.4%	0	0	231	153	0	0	NM	4
Massachusetts	69	45	54.4%	17	11	51	34	0	0	0	0
New Hampshire	95	61	55.5%	NM	1	95	61	0	0	0	0
Rhode Island	NM	0	NM	0	0	NM	0	0	0	0	0
Vermont	90	59	54.4%	31	19	60	39	0	0	0	0
Middle Atlantic	2,428	2,358	3.0%	1,894	1,835	530	520	0	0	4	2
New Jersey	1	0	-	0	0	1	0	0	0	0	0
New York	2,220	2,154	3.1%	1,892	1,832	323	319	0	0	4	2
Pennsylvania	207	204	1.7%	2	3	205	201	0	0	0	0
East North Central	226	354	-36.3%	195	314	25	31	NM	0	6	9
Illinois	NM	8	NM	NM	5	NM	3	0	0	0	0
Indiana	30	30	-2.2%	29	30	0	0	NM	0	0	0
Michigan	60	112	-46.4%	57	107	NM	5	0	0	NM	1
Ohio	39	41	-4.3%	25	26	14	15	0	0	0	0
Wisconsin	88	163	-45.6%	79	146	NM	9	0	0	5	8
West North Central	535	670	-20.2%	522	648	NM	16	0	0	3	7
Iowa	32	59	-45.6%	32	58	0	0	0	0	0	0
Kansas	1	1	-34.7%	0	0	1	1	0	0	0	0
Minnesota	39	64	-39.3%	26	42	NM	15	0	0	3	7
Missouri	105	86	22.7%	105	86	0	0	0	0	0	0
Nebraska	50	69	-27.1%	50	69	0	0	0	0	0	0
North Dakota	86	116	-25.9%	86	116	0	0	0	0	0	0
South Dakota	222	276	-19.5%	222	276	0	0	0	0	0	0
South Atlantic	1,161	1,069	8.6%	902	870	216	164	0	1	43	34
Delaware	0	0	-	0	0	0	0	0	0	0	0
District of Columbia	0	0	-	0	0	0	0	0	0	0	0
Florida	18	15	22.5%	18	15	0	0	0	0	0	0
Georgia	258	297	-13.1%	256	295	NM	0	0	0	NM	1
Maryland	112	70	59.0%	0	0	112	70	0	0	0	0
North Carolina	372	359	3.8%	313	301	59	57	0	1	NM	0
South Carolina	179	138	29.4%	174	134	NM	4	0	0	0	0
Virginia	94	86	9.1%	86	79	8	7	0	0	0	0
West Virginia	128	104	23.1%	56	46	31	25	0	0	41	33
East South Central	1,836	1,601	14.7%	1,774	1,550	62	51	0	0	0	0
Alabama	739	665	11.1%	739	665	0	0	0	0	0	0
Kentucky	376	339	10.8%	375	338	NM	1	0	0	0	0
Mississippi	0	0	-	0	0	0	0	0	0	0	0
Tennessee	721	597	20.8%	660	546	61	51	0	0	0	0
West South Central	539	475	13.7%	456	401	83	74	0	0	0	0
Arkansas	273	242	12.8%	267	236	NM	6	0	0	0	0
Louisiana	73	64	14.3%	0	0	73	64	0	0	0	0
Oklahoma	140	124	13.3%	140	124	0	0	0	0	0	0
Texas	53	45	18.5%	49	41	4	4	0	0	0	0
Mountain	1,459	1,898	-23.2%	1,395	1,821	60	73	NM	4	0	0
Arizona	356	372	-4.4%	356	372	0	0	0	0	0	0
Colorado	96	89	8.0%	83	74	NM	13	2	2	0	0
Idaho	400	566	-29.3%	363	520	37	46	0	0	0	0
Montana	435	669	-34.9%	430	660	NM	8	0	0	0	0
Nevada	87	103	-15.6%	83	98	NM	5	0	0	0	0
New Mexico	NM	8	NM	NM	8	0	0	0	0	0	0
Utah	34	40	-13.6%	32	38	1	0	NM	2	0	0
Wyoming	41	51	-19.9%	39	50	2	2	0	0	0	0
Pacific Contiguous	7,711	8,145	-5.3%	7,522	8,024	188	120	NM	0	0	0
California	2,863	1,729	65.6%	2,700	1,634	162	94	NM	0	0	0
Oregon	1,509	1,939	-22.2%	1,498	1,926	NM	13	0	0	0	0
Washington	3,339	4,477	-25.4%	3,324	4,464	NM	13	0	0	0	0
Pacific Noncontiguous	82	119	-31.1%	69	99	0	4	NM	12	NM	4
Alaska	77	111	-30.5%	69	99	0	0	NM	12	0	0
Hawaii	NM	8	NM	0	0	0	4	0	0	NM	4
U.S. Total	16,496	17,026	-3.1%	14,782	15,593	1,634	1,354	NM	18	66	60

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	4,973	4,958	0.3%	504	468	4,407	4,427	4	4	58	59
Connecticut	247	235	5.2%	29	22	219	213	0	0	0	0
Maine	2,283	2,300	-0.7%	NM	1	2,224	2,240	0	0	58	59
Massachusetts	667	659	1.3%	170	157	493	498	4	4	0	0
New Hampshire	905	902	0.3%	NM	8	897	894	0	0	0	0
Rhode Island	NM	6	NM	0	0	NM	6	0	0	0	0
Vermont	865	867	1.0%	296	280	569	577	0	0	0	0
Middle Atlantic	22,655	22,838	-0.8%	17,576	17,765	5,032	5,040	4	4	43	30
New Jersey	9	5	86.7%	0	0	9	5	0	0	0	0
New York	20,652	20,823	-0.8%	17,520	17,696	3,085	3,092	4	4	43	30
Pennsylvania	1,994	2,011	-0.8%	56	68	1,938	1,943	0	0	0	0
East North Central	2,775	3,300	-15.9%	2,422	2,906	266	311	NM	2	79	81
Illinois	72	91	-20.9%	47	45	25	46	0	0	0	0
Indiana	281	279	0.9%	272	276	0	0	NM	2	0	0
Michigan	828	1,043	-20.6%	780	992	41	43	0	0	NM	8
Ohio	376	382	-1.5%	239	243	136	139	0	0	0	0
Wisconsin	1,218	1,506	-19.1%	1,083	1,350	63	83	0	0	72	73
West North Central	6,741	8,343	-19.2%	6,551	8,082	147	204	0	0	44	57
Iowa	594	820	-27.6%	590	816	4	4	0	0	0	0
Kansas	12	21	-44.4%	0	0	12	21	0	0	0	0
Minnesota	549	753	-27.1%	374	517	131	179	0	0	44	57
Missouri	1,003	1,111	-9.7%	1,003	1,111	0	0	0	0	0	0
Nebraska	661	839	-21.2%	661	839	0	0	0	0	0	0
North Dakota	1,126	1,421	-20.7%	1,126	1,421	0	0	0	0	0	0
South Dakota	2,797	3,378	-17.2%	2,797	3,378	0	0	0	0	0	0
South Atlantic	11,429	11,541	-1.0%	8,607	8,728	2,404	2,385	10	9	408	420
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	172	180	-4.3%	172	180	0	0	0	0	0	0
Georgia	2,437	2,564	-5.0%	2,412	2,549	NM	5	0	0	NM	10
Maryland	1,398	1,367	2.2%	0	0	1,398	1,367	0	0	0	0
North Carolina	3,575	3,552	0.6%	2,996	2,976	567	568	8	9	NM	0
South Carolina	1,708	1,698	0.6%	1,664	1,650	43	48	2	0	0	0
Virginia	910	896	1.6%	823	811	87	85	0	0	0	0
West Virginia	1,228	1,283	-4.2%	539	562	298	311	0	0	391	409
East South Central	17,857	18,754	-4.8%	17,267	18,125	590	629	0	0	0	0
Alabama	7,453	7,964	-6.4%	7,453	7,964	0	0	0	0	0	0
Kentucky	3,535	3,493	1.2%	3,524	3,482	NM	11	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	6,869	7,296	-5.9%	6,290	6,679	580	618	0	0	0	0
West South Central	5,254	5,260	-0.1%	4,471	4,473	783	787	NM	0	0	0
Arkansas	2,632	2,697	-2.4%	2,585	2,656	47	41	0	0	0	0
Louisiana	703	711	-1.1%	0	0	703	711	0	0	0	0
Oklahoma	1,330	1,374	-3.2%	1,330	1,374	0	0	0	0	0	0
Texas	589	478	23.3%	556	444	33	34	NM	0	0	0
Mountain	19,018	22,726	-16.3%	18,237	21,827	749	860	32	39	0	0
Arizona	4,672	4,290	8.9%	4,672	4,290	0	0	0	0	0	0
Colorado	1,101	1,124	-2.1%	942	958	147	153	11	13	0	0
Idaho	5,251	6,775	-22.5%	4,784	6,229	467	546	0	0	0	0
Montana	5,931	8,012	-26.0%	5,856	7,911	75	101	0	0	0	0
Nevada	1,041	1,342	-22.4%	999	1,295	42	47	0	0	0	0
New Mexico	96	98	-2.0%	96	98	0	0	0	0	0	0
Utah	426	480	-11.4%	396	451	9	4	NM	25	0	0
Wyoming	500	605	-17.3%	492	595	9	9	0	0	0	0
Pacific Contiguous	92,687	102,931	-10.0%	90,793	101,732	1,879	1,192	NM	7	0	0
California	26,930	14,571	84.8%	25,377	13,719	1,538	845	NM	7	0	0
Oregon	18,683	24,745	-24.5%	18,544	24,578	139	167	0	0	0	0
Washington	47,074	63,615	-26.0%	46,873	63,435	202	180	0	0	0	0
Pacific Noncontiguous	1,119	1,441	-22.4%	941	1,219	17	30	113	145	48	47
Alaska	1,049	1,359	-22.8%	936	1,214	0	0	113	145	0	0
Hawaii	70	82	-15.2%	5	5	17	30	0	0	48	47
U.S. Total	184,509	202,094	-8.7%	167,368	185,324	16,273	15,866	188	210	680	694

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	839	906	-7.4%	33	36	707	765	43	48	56	58
Connecticut	66	68	-4.2%	0	0	64	68	NM	1	NM	0
Maine	294	349	-15.7%	0	0	239	289	0	3	55	57
Massachusetts	270	268	0.9%	11	12	220	215	38	40	NM	0
New Hampshire	83	102	-17.9%	0	0	80	98	3	4	0	0
Rhode Island	69	63	9.8%	0	0	68	62	0	1	0	0
Vermont	57	57	-0.7%	22	23	35	34	0	0	0	0
Middle Atlantic	1,166	1,090	7.0%	22	11	990	926	111	114	43	40
New Jersey	196	197	-0.8%	10	11	148	145	37	41	NM	1
New York	617	540	14.3%	12	0	538	470	55	57	12	13
Pennsylvania	353	353	0.1%	0	0	304	311	18	16	31	26
East North Central	3,332	3,282	1.5%	563	505	2,681	2,675	10	11	78	90
Illinois	1,373	1,398	-1.8%	8	8	1,364	1,389	NM	0	0	0
Indiana	657	600	9.5%	148	67	506	529	0	0	4	4
Michigan	710	753	-5.6%	238	278	430	421	3	3	39	51
Ohio	295	260	13.3%	NM	1	279	242	1	1	14	16
Wisconsin	297	271	9.5%	168	152	101	93	6	6	22	20
West North Central	8,937	10,225	-12.6%	3,113	3,645	5,748	6,516	19	19	58	45
Iowa	2,840	3,153	-9.9%	2,012	2,342	821	803	1	2	6	7
Kansas	1,978	2,236	-11.5%	178	178	1,798	2,055	NM	1	NM	1
Minnesota	1,264	1,325	-4.6%	352	362	852	915	11	13	49	35
Missouri	464	494	-6.2%	164	173	296	321	4	1	0	0
Nebraska	808	937	-13.8%	12	13	794	923	2	1	0	0
North Dakota	962	1,306	-26.3%	309	458	654	848	0	0	0	0
South Dakota	622	773	-19.6%	86	120	534	650	0	0	NM	2
South Atlantic	5,141	4,874	5.5%	1,543	1,267	2,833	2,800	82	83	683	724
Delaware	18	12	53.4%	NM	1	15	9	NM	0	1	2
District of Columbia	7	6	5.5%	NM	0	2	2	4	4	0	0
Florida	1,490	1,176	26.7%	1,156	870	174	169	38	32	121	105
Georgia	1,110	1,104	0.5%	57	58	788	716	NM	0	265	330
Maryland	131	120	9.1%	NM	1	129	117	2	3	0	0
North Carolina	1,193	1,212	-1.6%	70	74	1,033	1,033	10	11	80	95
South Carolina	405	361	12.1%	4	5	274	256	0	0	126	100
Virginia	707	734	-3.7%	255	258	337	351	27	33	89	92
West Virginia	81	148	-45.4%	0	0	81	148	0	0	0	0
East South Central	688	674	2.1%	31	31	281	211	NM	1	375	431
Alabama	349	345	1.1%	2	2	123	92	0	0	224	250
Kentucky	54	45	19.7%	11	11	16	1	NM	0	26	33
Mississippi	147	175	-16.3%	18	17	40	42	0	0	89	116
Tennessee	138	108	27.6%	NM	0	102	75	NM	0	36	32
West South Central	14,111	11,607	21.6%	266	263	13,580	11,019	2	4	283	321
Arkansas	142	152	-6.6%	23	26	67	48	2	2	50	76
Louisiana	184	195	-5.9%	3	4	31	30	0	0	150	162
Oklahoma	2,831	2,510	12.8%	178	172	2,648	2,328	-1	0	7	9
Texas	10,954	8,750	25.2%	62	61	10,835	8,613	NM	2	57	74
Mountain	6,500	5,874	10.7%	997	987	5,461	4,841	11	11	31	36
Arizona	832	728	14.6%	56	59	771	661	2	2	NM	3
Colorado	1,532	1,426	7.4%	300	315	1,231	1,111	NM	1	0	0
Idaho	270	255	5.8%	37	12	206	211	2	2	26	30
Montana	337	210	60.9%	53	60	282	148	0	0	2	2
Nevada	1,236	1,169	5.7%	16	17	1,215	1,147	4	4	NM	1
New Mexico	1,247	1,155	7.9%	206	243	1,040	912	NM	0	0	0
Utah	485	442	9.6%	24	22	460	419	1	1	0	0
Wyoming	561	490	14.4%	304	259	257	231	0	0	0	0
Pacific Contiguous	7,900	7,443	6.1%	563	577	7,075	6,577	76	87	187	201
California	6,284	5,814	8.1%	145	158	5,990	5,483	73	84	75	90
Oregon	934	958	-2.5%	130	127	763	793	2	3	39	35
Washington	682	671	1.6%	288	292	321	302	NM	1	73	76
Pacific Noncontiguous	191	152	26.2%	12	15	163	119	16	18	0	0
Alaska	13	14	-5.7%	NM	6	NM	4	4	3	0	0
Hawaii	178	138	29.4%	8	9	158	114	13	14	0	0
U.S. Total	48,806	46,126	5.8%	7,144	7,336	39,518	36,449	370	396	1,775	1,945

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (Thousand Megawatthours)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	Electric Utilities		Independent Power Producers		September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities					
				September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD				
New England	8,728	9,314	-6.3%	456	517	7,366	7,787	392	429	513	582
Connecticut	673	773	-12.9%	0	1	664	767	5	5	5	0
Maine	3,425	3,655	-6.3%	0	0	2,919	3,052	6	25	500	578
Massachusetts	2,419	2,468	-2.0%	96	112	1,967	1,995	349	358	NM	4
New Hampshire	888	1,011	-12.2%	0	0	860	976	28	35	0	0
Rhode Island	626	611	2.5%	0	0	622	605	4	5	0	0
Vermont	697	797	-12.6%	360	404	336	392	1	1	0	0
Middle Atlantic	12,272	11,620	5.6%	238	97	10,653	10,035	976	1,037	405	452
New Jersey	1,779	1,761	1.0%	91	97	1,323	1,281	362	379	3	5
New York	6,637	5,953	11.5%	147	0	5,919	5,319	459	497	112	137
Pennsylvania	3,856	3,905	-1.3%	0	0	3,412	3,435	154	160	290	310
East North Central	40,072	41,076	-2.4%	6,189	5,885	32,967	34,122	104	119	812	950
Illinois	17,107	18,034	-5.1%	83	89	17,020	17,941	NM	4	0	0
Indiana	8,170	8,093	1.0%	973	594	7,161	7,451	1	11	35	36
Michigan	8,505	8,707	-2.3%	3,272	3,578	4,826	4,641	33	32	374	456
Ohio	3,216	3,411	-5.7%	11	10	3,000	3,161	12	13	192	228
Wisconsin	3,074	2,832	8.6%	1,849	1,614	960	928	54	60	211	230
West North Central	94,233	103,345	-8.8%	34,192	37,600	59,334	64,975	143	213	563	558
Iowa	30,369	33,189	-8.5%	21,766	24,774	8,544	8,342	8	17	52	55
Kansas	19,708	22,531	-12.5%	1,886	1,557	17,803	20,953	11	12	NM	10
Minnesota	12,977	13,253	-2.1%	3,702	3,687	8,715	8,961	78	137	481	468
Missouri	5,079	5,592	-9.2%	2,002	2,111	3,043	3,445	32	33	2	2
Nebraska	8,899	9,031	-1.5%	134	129	8,751	8,888	14	14	0	0
North Dakota	10,467	12,162	-13.9%	3,659	4,178	6,807	7,984	0	0	0	0
South Dakota	6,734	7,588	-11.3%	1,044	1,165	5,671	6,401	0	0	19	22
South Atlantic	48,099	45,837	4.9%	14,406	12,596	26,404	25,375	810	835	6,480	7,031
Delaware	189	115	65.2%	5	5	164	88	5	6	14	15
District of Columbia	64	61	4.0%	NM	0	20	18	43	43	0	0
Florida	13,852	12,038	15.1%	10,781	8,810	1,547	1,618	348	340	1,177	1,268
Georgia	9,945	9,848	1.0%	507	550	6,879	6,374	NM	1	2,558	2,922
Maryland	1,338	1,152	16.2%	6	7	1,312	1,124	20	21	0	0
North Carolina	10,735	10,977	-2.2%	606	646	9,276	9,379	90	97	764	854
South Carolina	3,666	3,530	3.8%	46	49	2,521	2,465	0	0	1,099	1,017
Virginia	6,810	6,689	1.8%	2,455	2,528	3,186	2,881	302	327	867	954
West Virginia	1,500	1,427	5.1%	0	0	1,500	1,427	0	0	0	0
East South Central	6,283	5,819	8.0%	274	142	2,228	1,737	5	6	3,775	3,934
Alabama	3,273	3,152	3.8%	19	21	962	744	0	0	2,292	2,367
Kentucky	444	378	17.4%	103	102	100	10	2	2	238	263
Mississippi	1,447	1,410	2.6%	149	17	347	386	0	0	950	1,007
Tennessee	1,119	890	27.2%	2	2	819	597	3	4	295	277
West South Central	144,389	137,835	4.8%	2,385	2,619	139,273	132,159	40	50	2,691	3,007
Arkansas	1,127	1,246	-9.5%	194	207	395	411	15	16	523	612
Louisiana	1,706	1,749	-2.5%	31	34	264	171	0	0	1,410	1,545
Oklahoma	28,021	28,606	-2.0%	1,761	1,868	26,075	26,517	-7	-6	193	227
Texas	113,535	106,234	6.9%	399	510	112,539	105,061	32	40	565	623
Mountain	63,477	61,225	3.7%	11,034	11,604	52,048	49,221	104	95	291	305
Arizona	7,344	7,074	3.8%	465	564	6,838	6,479	20	18	21	12
Colorado	14,688	14,767	-0.5%	3,191	3,430	11,482	11,328	14	7	2	2
Idaho	2,805	2,672	5.0%	343	130	2,195	2,251	22	23	244	268
Montana	3,376	2,789	21.0%	680	766	2,680	2,010	0	0	15	14
Nevada	11,188	10,429	7.3%	153	158	10,991	10,224	36	39	8	9
New Mexico	13,435	12,204	10.1%	2,423	2,396	11,010	9,807	NM	1	0	0
Utah	4,163	4,095	1.7%	216	197	3,937	3,891	10	7	0	0
Wyoming	6,478	7,196	-10.0%	3,563	3,963	2,915	3,233	0	0	0	0
Pacific Contiguous	72,762	72,119	0.9%	5,682	5,922	64,578	63,671	710	748	1,792	1,777
California	56,066	56,033	0.1%	1,356	1,508	53,317	53,075	682	717	711	733
Oregon	9,653	8,795	9.8%	1,301	1,080	7,930	7,313	20	23	402	379
Washington	7,043	7,291	-3.4%	3,025	3,334	3,332	3,283	8	8	679	666
Pacific Noncontiguous	1,578	1,388	13.7%	130	138	1,309	1,089	139	160	0	0
Alaska	127	136	-6.3%	60	61	39	44	29	30	0	0
Hawaii	1,451	1,252	15.9%	70	77	1,270	1,045	110	130	0	0
U.S. Total	491,894	489,577	0.5%	74,986	77,121	396,162	390,169	3,424	3,691	17,323	18,596

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

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

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

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	-23	-23	0.1%	0	0	-23	-23	0	0	0	0
Connecticut	1	0	462.3%	0	0	1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-25	-23	4.8%	0	0	-25	-23	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	-150	-122	23.1%	-45	-40	-105	-81	0	0	0	0
New Jersey	-17	-11	55.7%	0	0	-17	-11	0	0	0	0
New York	-45	-40	10.7%	-45	-40	0	0	0	0	0	0
Pennsylvania	-88	-70	25.1%	0	0	-88	-70	0	0	0	0
East North Central	-87	-97	-9.7%	-87	-97	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	-87	-97	-9.7%	-87	-97	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	-15	-14	7.0%	-15	-14	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	-15	-14	7.0%	-15	-14	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	-273	-304	-10.2%	-273	-304	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	-87	-79	9.5%	-87	-79	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	-41	-68	-39.7%	-41	-68	0	0	0	0	0	0
Virginia	-146	-157	-7.2%	-146	-157	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-64	-57	12.3%	-64	-57	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	-64	-57	12.3%	-64	-57	0	0	0	0	0	0
West South Central	1	-10	-113.7%	1	-10	0	0	0	0	0	0
Arkansas	3	2	84.2%	3	2	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-2	-12	-82.5%	-2	-12	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	10	14	-32.0%	10	14	0	0	0	0	0	0
Arizona	7	18	-63.5%	7	18	0	0	0	0	0	0
Colorado	3	-4	-171.3%	3	-4	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	57	14	303.7%	57	14	0	0	0	0	0	0
California	58	14	298.4%	58	14	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	11.8%	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	-544	-598	-9.1%	-415	-493	-129	-105	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 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	-314	-290	8.2%	0	0	-314	-290	0	0	0	0
Connecticut	0	1	-112.9%	0	0	0	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-314	-291	7.6%	0	0	-314	-291	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	-1,019	-1,070	-4.7%	-280	-356	-739	-714	0	0	0	0
New Jersey	-132	-125	5.9%	0	0	-132	-125	0	0	0	0
New York	-280	-356	-21.3%	-280	-356	0	0	0	0	0	0
Pennsylvania	-607	-589	3.0%	0	0	-607	-589	0	0	0	0
East North Central	-652	-656	-0.5%	-652	-656	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	-652	-656	-0.5%	-652	-656	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	-27	185	-114.6%	-27	185	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	-27	185	-114.6%	-27	185	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	-1,956	-2,374	-17.6%	-1,956	-2,374	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	-396	-481	-17.7%	-396	-481	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	-376	-665	-43.4%	-376	-665	0	0	0	0	0	0
Virginia	-1,184	-1,228	-3.5%	-1,184	-1,228	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-446	-390	14.3%	-446	-390	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	-446	-390	14.3%	-446	-390	0	0	0	0	0	0
West South Central	42	-10	-530.0%	42	-10	0	0	0	0	0	0
Arkansas	95	59	60.9%	95	59	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-53	-69	-23.2%	-53	-69	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	135	91	48.8%	135	91	0	0	0	0	0	0
Arizona	136	92	48.7%	136	92	0	0	0	0	0	0
Colorado	-2	-1	41.3%	-2	-1	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	-443	-37	NM	-443	-37	0	0	0	0	0	0
California	-442	-48	820.4%	-442	-48	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-2	11	-114.1%	-2	11	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	-4,680	-4,550	2.9%	-3,627	-3,546	-1,053	-1,004	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 2023 are preliminary. Values for 2022 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, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	129	139	-7.4%	0	0	76	81	42	47	10	11
Connecticut	30	36	-18.0%	0	0	30	36	0	0	0	0
Maine	16	20	-19.8%	0	0	5	6	0	3	10	11
Massachusetts	78	79	-0.7%	0	0	36	35	42	44	0	0
New Hampshire	5	4	13.8%	0	0	5	4	0	0	0	0
Rhode Island	0	0	-100.0%	0	0	0	0	0	0	0	0
Vermont	0	0	40.2%	0	0	0	0	0	0	0	0
Middle Atlantic	202	193	4.9%	0	0	85	75	114	118	3	0
New Jersey	43	41	6.4%	0	0	11	9	29	32	3	0
New York	85	84	1.5%	0	0	19	16	67	69	0	0
Pennsylvania	74	68	8.4%	0	0	56	51	18	17	0	0
East North Central	70	81	-13.7%	2	1	6	6	3	4	59	70
Illinois	23	23	0.7%	0	0	0	-1	0	0	23	24
Indiana	35	44	-20.4%	0	0	0	0	0	0	35	44
Michigan	9	12	-22.2%	0	0	6	7	3	4	0	1
Ohio	0	0	13.8%	0	0	0	0	0	0	0	1
Wisconsin	2	1	28.0%	2	1	0	0	0	0	0	NM
West North Central	28	27	2.1%	12	9	12	14	NM	4	0	0
Iowa	0	0	-67.4%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	27	26	1.6%	12	8	12	14	NM	4	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	NM	1	NM	NM	1	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	271	256	5.6%	-4	-4	91	109	77	76	107	75
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	184	184	0.0%	-4	-4	70	86	45	37	73	65
Georgia	6	7	-10.7%	0	0	0	-1	0	0	6	7
Maryland	22	24	-8.1%	0	0	22	24	0	0	0	0
North Carolina	23	0	NM	0	0	0	0	0	0	23	0
South Carolina	5	3	54.5%	0	0	0	1	0	0	5	2
Virginia	32	40	-19.8%	0	0	0	0	32	40	0	0
West Virginia	-1	-1	6.3%	0	0	-1	-1	0	0	0	0
East South Central	11	7	54.5%	11	7	0	0	0	0	0	0
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	11	7	59.8%	11	7	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	-90.4%	0	0	0	0	0	0	0	0
West South Central	52	66	-21.7%	3	16	-11	-4	-1	0	61	54
Arkansas	0	0	-47.0%	0	0	0	0	0	0	0	0
Louisiana	21	50	-58.4%	0	16	0	0	0	0	21	34
Oklahoma	2	0	NM	3	0	0	0	-1	0	0	0
Texas	29	16	80.2%	0	0	-11	-4	0	0	40	20
Mountain	33	47	-30.3%	5	6	11	19	0	0	17	22
Arizona	-2	-1	137.3%	0	0	-1	0	0	0	0	0
Colorado	1	4	-65.2%	0	0	-2	0	0	0	4	4
Idaho	5	3	90.8%	0	0	0	0	0	0	5	3
Montana	20	22	-10.3%	0	0	20	22	0	0	0	0
Nevada	-2	0	NM	2	2	-4	-2	0	0	0	0
New Mexico	-2	0	NM	0	0	-1	0	0	0	0	0
Utah	NM	11	NM	NM	4	0	0	0	0	0	7
Wyoming	8	8	-5.4%	0	0	0	0	0	0	8	8
Pacific Contiguous	-35	12	-398.6%	-3	-2	-56	-26	4	7	20	33
California	-41	3	NM	-3	-2	-62	-35	4	7	20	33
Oregon	1	3	-79.5%	0	0	1	3	0	0	0	0
Washington	5	5	0.5%	0	0	5	5	0	0	0	0
Pacific Noncontiguous	14	17	-13.2%	0	0	0	0	15	17	0	0
Alaska	0	0	-28.5%	0	0	0	0	0	0	0	0
Hawaii	15	17	-13.4%	0	0	0	0	15	17	0	0
U.S. Total	775	845	-8.3%	26	33	213	275	258	272	278	265

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	1,256	1,320	-4.8%	3	2	772	798	381	412	101	107
Connecticut	316	382	-17.2%	0	0	316	382	0	0	0	0
Maine	208	207	0.5%	0	0	100	70	7	30	101	108
Massachusetts	691	691	0.0%	0	-1	317	310	374	382	0	0
New Hampshire	38	38	1.0%	0	0	38	38	0	0	0	0
Rhode Island	0	-1	-100.0%	0	0	0	-1	0	0	0	0
Vermont	3	2	3.0%	3	3	0	0	0	0	0	0
Middle Atlantic	1,761	1,754	0.4%	0	0	765	692	992	1,059	3	4
New Jersey	393	397	-1.0%	0	0	95	88	294	305	3	4
New York	713	741	-3.8%	0	0	163	145	550	596	0	0
Pennsylvania	656	617	6.3%	0	0	507	459	148	158	0	0
East North Central	679	683	-0.6%	17	16	56	50	38	51	568	566
Illinois	204	203	0.8%	0	0	-7	-4	0	0	211	206
Indiana	350	356	-1.8%	0	0	0	0	0	12	350	344
Michigan	101	106	-4.6%	0	0	63	57	38	39	0	10
Ohio	7	2	324.7%	0	0	0	-3	0	0	7	5
Wisconsin	17	17	2.1%	17	16	0	0	0	0	0	NM
West North Central	229	243	-6.0%	98	102	102	110	27	30	2	1
Iowa	0	0	-71.5%	0	0	0	0	0	0	0	0
Kansas	2	1	125.7%	0	0	0	0	0	0	2	1
Minnesota	219	231	-5.3%	90	91	102	110	27	30	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	8	12	-30.2%	8	12	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,585	2,710	-4.6%	-69	-28	925	989	768	789	961	959
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	1,767	1,856	-4.8%	-68	-27	705	776	407	399	722	709
Georgia	45	42	5.9%	0	0	-4	-3	0	0	49	45
Maryland	230	220	4.8%	0	0	230	220	0	0	0	0
North Carolina	164	178	-8.1%	0	0	0	0	0	0	164	179
South Carolina	31	32	-5.1%	0	0	4	5	0	0	26	27
Virginia	360	390	-7.7%	0	0	0	0	360	390	0	0
West Virginia	-11	-9	24.3%	0	0	-11	-9	0	0	0	0
East South Central	71	43	62.8%	70	40	0	0	0	0	0	3
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	70	40	74.5%	70	40	0	0	0	0	176	362
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	3	-87.1%	0	0	0	0	0	0	0	3
West South Central	473	832	-43.1%	23	186	-34	-12	-9	-8	493	666
Arkansas	5	4	29.5%	0	0	0	0	0	0	5	4
Louisiana	176	548	-67.9%	0	187	0	0	0	0	176	362
Oklahoma	16	-7	-314.5%	24	0	0	0	-9	-7	0	0
Texas	277	287	-3.7%	-1	-1	-34	-12	0	0	311	300
Mountain	334	452	-26.1%	55	55	93	189	0	0	186	208
Arizona	-15	-9	69.4%	-3	-3	-12	-6	0	0	0	0
Colorado	22	36	-39.2%	0	0	-11	2	0	0	33	35
Idaho	53	48	11.0%	0	0	0	0	0	0	53	48
Montana	156	211	-25.8%	0	0	156	211	0	0	0	0
Nevada	-9	4	-321.2%	21	22	-30	-18	0	0	0	0
New Mexico	-11	0	NM	-1	0	-10	0	0	0	0	0
Utah	78	110	-28.7%	38	37	0	0	0	0	41	73
Wyoming	59	52	13.7%	0	0	0	0	0	0	59	52
Pacific Contiguous	-108	283	-138.0%	-24	-22	-312	-116	31	49	198	372
California	-173	207	-183.7%	-24	-22	-377	-192	31	49	198	372
Oregon	14	27	-48.4%	0	0	14	27	0	0	0	0
Washington	52	50	4.1%	0	0	52	50	0	0	0	0
Pacific Noncontiguous	128	210	-39.1%	-2	58	-1	-2	131	155	0	0
Alaska	-2	-2	-23.4%	-2	-2	0	0	0	0	0	0
Hawaii	130	213	-38.9%	0	61	-1	-2	131	155	0	0
U.S. Total	7,409	8,530	-13.1%	171	409	2,366	2,697	2,359	2,537	2,512	2,886

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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, September 2023 and 2022 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector					
	September 2023	September 2022	Percentage Change	Electric Utilities		Independent Power Producers		September 2023	September 2022	September 2023	September 2022				
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities						Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
				September 2023	September 2022	September 2023	September 2022					September 2023	September 2022	September 2023	September 2022
New England	200	256	-22.0%	12	17	186	237	2	2	NM	0				
Connecticut	NM	1	NM	0	0	NM	1	0	0	0	0				
Maine	131	168	-22.1%	0	0	131	168	0	0	0	0				
Massachusetts	16	17	-4.6%	3	4	11	11	NM	2	NM	0				
New Hampshire	20	31	-34.9%	0	0	20	31	0	0	0	0				
Rhode Island	14	14	-2.0%	0	0	13	13	0	1	0	0				
Vermont	18	26	-28.9%	8	13	10	13	0	0	0	0				
Middle Atlantic	440	454	-2.9%	12	0	428	453	NM	0	NM	0				
New Jersey	2	1	13.4%	0	0	2	1	0	0	0	0				
New York	254	232	9.3%	12	0	241	232	NM	0	NM	0				
Pennsylvania	185	220	-15.9%	0	0	185	220	0	0	0	0				
East North Central	2,241	2,394	-6.4%	294	331	1,939	2,057	NM	2	NM	5				
Illinois	1,173	1,197	-2.0%	NM	1	1,172	1,196	NM	0	0	0				
Indiana	419	467	-10.3%	0	0	419	467	0	0	0	0				
Michigan	436	491	-11.3%	232	270	204	221	0	0	0	0				
Ohio	98	138	-28.5%	NM	0	92	133	0	0	NM	4				
Wisconsin	114	101	13.1%	61	60	51	40	NM	1	0	0				
East North Central	8,525	9,810	-13.1%	3,049	3,593	5,473	6,213	NM	3	NM	1				
Iowa	2,776	3,087	-10.1%	1,983	2,314	792	773	0	0	0	0				
Kansas	1,965	2,222	-11.6%	177	177	1,786	2,043	NM	1	NM	1				
Minnesota	986	1,030	-4.3%	328	350	656	678	NM	2	0	0				
Missouri	439	473	-7.3%	160	167	279	306	0	0	0	0				
Nebraska	793	921	-14.0%	NM	7	787	915	0	0	0	0				
North Dakota	962	1,306	-26.3%	309	458	654	848	0	0	0	0				
South Dakota	604	770	-21.6%	86	120	518	650	0	0	0	0				
South Atlantic	138	216	-36.2%	3	3	134	212	0	0	0	0				
Delaware	0	0	18.4%	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	23	30	-24.3%	0	0	23	30	0	0	0	0				
North Carolina	32	35	-10.3%	0	0	32	35	0	0	0	0				
South Carolina	0	0	--	0	0	0	0	0	0	0	0				
Virginia	3	3	-5.5%	3	3	0	0	0	0	0	0				
West Virginia	80	147	-45.6%	0	0	80	147	0	0	0	0				
East South Central	NM	1	NM	0	0	NM	1	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	1	NM	0	0	NM	1	0	0	0	0				
West South Central	10,943	8,710	25.6%	185	176	10,758	8,532	NM	2	0	0				
Arkansas	0	0	--	0	0	0	0	0	0	0	0				
Louisiana	0	0	--	0	0	0	0	0	0	0	0				
Oklahoma	2,817	2,493	13.0%	171	166	2,646	2,327	0	0	0	0				
Texas	8,126	6,217	30.7%	14	10	8,111	6,205	NM	2	0	0				
Mountain	3,316	3,157	5.0%	832	850	2,484	2,307	NM	0	0	0				
Arizona	147	101	46.2%	0	0	147	101	0	0	0	0				
Colorado	1,121	1,189	-5.7%	299	314	822	875	0	0	0	0				
Idaho	142	159	-11.1%	NM	11	132	149	0	0	0	0				
Montana	301	204	47.4%	53	59	248	145	0	0	0	0				
Nevada	20	20	-2.4%	0	0	20	20	0	0	0	0				
New Mexico	982	966	1.7%	167	207	815	758	NM	0	0	0				
Utah	60	45	31.6%	0	0	60	45	0	0	0	0				
Wyoming	544	473	15.1%	304	259	240	213	0	0	0	0				
Pacific Contiguous	2,318	2,277	1.8%	457	444	1,860	1,833	0	0	0	0				
California	1,099	1,006	9.2%	66	57	1,032	948	0	0	0	0				
Oregon	675	715	-5.6%	125	122	550	593	0	0	0	0				
Washington	544	555	-2.1%	265	264	278	291	0	0	0	0				
Pacific Noncontiguous	72	56	26.9%	NM	6	67	50	0	0	0	0				
Alaska	NM	10	NM	NM	6	NM	4	0	0	0	0				
Hawaii	64	46	38.0%	0	0	64	46	0	0	0	0				
U.S. Total	28,193	27,331	3.2%	4,848	5,420	23,330	21,896	8	10	NM	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. NM = Not meaningful due to large relative standard error or excessive percentage change. Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	2,589	2,910	-11.0%	147	180	2,417	2,707	20	23	NM	0
Connecticut	7	9	-20.7%	0	0	7	9	0	0	0	0
Maine	1,778	1,947	-8.6%	0	0	1,778	1,947	0	0	0	0
Massachusetts	145	155	-6.8%	27	36	98	102	15	18	NM	0
New Hampshire	290	354	-18.2%	0	0	290	354	0	0	0	0
Rhode Island	128	146	-12.1%	0	0	124	140	4	5	0	0
Vermont	240	299	-19.5%	120	144	120	155	0	0	0	0
Middle Atlantic	5,810	5,682	2.2%	147	0	5,660	5,679	NM	2	NM	2
New Jersey	14	16	-9.4%	0	0	14	16	0	0	0	0
New York	3,449	3,155	9.3%	147	0	3,299	3,152	NM	2	NM	2
Pennsylvania	2,347	2,511	-6.5%	0	0	2,347	2,511	0	0	0	0
East North Central	30,797	33,302	-7.5%	3,938	4,348	26,766	28,854	22	23	72	76
Illinois	15,348	16,580	-7.4%	9	10	15,336	16,567	NM	3	0	0
Indiana	6,407	6,892	-7.0%	0	0	6,407	6,892	0	0	0	0
Michigan	5,855	6,304	-7.1%	3,211	3,513	2,644	2,791	0	0	0	0
Ohio	1,971	2,221	-11.3%	NM	4	1,898	2,144	2	3	67	71
Wisconsin	1,216	1,304	-6.7%	712	822	483	460	16	17	4	5
West North Central	90,645	99,845	-9.2%	33,654	37,234	56,949	62,566	33	34	NM	10
Iowa	29,772	32,716	-9.0%	21,490	24,634	8,280	8,078	2	3	0	0
Kansas	19,600	22,422	-12.6%	1,878	1,548	17,702	20,851	11	12	NM	10
Minnesota	10,490	10,698	-1.9%	3,551	3,575	6,919	7,104	20	19	0	0
Missouri	4,854	5,382	-9.8%	1,958	2,068	2,897	3,315	0	0	0	0
Nebraska	8,765	8,901	-1.5%	74	66	8,691	8,835	0	0	0	0
North Dakota	10,467	12,162	-13.9%	3,659	4,178	6,807	7,984	0	0	0	0
South Dakota	6,698	7,564	-11.5%	1,044	1,165	5,654	6,399	0	0	0	0
South Atlantic	2,266	2,240	1.2%	37	38	2,226	2,198	3	3	0	0
Delaware	3	3	-10.1%	0	0	0	0	3	3	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	336	363	-7.4%	0	0	336	363	0	0	0	0
North Carolina	398	416	-4.4%	0	0	398	416	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	37	38	-3.7%	37	38	0	0	0	0	0	0
West Virginia	1,492	1,419	5.1%	0	0	1,492	1,419	0	0	0	0
East South Central	20	11	79.3%	0	0	20	11	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	20	11	79.3%	0	0	20	11	0	0	0	0
West South Central	118,758	115,228	3.1%	1,856	1,953	116,872	113,239	30	36	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	27,764	28,304	-1.9%	1,704	1,802	26,060	26,502	0	0	0	0
Texas	90,995	86,924	4.7%	152	150	90,813	86,737	30	36	0	0
Mountain	36,675	36,827	-0.4%	9,611	10,332	27,060	26,492	NM	1	2	2
Arizona	1,360	1,222	11.4%	0	0	1,360	1,222	0	0	0	0
Colorado	11,831	12,706	-6.9%	3,180	3,419	8,649	9,286	0	0	2	2
Idaho	1,708	1,793	-4.7%	108	120	1,600	1,674	0	0	0	0
Montana	3,165	2,741	15.5%	674	759	2,491	1,982	0	0	0	0
Nevada	239	234	1.8%	0	0	239	234	0	0	0	0
New Mexico	11,482	10,544	8.9%	2,086	2,071	9,394	8,472	NM	1	0	0
Utah	559	548	1.9%	0	0	559	548	0	0	0	0
Wyoming	6,332	7,038	-10.0%	3,563	3,963	2,769	3,075	0	0	0	0
Pacific Contiguous	24,700	25,050	-1.4%	4,674	4,747	20,017	20,295	5	5	4	4
California	11,730	12,197	-3.8%	599	595	11,122	11,594	5	5	4	4
Oregon	7,201	6,555	9.9%	1,254	1,033	5,947	5,522	0	0	0	0
Washington	5,769	6,298	-8.4%	2,821	3,119	2,947	3,179	0	0	0	0
Pacific Noncontiguous	600	580	3.5%	58	61	542	518	0	0	0	0
Alaska	96	106	-8.6%	58	61	38	44	0	0	0	0
Hawaii	503	474	6.2%	0	0	503	474	0	0	0	0
U.S. Total	312,859	321,674	-2.7%	54,121	58,893	258,530	262,560	115	128	92	94

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	318	347	-8.4%	8	5	215	240	40	44	55	57
Connecticut	31	30	2.7%	0	0	31	30	0	0	0	0
Maine	109	139	-21.2%	0	0	54	79	0	3	55	57
Massachusetts	77	80	-4.3%	0	0	41	43	36	37	0	0
New Hampshire	63	70	-10.3%	0	0	59	66	3	4	0	0
Rhode Island	19	15	33.1%	0	0	19	15	0	0	0	0
Vermont	19	13	40.8%	8	5	NM	8	0	0	0	0
Middle Atlantic	315	306	2.8%	0	0	178	171	96	98	41	37
New Jersey	51	55	-6.9%	0	0	27	28	24	27	0	0
New York	132	140	-6.0%	0	0	67	72	54	56	11	12
Pennsylvania	132	111	18.7%	0	0	84	71	17	15	30	25
East North Central	311	366	-15.1%	62	77	170	196	7	9	72	85
Illinois	22	21	7.0%	7	7	15	14	0	0	0	0
Indiana	30	31	-3.7%	22	23	5	5	0	0	4	4
Michigan	160	182	-12.2%	0	0	118	128	3	3	39	51
Ohio	18	36	-49.1%	0	0	10	24	1	1	8	12
Wisconsin	81	97	-16.3%	33	47	22	26	4	5	21	19
West North Central	134	127	6.0%	21	22	40	45	16	16	57	44
Iowa	17	20	-15.7%	NM	4	8	8	1	2	6	7
Kansas	5	5	-3.3%	0	0	5	5	0	0	0	0
Minnesota	94	86	9.5%	11	10	24	29	10	12	49	35
Missouri	9	6	40.4%	NM	2	NM	3	4	1	0	0
Nebraska	7	7	9.4%	6	5	0	0	2	1	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	1,253	1,407	-10.9%	110	143	393	471	69	70	682	723
Delaware	6	6	2.8%	0	0	5	4	0	0	1	2
District of Columbia	4	4	-4.5%	0	0	0	0	4	4	0	0
Florida	277	298	-7.2%	36	68	82	94	38	31	121	105
Georgia	403	494	-18.5%	0	0	137	164	0	0	265	330
Maryland	23	25	-9.1%	0	0	23	25	0	1	0	0
North Carolina	137	154	-11.2%	0	0	57	59	0	0	80	95
South Carolina	152	155	-2.0%	4	4	23	52	0	0	126	99
Virginia	250	268	-6.7%	71	71	64	72	27	33	89	92
West Virginia	NM	1	NM	0	0	NM	1	0	0	0	0
East South Central	391	449	-12.9%	7	7	9	11	0	0	374	431
Alabama	228	254	-10.3%	0	0	4	3	0	0	224	250
Kentucky	34	41	-16.4%	7	7	NM	1	0	0	26	33
Mississippi	90	117	-23.1%	0	0	NM	1	0	0	89	116
Tennessee	39	37	5.4%	0	0	4	6	0	0	35	32
West South Central	332	399	-16.8%	47	49	24	30	-1	0	261	320
Arkansas	54	79	-32.5%	0	0	4	4	0	0	50	76
Louisiana	156	169	-7.3%	0	0	7	7	0	0	150	162
Oklahoma	7	10	-32.6%	0	0	NM	1	-1	0	7	9
Texas	115	140	-18.2%	47	49	12	18	0	0	56	73
Mountain	78	83	-6.7%	NM	2	46	47	3	4	27	31
Arizona	16	18	-7.1%	0	0	16	18	0	0	0	0
Colorado	12	13	-10.4%	0	0	12	13	0	0	0	0
Idaho	35	39	-10.2%	NM	1	6	5	2	2	25	30
Montana	3	3	2.5%	NM	1	0	0	0	0	2	2
Nevada	4	4	10.5%	0	0	4	4	0	0	0	0
New Mexico	NM	1	NM	0	0	NM	1	0	0	0	0
Utah	6	6	-1.9%	0	0	5	5	1	1	0	0
Wyoming	0	0	-	0	0	0	0	0	0	0	0
Pacific Contiguous	575	671	-14.3%	31	34	320	385	57	68	167	184
California	401	481	-16.5%	4	1	287	342	55	65	55	73
Oregon	70	79	-11.0%	5	5	25	36	2	3	39	35
Washington	103	111	-7.3%	22	27	8	7	NM	1	73	76
Pacific Noncontiguous	26	24	7.7%	1	2	10	5	16	17	0	0
Alaska	4	3	8.0%	0	0	0	0	4	3	0	0
Hawaii	23	21	7.6%	1	2	10	5	12	14	0	0
U.S. Total	3,733	4,179	-10.7%	288	341	1,405	1,600	303	326	1,737	1,913

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

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

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

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

by State, by Sector, Year-to-Date through September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	3,277	3,631	-9.8%	191	208	2,225	2,452	361	392	500	578
Connecticut	325	422	-23.0%	0	0	325	422	0	0	0	0
Maine	1,193	1,359	-12.2%	0	0	686	756	6	25	500	578
Massachusetts	695	703	-1.1%	0	0	369	371	326	332	0	0
New Hampshire	595	653	-8.9%	0	0	568	619	28	35	0	0
Rhode Island	178	165	7.8%	0	0	178	165	0	0	0	0
Vermont	290	328	-11.6%	191	208	98	118	1	1	0	0
Middle Atlantic	2,931	3,106	-5.7%	0	0	1,702	1,780	843	896	385	430
New Jersey	497	505	-1.6%	0	0	252	251	245	254	0	0
New York	1,227	1,401	-12.5%	0	0	675	787	450	487	102	127
Pennsylvania	1,207	1,200	0.6%	0	0	775	742	149	155	283	303
East North Central	3,091	3,473	-11.0%	637	662	1,642	1,852	72	87	739	873
Illinois	213	225	-5.5%	73	78	140	147	0	0	0	0
Indiana	279	300	-7.0%	202	211	42	43	0	10	35	36
Michigan	1,553	1,677	-7.4%	0	0	1,148	1,189	31	32	374	456
Ohio	233	417	-44.1%	0	0	103	256	6	5	124	156
Wisconsin	814	855	-4.9%	362	374	209	216	35	40	207	225
West North Central	1,243	1,303	-4.6%	198	198	381	379	110	179	554	548
Iowa	155	171	-9.2%	25	27	72	75	6	14	52	55
Kansas	46	47	-1.2%	0	0	46	47	0	0	0	0
Minnesota	872	907	-3.9%	99	95	233	226	58	118	481	468
Missouri	84	87	-4.0%	19	21	30	31	32	33	2	2
Nebraska	68	69	-2.3%	54	56	0	0	14	14	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	19	22	-13.2%	0	0	0	0	0	0	19	22
South Atlantic	12,158	13,376	-9.1%	1,073	1,465	3,923	4,179	689	709	6,472	7,023
Delaware	57	59	-3.4%	0	0	43	44	0	0	14	15
District of Columbia	43	43	0.3%	0	0	0	0	43	43	0	0
Florida	2,676	3,023	-11.5%	335	525	825	897	343	335	1,174	1,265
Georgia	3,905	4,308	-9.4%	0	0	1,347	1,386	0	0	2,558	2,922
Maryland	239	234	2.0%	0	0	236	229	3	5	0	0
North Carolina	1,286	1,347	-4.5%	0	0	522	493	0	0	764	854
South Carolina	1,472	1,532	-3.9%	40	42	338	478	0	0	1,095	1,012
Virginia	2,470	2,820	-12.4%	698	897	604	644	301	325	867	954
West Virginia	7	8	-4.7%	0	0	7	8	0	0	0	0
East South Central	3,924	4,102	-4.3%	69	69	85	103	0	0	3,770	3,929
Alabama	2,325	2,420	-3.9%	0	0	33	32	0	0	2,292	2,387
Kentucky	315	342	-8.0%	69	69	8	10	0	0	238	263
Mississippi	957	1,014	-5.6%	0	0	7	7	0	0	950	1,007
Tennessee	327	326	0.2%	0	0	37	54	0	0	290	272
West South Central	3,137	3,620	-13.3%	236	348	227	280	-7	-5	2,681	2,997
Arkansas	555	644	-13.8%	0	0	35	34	0	1	520	609
Louisiana	1,473	1,603	-8.1%	0	0	63	59	0	0	1,410	1,545
Oklahoma	198	233	-15.1%	0	0	12	12	-7	-6	193	227
Texas	911	1,139	-20.0%	236	348	118	175	0	0	557	616
Mountain	714	766	-6.9%	17	17	407	440	32	30	257	280
Arizona	148	157	-5.5%	0	0	148	157	0	0	0	0
Colorado	100	124	-19.3%	0	0	100	124	0	0	0	0
Idaho	322	361	-10.6%	10	11	48	62	22	23	242	266
Montana	22	21	5.4%	6	7	0	0	0	0	15	14
Nevada	42	37	13.5%	0	0	42	37	0	0	0	0
New Mexico	21	12	70.7%	0	0	21	12	0	0	0	0
Utah	58	55	6.2%	0	0	48	48	10	7	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,416	5,704	-5.1%	273	256	2,990	3,253	542	571	1,611	1,624
California	3,749	4,024	-6.8%	32	5	2,673	2,900	513	540	530	579
Oregon	705	733	-3.8%	43	42	240	288	20	23	402	379
Washington	962	948	1.5%	198	209	77	65	8	8	679	666
Pacific Noncontiguous	225	236	-5.0%	10	13	79	67	136	157	0	0
Alaska	29	30	-6.2%	0	0	0	0	29	30	0	0
Hawaii	196	206	-4.8%	10	13	79	67	107	127	0	0
U.S. Total	36,114	39,318	-8.1%	2,704	3,237	13,661	14,784	2,779	3,015	16,970	18,281

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
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	398	366	8.6%	24	21	374	345	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	7	7	-3.4%	0	0	7	7	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	346	319	8.6%	0	0	346	319	0	0	0	0
New Mexico	2	3	-32.6%	0	0	2	3	0	0	0	0
Utah	43	37	14.9%	24	21	19	16	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	925	946	-2.3%	42	65	882	881	0	0	0	0
California	907	932	-2.6%	42	65	865	866	0	0	0	0
Oregon	17	15	17.8%	0	0	17	15	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	29	17	67.7%	0	0	29	17	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	29	17	67.7%	0	0	29	17	0	0	0	0
U.S. Total	1,351	1,329	1.6%	66	86	1,285	1,243	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 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 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	3,602	3,264	10.4%	210	190	3,391	3,073	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	63	66	-5.3%	0	0	63	66	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	3,136	2,828	10.9%	0	0	3,136	2,828	0	0	0	0
New Mexico	26	33	-22.1%	0	0	26	33	0	0	0	0
Utah	377	336	12.1%	210	190	167	146	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	8,372	8,491	-1.4%	437	592	7,935	7,899	0	0	0	0
California	8,221	8,358	-1.6%	437	592	7,784	7,766	0	0	0	0
Oregon	152	134	13.5%	0	0	152	134	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	251	155	62.2%	0	0	251	155	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	251	155	62.2%	0	0	251	155	0	0	0	0
U.S. Total	12,225	11,910	2.6%	647	782	11,578	11,127	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 2023 are preliminary. Values for 2022 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.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, September 2023 and 2022 (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	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
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	2	-100.0%	0	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	0	2	-100.0%	0	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	98	99	-1.6%	0	0	98	99	0	0	0	0
Arizona	76	68	10.4%	0	0	76	68	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	22	31	-29.1%	0	0	22	31	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	195	184	6.2%	0	0	195	184	0	0	0	0
California	195	184	6.2%	0	0	195	184	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	293	285	2.9%	0	2	293	283	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 2023 are preliminary. Values for 2022 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 September 2023 and 2022 (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	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 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	28	-100.0%	0	28	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	28	-100.0%	0	28	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	764	720	6.1%	0	0	764	720	0	0	0	0
Arizona	637	582	9.6%	0	0	637	582	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	124	138	-10.2%	0	0	124	138	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	1,526	1,715	-11.0%	0	0	1,526	1,715	0	0	0	0
California	1,526	1,715	-11.0%	0	0	1,526	1,715	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	2,290	2,463	-7.0%	0	28	2,290	2,435	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 2023 are preliminary. Values for 2022 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, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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	500,367	372,694	125,920	87	1,666
2022	471,576	349,320	120,514	87	1,655
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	32,788	23,460	9,171	8	149
December	34,469	24,894	9,431	7	138
Year 2022					
January	48,671	35,515	13,004	8	145
February	39,951	28,588	11,219	7	137
March	34,396	24,194	10,045	5	151
April	30,904	22,073	8,704	4	124
May	35,210	26,438	8,621	3	148
June	41,748	31,926	9,666	9	147
July	49,433	37,902	11,380	8	143
August	48,356	36,307	11,897	9	142
Sept	37,302	28,179	8,983	9	130
October	31,458	23,343	7,980	8	126
November	32,398	23,313	8,953	8	122
December	41,750	31,540	10,062	9	139
Year 2023					
January	35,482	27,349	7,993	6	134
February	26,888	20,036	6,727	6	118
March	28,609	21,189	7,299	5	117
April	22,864	16,126	6,617	6	115
May	25,573	18,509	6,937	6	121
June	33,456	26,074	7,255	3	124
July	44,377	34,488	9,749	4	136
August	43,863	33,989	9,743	4	127
Sept	34,237	26,193	7,917	5	122
Year to Date					
2021	397,537	298,660	97,572	63	1,241
2022	365,970	271,123	93,518	61	1,267
2023	295,350	223,952	70,238	46	1,114
Rolling 12 Months Ending in September					
2022	468,801	345,158	121,866	85	1,692
2023	400,955	302,149	97,233	72	1,502

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	16,586	2,979	1,336	572	11,700
2017	14,667	2,802	1,158	515	10,192
2018	13,813	2,268	1,356	490	9,700
2019	12,397	2,062	1,161	443	8,731
2020	10,402	1,635	715	401	7,651
2021	11,301	2,153	667	447	8,034
2022	11,356	2,269	731	448	7,908
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	1,071	221	66	48	736
February	930	189	67	49	625
March	985	181	78	32	694
April	898	163	72	22	641
May	904	149	56	24	676
June	892	173	52	33	634
July	954	219	55	36	643
August	963	203	62	37	661
Sept	905	190	57	38	621
October	933	174	56	38	664
November	904	181	56	43	624
December	1,018	227	55	48	688
Year 2023					
January	949	155	66	36	692
February	811	124	47	34	606
March	850	138	63	31	617
April	750	86	44	30	590
May	786	117	43	26	600
June	763	115	50	23	576
July	802	166	37	23	576
August	754	154	39	24	537
Sept	766	145	37	25	558
Year to Date					
2021	8,469	1,625	520	326	5,999
2022	8,501	1,687	565	318	5,931
2023	7,232	1,202	427	251	5,352
Rolling 12 Months Ending in September					
2022	11,333	2,215	711	439	7,967
2023	10,086	1,784	594	381	7,328

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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	511,669	374,848	126,587		534	9,700
2022	482,931	351,589	121,245		535	9,563
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	33,764	23,627	9,221		50	865
December	35,436	25,103	9,490		49	795
Year 2022						
January	49,742	35,736	13,069		56	881
February	40,880	28,777	11,286		55	762
March	35,381	24,375	10,123		37	845
April	31,802	22,236	8,776		25	765
May	36,114	26,587	8,677		27	824
June	42,640	32,099	9,718		42	781
July	50,387	38,121	11,435		44	787
August	49,318	36,510	11,959		46	803
Sept	38,207	28,369	9,040		47	751
October	32,391	23,518	8,036		46	791
November	33,301	23,494	9,009		52	746
December	42,768	31,766	10,117		57	828
Year 2023						
January	36,432	27,504	8,059		42	826
February	27,698	20,160	6,774		40	724
March	29,460	21,327	7,362		37	734
April	23,614	16,212	6,661		36	705
May	26,359	18,626	6,980		32	721
June	34,219	26,189	7,305		25	700
July	45,179	34,654	9,787		27	712
August	44,617	34,143	9,782		28	664
Sept	35,003	26,338	7,955		30	680
Year to Date						
2021	406,006	300,285	98,092		389	7,240
2022	374,472	272,810	94,083		380	7,199
2023	302,582	225,154	70,665		297	6,465
Rolling 12 Months Ending in September						
2022	480,134	347,373	122,577		525	9,659
2023	411,041	303,933	97,827		452	8,830

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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	21,633	16,850	4,102		250	432
2022	28,760	18,375	9,474		254	657
Year 2021						
January	1,728	1,376	295		22	35
February	2,988	2,295	606		20	67
March	1,489	1,179	250		23	38
April	1,500	1,190	255		24	32
May	1,525	1,204	267		20	34
June	1,725	1,290	385		20	30
July	1,632	1,243	336		23	30
August	2,193	1,752	385		20	36
Sept	1,740	1,396	298		16	29
October	1,654	1,317	280		23	34
November	1,647	1,260	338		17	32
December	1,810	1,349	406		21	34
Year 2022						
January	5,217	2,325	2,794		44	54
February	2,067	1,239	768		16	43
March	1,732	1,304	365		14	48
April	1,408	1,098	250		17	43
May	1,588	1,275	252		20	42
June	1,704	1,286	351		20	46
July	2,020	1,375	576		21	48
August	1,896	1,301	537		19	39
Sept	1,738	1,341	335		12	49
October	1,814	1,370	387		14	43
November	1,700	1,339	304		15	42
December	5,876	3,121	2,553		42	160
Year 2023						
January	1,788	1,405	303		21	59
February	2,003	1,292	651		17	43
March	1,713	1,280	365		16	52
April	1,578	1,214	307		NM	46
May	1,693	1,281	354		16	42
June	1,610	1,291	258		12	50
July	1,687	1,234	393		14	46
August	1,754	1,387	307		15	45
Sept	1,741	1,328	361		13	39
Year to Date						
2021	16,522	12,924	3,078		189	331
2022	19,369	12,544	6,229		184	412
2023	15,567	11,713	3,299		134	421
Rolling 12 Months Ending in September						
2022	24,480	16,470	7,253		245	513
2023	24,958	17,543	6,544		NM	667

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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		330	1,384
2022	4,181	106	403		495	3,177
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	425	28	68		114	214
February	239	14	18		30	177
March	336	6	35		33	263
April	335	4	27		26	277
May	310	5	27		34	244
June	345	5	28		18	294
July	360	5	25		38	292
August	243	3	27		30	183
Sept	302	4	28		10	259
October	317	5	32		14	266
November	310	4	33		16	257
December	659	21	55		131	451
Year 2023						
January	388	6	35		57	290
February	288	8	29		26	225
March	350	5	26		27	292
April	278	5	29		NM	234
May	225	8	26		12	178
June	218	6	26		18	169
July	210	5	25		18	162
August	222	5	23		18	176
Sept	222	4	25		21	172
Year to Date						
2021	1,565	61	208		255	1,040
2022	2,895	75	284		333	2,203
2023	2,400	52	244		206	1,898
Rolling 12 Months Ending in September						
2022	3,402	93	353		408	2,547
2023	3,686	83	363		NM	2,872

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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	23,705	16,929	4,379		580	1,816
2022	32,940	18,480	9,877		749	3,835
Year 2021						
January	1,960	1,380	320		56	203
February	3,305	2,320	665		71	249
March	1,679	1,183	272		56	167
April	1,651	1,195	275		52	129
May	1,662	1,207	283		48	124
June	1,845	1,295	398		39	114
July	1,767	1,246	355		47	119
August	2,343	1,757	404		41	142
Sept	1,875	1,402	314		34	125
October	1,828	1,323	299		48	158
November	1,808	1,266	365		37	140
December	1,983	1,355	430		51	147
Year 2022						
January	5,642	2,353	2,863		158	268
February	2,306	1,253	786		47	220
March	2,068	1,310	400		47	311
April	1,742	1,102	277		43	320
May	1,898	1,280	279		54	285
June	2,049	1,291	379		38	341
July	2,380	1,380	601		59	340
August	2,139	1,305	564		48	222
Sept	2,040	1,345	364		23	308
October	2,131	1,375	419		28	310
November	2,011	1,344	337		31	299
December	6,534	3,142	2,608		173	611
Year 2023						
January	2,176	1,411	337		78	350
February	2,291	1,300	680		42	268
March	2,063	1,286	390		43	344
April	1,856	1,219	336		NM	280
May	1,917	1,289	381		28	220
June	1,828	1,297	283		30	218
July	1,897	1,239	418		32	208
August	1,976	1,392	330		32	221
Sept	1,963	1,331	386		34	211
Year to Date						
2021	18,087	12,985	3,286		444	1,371
2022	22,264	12,619	6,513		517	2,615
2023	17,967	11,765	3,542		340	2,319
Rolling 12 Months Ending in September						
2022	27,882	16,563	7,606		653	3,060
2023	28,644	17,626	6,907		NM	3,539

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
2013	4,852	3,409	779		1	662
2014	4,412	3,440	599		2	371
2015	4,044	3,120	669		2	253
2016	4,253	3,427	591		2	233
2017	3,490	2,731	542		3	214
2018	3,623	2,740	704		2	177
2019	2,724	2,067	478		1	177
2020	3,077	2,260	658		1	158
2021	3,070	2,323	618		1	127
2022	2,985	2,271	578		3	132
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	240	166	63		0	11
February	248	180	55		0	13
March	216	143	62		0	10
April	225	156	59		0	10
May	248	212	22		0	12
June	281	224	46		0	10
July	219	177	31		0	11
August	241	178	52		0	11
Sept	280	210	60		0	10
October	263	192	60		0	11
November	227	178	36		0	13
December	296	254	31		0	10
Year 2023						
January	163	116	37		0	10
February	135	107	20		0	8
March	115	73	NM		0	12
April	107	74	NM		0	7
May	117	76	34		0	8
June	147	107	33		0	7
July	252	196	44		0	11
August	254	197	47		0	10
Sept	226	175	42		0	9
Year to Date						
2021	2,236	1,687	454		0	95
2022	2,199	1,647	451		2	98
2023	1,516	1,122	312		0	82
Rolling 12 Months Ending in September						
2022	3,032	2,283	616		3	129
2023	2,303	1,746	NM		1	116

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
2013	1,486	0	96		11	1,379
2014	1,283	3	90		16	1,174
2015	1,144	9	109		16	1,010
2016	1,099	6	113		9	971
2017	977	11	115		15	836
2018	929	12	93		10	814
2019	839	17	93		6	724
2020	780	16	124		3	637
2021	760	21	113		6	621
2022	718	23	92		13	589
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	8		2	44
February	67	8	11		2	46
March	60	1	9		2	48
April	56	0	8		1	47
May	68	1	8		2	57
June	52	1	6		2	44
July	51	1	1		1	47
August	69	1	8		0	60
Sept	49	1	8		0	40
October	62	1	8		0	53
November	71	6	8		1	56
December	58	0	9		1	48
Year 2023						
January	43	1	8		1	33
February	48	1	23		0	24
March	58	2	NM		0	46
April	50	2	NM		0	40
May	56	0	8		0	48
June	51	0	6		0	44
July	54	1	8		0	46
August	61	1	9		0	51
Sept	53	0	7		0	46
Year to Date						
2021	580	13	92		1	474
2022	527	16	67		11	433
2023	473	8	86		2	377
Rolling 12 Months Ending in September						
2022	708	24	88		16	580
2023	664	15	NM		4	533

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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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, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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	1,283
2016	5,352	3,433	705		10	1,204
2017	4,467	2,742	657		17	1,050
2018	4,552	2,752	797		12	991
2019	3,563	2,083	571		7	900
2020	3,856	2,276	782		4	795
2021	3,830	2,344	731		7	748
2022	3,702	2,294	671		16	721
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	295	168	71		2	54
February	315	188	66		2	59
March	275	144	71		2	58
April	282	156	67		2	57
May	315	214	30		2	69
June	333	225	53		2	53
July	270	178	33		1	58
August	310	179	59		0	72
Sept	330	211	68		0	51
October	325	193	68		0	64
November	298	184	44		1	69
December	355	255	40		2	58
Year 2023						
January	206	116	46		2	42
February	184	108	43		0	32
March	173	75	NM		0	59
April	157	77	NM		0	47
May	173	76	42		0	55
June	198	107	39		0	51
July	306	197	52		0	57
August	315	197	56		0	61
Sept	278	175	49		0	54
Year to Date						
2021	2,816	1,700	545		1	569
2022	2,726	1,663	518		14	531
2023	1,990	1,130	399		2	459
Rolling 12 Months Ending in September						
2022	3,740	2,307	704		20	709
2023	2,966	1,761	NM		5	649

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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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, 2013-September 2023 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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	11,502,569	5,876,442	4,995,247		45,537	585,343
2022	12,384,098	6,376,042	5,364,051		48,658	595,347
Year 2021						
January	888,929	451,377	380,506		3,962	53,084
February	801,381	404,132	351,999		3,474	41,775
March	761,278	396,874	316,236		3,483	44,685
April	779,081	408,210	324,097		2,984	43,790
May	834,675	433,323	352,461		3,102	45,790
June	1,111,149	575,818	481,482		3,988	49,861
July	1,266,884	654,378	553,358		4,491	54,657
August	1,288,895	657,227	573,063		4,714	53,891
Sept	1,011,461	508,790	451,326		4,074	47,271
October	962,719	474,461	436,070		3,768	48,420
November	891,827	451,592	386,597		3,669	49,969
December	904,290	460,260	388,053		3,827	52,149
Year 2022						
January	972,571	499,668	416,488		3,980	52,436
February	823,713	414,497	360,403		3,525	45,288
March	800,152	407,227	339,907		3,791	49,227
April	767,572	391,895	325,930		3,536	46,211
May	947,261	488,790	406,341		3,767	48,363
June	1,168,712	623,024	491,993		4,050	49,645
July	1,430,805	752,312	619,375		4,873	54,245
August	1,407,824	722,888	625,436		5,064	54,436
Sept	1,149,683	579,459	517,292		4,325	48,606
October	971,750	491,554	428,251		3,632	48,313
November	928,163	480,119	394,845		3,849	49,349
December	1,015,892	524,610	437,788		4,265	49,228
Year 2023						
January	989,086	502,994	430,436		4,138	51,519
February	892,083	451,574	389,744		3,797	46,969
March	953,695	488,030	411,527		4,092	50,047
April	887,919	462,425	379,324		3,733	42,437
May	1,021,012	544,909	425,122		3,858	47,123
June	1,198,252	621,683	521,682		4,410	50,477
July	1,496,009	772,377	665,843		4,939	52,850
August	1,487,947	781,929	647,395		4,946	53,677
Sept	1,212,591	614,297	542,387		4,616	51,292
Year to Date						
2021	8,743,733	4,490,129	3,784,527		34,273	434,805
2022	9,468,293	4,879,758	4,103,166		36,912	448,456
2023	10,138,595	5,240,218	4,413,458		38,528	446,391
Rolling 12 Months Ending in September						
2022	12,227,128	6,266,072	5,313,886		48,177	598,994
2023	13,054,400	6,736,501	5,674,343		50,274	593,282

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.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2013-September 2023 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
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	1,221,841	49,103	307,795	71,094	793,849
2022	1,206,240	46,329	305,125	74,683	780,102
Year 2021					
January	111,408	4,510	27,632	6,921	72,344
February	94,857	4,137	24,277	6,194	60,248
March	99,179	3,987	24,883	5,969	64,340
April	97,168	3,686	25,287	4,966	63,229
May	96,969	3,481	24,554	4,874	64,060
June	101,877	4,490	25,297	5,711	66,378
July	106,968	4,447	26,261	6,334	69,926
August	106,913	4,617	27,423	6,751	68,122
Sept	97,651	3,921	24,694	5,632	63,403
October	99,331	3,156	25,372	5,701	65,101
November	102,477	4,273	25,879	5,799	66,526
December	107,044	4,397	26,235	6,240	70,171
Year 2022					
January	111,979	4,635	28,424	7,331	71,588
February	98,435	3,929	25,170	6,465	62,872
March	102,253	3,852	25,861	6,384	66,155
April	92,922	2,748	22,502	5,734	61,937
May	95,758	3,356	24,200	5,623	62,579
June	97,703	3,887	25,622	5,855	62,339
July	106,539	4,604	28,679	6,816	66,439
August	106,095	4,242	27,578	6,894	67,380
Sept	96,584	3,583	24,804	5,816	62,381
October	95,266	3,073	23,556	5,412	63,225
November	98,143	4,017	23,125	5,694	65,307
December	104,563	4,401	25,603	6,659	67,900
Year 2023					
January	108,598	4,443	26,082	6,660	71,414
February	97,965	3,904	25,129	6,074	62,858
March	105,974	3,949	26,484	6,495	69,046
April	94,091	3,411	23,767	5,544	61,369
May	94,499	3,926	22,763	5,414	62,397
June	98,063	4,469	24,842	5,666	63,087
July	103,681	5,320	27,777	5,995	64,589
August	103,357	5,405	27,766	6,031	64,156
Sept	99,121	4,377	25,533	5,773	63,438
Year to Date					
2021	912,989	37,276	230,309	53,353	592,051
2022	908,267	34,838	232,842	56,918	583,670
2023	905,351	39,204	230,143	53,651	582,353
Rolling 12 Months Ending in September					
2022	1,217,119	46,664	310,328	74,658	785,468
2023	1,203,324	50,695	302,427	71,416	778,786

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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2013-September 2023 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
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	12,724,410	5,925,545	5,303,041		116,631	1,379,193
2022	13,590,337	6,422,370	5,669,176		123,342	1,375,449
Year 2021						
January	1,000,337	455,887	408,138		10,883	125,428
February	896,238	408,270	376,276		9,669	102,023
March	860,458	400,861	341,119		9,452	109,025
April	876,249	411,897	349,384		7,950	107,018
May	931,644	436,804	377,014		7,975	109,851
June	1,213,026	580,307	506,779		9,700	116,240
July	1,373,852	658,825	579,619		10,825	124,583
August	1,395,808	661,843	600,486		11,465	122,013
Sept	1,109,112	512,711	476,021		9,707	110,674
October	1,062,050	477,617	461,442		9,470	113,522
November	994,304	455,865	412,476		9,468	116,495
December	1,011,334	464,658	414,288		10,068	122,320
Year 2022						
January	1,084,549	504,303	444,912		11,311	124,023
February	922,149	418,426	385,573		9,989	108,160
March	902,405	411,079	365,768		10,175	115,382
April	860,494	394,643	348,432		9,270	108,148
May	1,043,019	492,145	430,541		9,390	110,942
June	1,266,415	626,911	517,616		9,905	111,984
July	1,537,344	756,916	648,054		11,689	120,685
August	1,513,919	727,130	653,015		11,958	121,816
Sept	1,246,267	583,042	542,096		10,141	110,987
October	1,067,017	494,626	451,807		9,044	111,539
November	1,026,306	484,137	417,970		9,543	114,655
December	1,120,456	529,011	463,391		10,924	117,129
Year 2023						
January	1,097,684	507,437	456,517		10,797	122,933
February	990,049	455,479	414,873		9,871	109,827
March	1,059,669	491,979	438,011		10,586	119,093
April	982,010	465,836	403,091		9,277	103,806
May	1,115,512	548,835	447,885		9,272	109,519
June	1,296,316	626,152	546,524		10,076	113,564
July	1,599,690	777,697	693,620		10,934	117,439
August	1,591,304	787,334	675,161		10,977	117,833
Sept	1,311,712	618,673	567,920		10,389	114,730
Year to Date						
2021	9,656,723	4,527,405	4,014,835		87,626	1,026,856
2022	10,376,560	4,914,596	4,336,007		93,830	1,032,126
2023	11,043,946	5,279,422	4,643,601		92,179	1,028,744
Rolling 12 Months Ending in September						
2022	13,444,247	6,312,736	5,624,213		122,835	1,384,463
2023	14,257,724	6,787,196	5,976,770		121,690	1,372,067

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector			Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers			
Annual Totals						
2013	271,967	27,259	211,942		28,143	4,623
2014	285,982	25,819	228,447		27,038	4,678
2015	282,530	25,257	227,381		25,250	4,642
2016	273,557	24,280	224,993		20,445	3,839
2017	278,112	25,074	229,050		20,121	3,866
2018	270,235	23,580	223,513		19,790	3,352
2019	257,494	22,726	214,819		16,874	3,075
2020	252,501	23,571	208,196		18,136	2,597
2021	231,876	22,831	190,031		16,472	2,542
2022	211,866	18,486	176,160		14,898	2,323
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	18,515	1,725	15,257		1,343	190
February	17,347	1,602	14,349		1,216	180
March	19,127	1,751	15,882		1,301	192
April	17,226	1,547	14,618		900	161
May	17,953	1,594	14,955		1,209	195
June	17,609	1,531	14,651		1,225	202
July	17,975	1,543	14,919		1,314	198
August	17,540	1,487	14,533		1,315	207
Sept	17,102	1,461	14,174		1,275	192
October	17,877	1,480	14,857		1,337	202
November	16,933	1,419	14,149		1,177	188
December	16,663	1,347	13,815		1,285	216
Year 2023						
January	17,449	1,676	14,219		1,349	205
February	15,457	1,488	12,565		1,191	213
March	16,708	1,637	13,607		1,209	255
April	15,433	1,526	12,564		1,134	209
May	16,554	1,582	13,754		1,034	184
June	16,271	1,566	13,407		1,081	218
July	16,504	1,511	13,618		1,185	190
August	16,270	1,463	13,449		1,185	173
Sept	17,126	1,724	14,139		1,108	155
Year to Date						
2021	176,112	17,372	144,317		12,400	2,023
2022	160,394	14,240	133,338		11,099	1,716
2023	147,773	14,173	121,322		10,477	1,801
Rolling 12 Months Ending in September						
2022	216,157	19,699	179,052		15,170	2,236
2023	199,246	18,419	164,144		14,277	2,407

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,163	3	2,339	1,034	788
2017	3,940	2	1,948	1,099	891
2018	3,621	0	1,867	911	843
2019	3,570	5	1,933	820	812
2020	4,011	3	2,187	820	1,000
2021	4,030	6	2,155	741	1,129
2022	4,280	15	1,996	817	1,451
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	401	1	197	81	121
February	374	1	186	69	118
March	436	1	218	78	138
April	330	1	157	70	102
May	293	1	116	51	125
June	344	1	163	65	115
July	362	1	170	66	125
August	362	1	164	74	122
Sept	355	1	160	76	117
October	355	1	163	69	122
November	315	1	130	64	120
December	354	1	173	55	124
Year 2023					
January	459	1	238	64	157
February	393	1	199	52	141
March	401	1	203	49	148
April	398	1	191	65	141
May	283	1	126	40	117
June	352	1	170	53	128
July	400	1	198	65	135
August	395	1	196	70	128
Sept	361	1	186	61	113
Year to Date					
2021	3,036	4	1,601	546	885
2022	3,256	12	1,530	629	1,085
2023	3,442	9	1,707	519	1,207
Rolling 12 Months Ending in September					
2022	4,250	13	2,085	824	1,329
2023	4,465	12	2,172	707	1,574

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

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

Values for 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	277,720	24,283	227,332	21,479	4,626
2017	282,051	25,076	230,998	21,220	4,757
2018	273,856	23,580	225,380	20,701	4,196
2019	261,064	22,731	216,753	17,694	3,887
2020	256,512	23,575	210,383	18,956	3,598
2021	235,906	22,836	192,186	17,212	3,671
2022	216,146	18,501	178,155	15,715	3,774
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	18,916	1,726	15,454	1,424	311
February	17,721	1,603	14,535	1,285	298
March	19,562	1,753	16,100	1,379	330
April	17,556	1,548	14,775	971	263
May	18,246	1,595	15,070	1,260	321
June	17,953	1,532	14,813	1,290	318
July	18,337	1,545	15,089	1,380	323
August	17,902	1,488	14,696	1,389	329
Sept	17,456	1,462	14,334	1,350	309
October	18,232	1,482	15,020	1,406	324
November	17,247	1,420	14,279	1,241	308
December	17,017	1,348	13,988	1,340	340
Year 2023					
January	17,908	1,677	14,457	1,413	362
February	15,850	1,489	12,764	1,243	353
March	17,109	1,638	13,811	1,258	403
April	15,831	1,527	12,755	1,200	350
May	16,837	1,583	13,880	1,073	300
June	16,623	1,567	13,577	1,135	345
July	16,904	1,512	13,816	1,251	325
August	16,665	1,464	13,645	1,255	301
Sept	17,487	1,725	14,325	1,169	268
Year to Date					
2021	179,148	17,377	145,918	12,946	2,908
2022	163,650	14,252	134,868	11,728	2,801
2023	151,215	14,182	123,029	10,996	3,008
Rolling 12 Months Ending in September					
2022	220,408	19,712	181,137	15,995	3,565
2023	203,711	18,431	166,316	14,984	3,980

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,994	464	13,953	2,566	11
2017	16,348	422	13,381	2,537	8
2018	16,783	467	13,859	2,448	9
2019	15,559	297	12,941	2,310	10
2020	15,516	280	12,975	2,251	10
2021	15,223	252	12,442	2,521	7
2022	14,589	274	7,346	6,969	0
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	1,214	22	645	547	0
February	1,117	20	567	530	0
March	1,215	17	638	560	0
April	1,207	23	592	591	0
May	1,225	28	607	589	0
June	1,248	25	622	601	0
July	1,272	25	634	612	0
August	1,246	28	623	595	0
Sept	1,199	18	604	577	0
October	1,211	24	592	595	0
November	1,212	23	593	595	0
December	1,224	21	626	577	0
Year 2023					
January	1,202	24	616	561	0
February	1,046	15	539	492	0
March	1,110	21	575	513	0
April	1,063	21	533	509	0
May	1,167	21	591	554	0
June	1,177	26	582	569	0
July	1,245	24	620	601	0
August	1,231	28	614	588	0
Sept	1,137	24	572	540	0
Year to Date					
2021	11,463	178	9,386	1,894	6
2022	10,942	206	5,534	5,203	0
2023	10,377	206	5,243	4,928	0
Rolling 12 Months Ending in September					
2022	14,702	280	8,590	5,829	2
2023	14,024	274	7,055	6,695	0

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 2022 and prior years are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	2,232	0	885	1,134	213
2017	2,124	0	814	1,102	208
2018	2,050	0	752	1,109	189
2019	1,667	0	743	737	187
2020	1,650	0	757	705	188
2021	1,712	0	873	666	173
2022	1,647	0	401	1,246	0
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	148	0	38	110	0
February	130	0	31	99	0
March	129	0	30	100	0
April	125	0	29	96	0
May	143	0	34	109	0
June	141	0	32	108	0
July	148	0	37	111	0
August	151	0	34	117	0
Sept	137	0	32	104	0
October	127	0	32	95	0
November	139	0	34	106	0
December	129	0	38	91	0
Year 2023					
January	125	0	38	87	0
February	121	0	33	89	0
March	128	0	34	94	0
April	121	0	32	89	0
May	131	0	33	97	0
June	117	0	33	84	0
July	137	0	41	95	0
August	141	0	40	101	0
Sept	130	0	40	90	0
Year to Date					
2021	1,281	0	638	511	132
2022	1,251	0	298	954	0
2023	1,151	0	324	827	0
Rolling 12 Months Ending in September					
2022	1,682	0	533	1,109	41
2023	1,546	0	427	1,119	0

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 2022 and prior years are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and

Useful Thermal Output, by Sector, 2013-September 2023 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	19,226	464	14,838	3,700	224
2017	18,473	422	14,195	3,639	216
2018	18,833	467	14,611	3,557	197
2019	17,225	297	13,684	3,047	197
2020	17,166	280	13,732	2,956	198
2021	16,934	252	13,315	3,187	180
2022	16,236	274	7,747	8,215	0
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	1,362	22	683	657	0
February	1,248	20	598	629	0
March	1,344	17	668	660	0
April	1,332	23	621	687	0
May	1,368	28	642	697	0
June	1,389	25	655	709	0
July	1,420	25	671	723	0
August	1,397	28	657	712	0
Sept	1,336	18	636	682	0
October	1,338	24	624	690	0
November	1,351	23	627	701	0
December	1,353	21	664	668	0
Year 2023					
January	1,327	24	654	649	0
February	1,167	15	571	581	0
March	1,238	21	609	607	0
April	1,183	21	564	598	0
May	1,297	21	625	652	0
June	1,294	26	615	653	0
July	1,382	24	661	696	0
August	1,372	28	654	690	0
Sept	1,267	24	612	630	0
Year to Date					
2021	12,744	178	10,023	2,406	137
2022	12,194	206	5,831	6,156	0
2023	11,528	206	5,567	5,755	0
Rolling 12 Months Ending in September					
2022	16,384	280	9,123	6,938	43
2023	15,570	274	7,482	7,814	0

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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Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2013-September 2023 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	359,983	41,036	149,516	473	168,959
2017	363,646	42,806	151,877	460	168,503
2018	361,703	45,856	143,288	520	172,039
2019	338,317	42,240	128,980	583	166,514
2020	318,381	31,606	125,695	608	160,472
2021	328,253	41,868	129,554	998	155,833
2022	323,764	46,357	125,125	1,140	151,142
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	28,590	4,116	11,148	102	13,225
February	27,354	4,072	10,966	94	12,223
March	26,834	3,220	10,911	69	12,633
April	24,378	2,638	9,297	73	12,370
May	26,037	3,542	9,711	110	12,675
June	27,667	4,060	10,713	129	12,766
July	30,189	4,960	11,506	119	13,604
August	29,708	5,264	11,129	171	13,144
Sept	26,117	3,722	10,273	81	12,041
October	23,854	3,181	9,295	42	11,335
November	25,533	3,117	9,864	72	12,481
December	27,502	4,466	10,313	77	12,647
Year 2023					
January	26,755	3,689	10,261	76	12,729
February	22,726	3,154	8,194	47	11,330
March	22,976	2,286	8,726	55	11,909
April	19,527	1,275	7,214	46	10,991
May	24,039	2,708	8,984	24	12,323
June	23,699	3,418	8,748	68	11,465
July	25,577	4,378	9,649	58	11,491
August	25,954	4,149	9,749	85	11,971
Sept	21,915	3,163	7,946	82	10,724
Year to Date					
2021	249,176	32,491	98,509	734	117,442
2022	246,874	35,593	95,654	948	114,679
2023	213,167	28,221	79,471	541	104,933
Rolling 12 Months Ending in September					
2022	325,951	44,970	126,700	1,213	153,069
2023	290,056	38,985	108,943	732	141,396

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 2022 and prior years are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2013-September 2023 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	969,841	10,950	22,905	4,520	931,465
2017	939,633	11,656	22,986	4,522	900,469
2018	929,365	10,297	21,623	4,806	892,639
2019	907,420	3,564	25,740	4,969	873,147
2020	860,062	3,051	25,022	3,595	828,394
2021	870,986	3,520	21,804	2,958	842,704
2022	819,395	4,629	21,579	3,158	790,029
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	72,157	390	2,158	282	69,327
February	65,478	385	1,740	281	63,071
March	68,069	443	1,613	228	65,785
April	68,138	403	1,617	171	65,947
May	69,868	269	1,639	274	67,686
June	68,973	296	1,688	367	66,623
July	71,267	330	1,709	327	68,901
August	70,484	360	1,819	375	67,931
Sept	64,897	408	1,977	199	62,313
October	65,076	230	1,763	149	62,935
November	66,976	513	1,895	250	64,318
December	68,011	603	1,960	256	65,192
Year 2023					
January	70,763	360	1,655	249	68,500
February	62,559	287	1,877	163	60,231
March	66,168	293	2,878	223	62,774
April	58,679	328	2,158	162	56,031
May	63,317	267	2,042	81	60,926
June	58,814	328	2,180	254	56,052
July	60,385	344	1,766	129	58,145
August	60,877	365	1,307	221	58,984
Sept	57,199	316	1,111	256	55,515
Year to Date					
2021	654,215	2,553	16,581	2,249	632,832
2022	619,332	3,284	15,961	2,503	597,584
2023	558,760	2,889	16,975	1,738	537,158
Rolling 12 Months Ending in September					
2022	836,103	4,251	21,184	3,213	807,456
2023	758,824	4,234	22,594	2,393	729,603

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 2022 and prior years are final. Values for 2023 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, 2013-September 2023 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Annual Totals					
2013	1,317,560	43,363	164,063	1,486	1,108,647
2014	1,377,629	54,478	196,775	4,727	1,121,648
2015	1,350,612	53,269	190,587	4,219	1,102,537
2016	1,329,824	51,986	172,421	4,993	1,100,424
2017	1,303,279	54,462	174,862	4,982	1,068,972
2018	1,291,068	56,153	164,911	5,326	1,064,678
2019	1,245,737	45,804	154,720	5,552	1,039,661
2020	1,178,443	34,657	150,717	4,203	988,866
2021	1,199,240	45,387	151,359	3,957	998,537
2022	1,143,159	50,986	146,704	4,297	941,171
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	100,746	4,505	13,306	384	82,552
February	92,833	4,457	12,706	376	75,294
March	94,902	3,663	12,524	297	78,418
April	92,516	3,041	10,914	244	78,317
May	95,906	3,810	11,350	384	80,361
June	96,641	4,356	12,401	495	79,388
July	101,457	5,290	13,216	446	82,505
August	100,192	5,624	12,948	545	81,075
Sept	91,014	4,131	12,251	280	74,354
October	88,930	3,412	11,058	191	74,270
November	92,510	3,630	11,759	322	76,800
December	95,513	5,068	12,273	334	77,839
Year 2023					
January	97,518	4,049	11,916	325	81,229
February	85,284	3,441	10,072	210	71,562
March	89,144	2,579	11,604	278	74,682
April	78,206	1,603	9,372	209	67,022
May	87,356	2,975	11,026	105	73,249
June	82,513	3,747	10,928	322	67,516
July	85,961	4,723	11,416	187	69,636
August	86,831	4,514	11,056	306	70,954
Sept	79,114	3,479	9,057	338	66,240
Year to Date					
2021	903,391	35,044	115,090	2,982	750,274
2022	866,206	38,877	111,615	3,451	712,263
2023	771,927	31,110	96,447	2,279	642,090
Rolling 12 Months Ending in September					
2022	1,162,055	49,220	147,883	4,426	960,526
2023	1,048,880	43,220	131,536	3,126	870,999

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 2022 and prior years are final. Values for 2023 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,
September 2023 and September 2022 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	0	1	-77.0%	0	0	0	1	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	1	-77.0%	0	0	0	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	570	780	-27.0%	0	0	569	779	0	0	1	1
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	570	780	-27.0%	0	0	569	779	0	0	1	1
East North Central	6,662	7,531	-12.0%	4,337	4,503	2,297	2,994	0	2	27	33
Illinois	1,255	1,575	-20.0%	83	95	1,150	1,455	0	0	21	25
Indiana	1,752	1,738	0.8%	1,575	1,537	178	199	0	2	0	0
Michigan	1,200	1,789	-33.0%	1,196	1,775	4	13	0	0	NM	0
Ohio	1,128	1,514	-26.0%	162	188	965	1,326	0	0	0	0
Wisconsin	1,327	915	45.0%	1,321	907	0	0	0	0	6	8
West North Central	7,105	8,010	-11.0%	7,043	7,940	0	0	0	3	62	68
Iowa	895	957	-6.5%	858	911	0	0	0	2	37	43
Kansas	873	1,333	-34.0%	873	1,333	0	0	0	0	0	0
Minnesota	532	608	-12.0%	528	604	0	0	0	0	3	3
Missouri	2,056	2,564	-20.0%	2,056	2,563	0	0	0	1	0	0
Nebraska	1,057	787	34.0%	1,038	770	0	0	0	0	18	17
North Dakota	1,584	1,624	-2.5%	1,580	1,620	0	0	0	0	3	4
South Dakota	109	138	-21.0%	109	138	0	0	0	0	0	0
South Atlantic	4,116	3,463	19.0%	3,613	2,850	493	601	0	0	9	12
Delaware	4	0	--	0	0	4	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	568	539	5.3%	567	538	0	0	0	0	1	NM
Georgia	814	512	59.0%	813	509	0	0	0	0	1	3
Maryland	153	151	1.0%	0	0	153	151	0	0	0	0
North Carolina	484	282	72.0%	483	280	0	0	0	0	0	2
South Carolina	535	478	12.0%	535	475	0	3	0	0	0	1
Virginia	40	46	-12.0%	34	40	0	0	0	0	6	6
West Virginia	1,518	1,455	4.4%	1,182	1,008	336	447	0	0	0	0
East South Central	3,564	3,744	-4.8%	3,479	3,653	78	87	0	0	7	4
Alabama	956	1,220	-22.0%	956	1,220	0	0	0	0	0	0
Kentucky	1,668	1,698	-1.7%	1,668	1,698	0	0	0	0	0	0
Mississippi	196	204	-4.0%	117	117	78	87	0	0	0	0
Tennessee	744	622	20.0%	737	618	0	0	0	0	7	4
West South Central	6,677	6,914	-3.4%	3,168	3,460	3,506	3,453	0	0	4	0
Arkansas	945	1,003	-5.8%	807	833	137	170	0	0	0	0
Louisiana	246	431	-43.0%	234	245	12	186	0	0	0	0
Oklahoma	306	300	2.2%	303	300	0	0	0	0	3	0
Texas	5,181	5,181	0.0%	1,824	2,084	3,357	3,097	0	0	0	0
Mountain	5,250	6,492	-19.0%	4,514	5,742	729	743	0	0	7	7
Arizona	657	879	-25.0%	657	879	0	0	0	0	0	0
Colorado	1,011	1,056	-4.3%	1,011	1,056	0	0	0	0	0	0
Idaho	NM	0	--	0	0	0	0	0	0	NM	0
Montana	635	603	5.3%	0	0	635	603	0	0	NM	0
Nevada	103	124	-17.0%	52	64	51	59	0	0	0	0
New Mexico	432	679	-36.0%	432	679	0	0	0	0	0	0
Utah	694	1,111	-38.0%	694	1,073	0	38	0	0	0	0
Wyoming	1,718	2,039	-16.0%	1,668	1,990	43	43	0	0	7	7
Pacific Contiguous	241	316	-24.0%	0	0	236	312	0	0	4	5
California	4	5	-13.0%	0	0	0	0	0	0	4	5
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	237	312	-24.0%	0	0	236	312	0	0	1	0
Pacific Noncontiguous	51	49	3.9%	39	32	NM	14	4	4	0	0
Alaska	51	49	3.9%	39	32	NM	14	4	4	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	34,237	37,302	-8.2%	26,193	28,179	7,917	8,983	5	9	122	130

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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 September 2023 and September 2022 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	56	141	-60.0%	0	0	56	141	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	8	9	-11.0%	0	0	8	9	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	48	132	-64.0%	0	0	48	132	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	7,575	12,028	-37.0%	0	0	7,559	12,013	0	0	15	14
New Jersey	0	204	-100.0%	0	0	0	204	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	7,575	11,824	-36.0%	0	0	7,559	11,810	0	0	15	14
East North Central	56,010	79,686	-30.0%	35,123	46,652	20,604	32,712	9	13	274	309
Illinois	12,105	19,499	-38.0%	603	819	11,280	18,439	4	4	218	237
Indiana	16,029	20,455	-22.0%	14,576	18,822	1,448	1,624	5	10	0	0
Michigan	9,484	15,340	-38.0%	9,409	15,218	70	122	0	0	4	1
Ohio	9,324	14,270	-35.0%	1,518	1,742	7,806	12,528	0	0	0	0
Wisconsin	9,068	10,121	-10.0%	9,016	10,051	0	0	0	0	52	70
West North Central	62,486	75,386	-17.0%	61,916	74,726	0	0	3	19	567	641
Iowa	7,790	7,955	-2.1%	7,459	7,563	0	0	1	12	330	381
Kansas	8,247	10,392	-21.0%	8,247	10,392	0	0	0	0	0	0
Minnesota	5,340	7,018	-24.0%	5,311	6,980	0	0	1	6	28	32
Missouri	18,211	24,144	-25.0%	18,211	24,143	0	0	1	2	0	0
Nebraska	8,265	9,297	-11.0%	8,085	9,100	0	0	0	0	180	197
North Dakota	13,888	15,455	-10.0%	13,858	15,423	0	0	0	0	30	31
South Dakota	745	1,125	-34.0%	745	1,125	0	0	0	0	0	0
South Atlantic	36,972	41,724	-11.0%	32,888	35,506	4,010	6,117	1	2	72	99
Delaware	10	69	-85.0%	0	0	10	69	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,351	5,322	-18.0%	4,346	5,316	0	0	0	0	6	5
Georgia	6,701	7,003	-4.3%	6,684	6,975	0	0	0	0	16	28
Maryland	724	1,742	-58.0%	0	0	724	1,742	0	0	0	0
North Carolina	4,503	4,793	-6.1%	4,491	4,770	0	0	1	2	11	21
South Carolina	5,025	4,569	10.0%	5,006	4,532	15	34	0	0	4	2
Virginia	678	1,414	-52.0%	642	1,372	0	0	0	0	35	42
West Virginia	14,980	16,813	-11.0%	11,719	12,541	3,261	4,272	0	0	0	0
East South Central	34,166	39,005	-12.0%	31,863	36,554	2,244	2,391	0	0	59	60
Alabama	8,788	10,996	-20.0%	8,788	10,996	0	0	0	0	0	0
Kentucky	15,621	17,178	-9.1%	15,621	17,178	0	0	0	0	0	0
Mississippi	2,988	3,892	-23.0%	744	1,501	2,244	2,391	0	0	0	0
Tennessee	6,769	6,939	-2.5%	6,709	6,879	0	0	0	0	59	60
West South Central	51,668	64,434	-20.0%	24,548	33,016	27,106	31,386	0	0	14	32
Arkansas	7,723	9,527	-19.0%	6,247	7,626	1,472	1,895	0	0	5	6
Louisiana	2,050	4,477	-54.0%	1,694	2,578	356	1,899	0	0	0	0
Oklahoma	2,942	4,824	-39.0%	2,933	4,798	0	0	0	0	9	26
Texas	38,953	45,606	-15.0%	13,674	18,015	25,278	27,591	0	0	0	0
Mountain	43,892	51,062	-14.0%	37,297	44,371	6,524	6,617	0	0	70	74
Arizona	5,222	6,086	-14.0%	5,222	6,086	0	0	0	0	0	0
Colorado	8,029	9,214	-13.0%	8,029	9,214	0	0	0	0	0	0
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	5,464	5,382	1.5%	0	0	5,462	5,380	0	0	2	3
Nevada	905	1,206	-25.0%	470	685	434	521	0	0	0	0
New Mexico	3,535	5,769	-39.0%	3,535	5,769	0	0	0	0	0	0
Utah	6,129	7,991	-23.0%	5,872	7,668	257	323	0	0	0	0
Wyoming	14,606	15,412	-5.2%	14,168	14,948	370	394	0	0	67	70
Pacific Contiguous	2,098	1,715	22.0%	0	0	2,056	1,676	0	0	42	39
California	37	36	3.9%	0	0	0	0	0	0	37	36
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,061	1,679	23.0%	0	0	2,056	1,676	0	0	5	4
Pacific Noncontiguous	428	789	-46.0%	317	298	78	465	33	27	0	0
Alaska	428	419	2.2%	317	298	78	95	33	27	0	0
Hawaii	0	370	-100.0%	0	0	0	370	0	0	0	0
U.S. Total	295,350	365,970	-19.0%	223,952	271,123	70,238	93,518	46	61	1,114	1,267

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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, September 2023 and September 2022 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	55	10	472.0%	6	1	47	5	1	1	1	3
Connecticut	21	NM	NM	1	0	20	NM	NM	0	0	0
Maine	9	5	74.0%	0	0	8	2	0	0	0	3
Massachusetts	18	2	NM	4	1	13	0	NM	0	0	0
New Hampshire	4	1	607.0%	0	0	3	0	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	0	NM	NM	0	0
Vermont	1	0	922.0%	1	0	0	0	0	0	0	0
Middle Atlantic	81	57	41.0%	21	9	55	44	NM	2	3	3
New Jersey	NM	1	NM	0	0	NM	1	NM	0	0	0
New York	67	41	63.0%	21	9	44	32	NM	0	1	0
Pennsylvania	13	15	-17.0%	0	0	9	11	1	1	2	3
East North Central	56	73	-22.0%	35	24	21	47	0	0	1	1
Illinois	4	5	-17.0%	NM	0	3	4	NM	0	0	0
Indiana	12	11	8.2%	12	11	0	NM	0	0	0	0
Michigan	15	7	131.0%	15	6	0	0	NM	NM	0	1
Ohio	21	47	-56.0%	3	4	17	42	0	0	0	1
Wisconsin	NM	3	NM	NM	3	0	0	NM	0	NM	NM
West North Central	68	85	-21.0%	67	85	NM	0	0	0	0	0
Iowa	16	11	49.0%	16	11	0	0	0	0	NM	0
Kansas	9	18	-52.0%	9	18	0	0	0	0	0	0
Minnesota	NM	11	NM	NM	11	NM	0	0	0	0	0
Missouri	22	34	-37.0%	22	34	0	0	0	0	0	0
Nebraska	NM	6	NM	NM	6	0	0	0	0	0	0
North Dakota	8	3	133.0%	8	3	0	0	0	0	0	0
South Dakota	NM	2	NM	NM	2	0	0	NM	0	0	0
South Atlantic	131	178	-27.0%	73	145	40	13	7	5	10	15
Delaware	NM	0	NM	1	0	NM	0	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	19	63	-70.0%	17	61	1	1	0	0	1	NM
Georgia	9	32	-72.0%	NM	18	NM	2	0	0	7	12
Maryland	31	8	271.0%	NM	0	31	8	0	0	0	0
North Carolina	10	13	-24.0%	9	12	NM	0	NM	0	0	1
South Carolina	14	13	14.0%	14	12	0	0	0	0	0	1
Virginia	28	32	-15.0%	15	25	4	1	7	5	1	1
West Virginia	16	17	-8.4%	16	17	0	0	0	0	0	0
East South Central	19	33	-43.0%	18	32	NM	0	0	0	1	0
Alabama	4	1	565.0%	3	0	NM	0	0	0	1	0
Kentucky	6	11	-50.0%	6	11	0	0	0	0	0	0
Mississippi	0	3	-96.0%	0	3	0	0	0	0	0	0
Tennessee	9	19	-51.0%	9	18	0	0	0	0	0	0
West South Central	40	30	34.0%	20	12	20	17	NM	0	0	0
Arkansas	8	7	19.0%	8	3	0	4	0	0	NM	0
Louisiana	2	3	-36.0%	2	3	0	0	0	0	0	0
Oklahoma	6	3	120.0%	6	3	0	0	0	0	0	0
Texas	24	17	41.0%	4	3	19	13	NM	0	0	0
Mountain	36	26	36.0%	33	24	3	2	NM	0	0	0
Arizona	7	3	175.0%	7	3	0	0	NM	0	0	0
Colorado	11	4	159.0%	11	4	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	2	54.0%	NM	0	2	2	0	0	0	0
Nevada	2	3	-31.0%	1	2	0	1	0	0	0	0
New Mexico	NM	3	NM	NM	3	0	0	0	0	0	0
Utah	4	5	-10.0%	4	5	0	0	0	0	0	0
Wyoming	8	7	13.0%	8	7	0	0	0	0	0	0
Pacific Contiguous	10	20	-50.0%	6	6	1	2	1	3	2	9
California	6	18	-65.0%	6	6	0	2	1	3	NM	8
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	3	2	114.0%	NM	0	1	0	0	0	2	1
Pacific Noncontiguous	1,245	1,225	1.6%	1,048	1,003	175	204	1	1	21	17
Alaska	104	106	-2.0%	97	100	0	0	NM	0	7	6
Hawaii	1,141	1,119	1.9%	951	903	175	204	1	1	14	11
U.S. Total	1,741	1,738	0.2%	1,328	1,341	361	335	13	12	39	49

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

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

Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through September 2023 and September 2022 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	647	2,224	-71.0%	47	67	574	2,121	18	21	8	15
Connecticut	272	448	-39.0%	6	6	263	437	1	4	2	1
Maine	86	307	-72.0%	0	0	79	292	0	2	6	13
Massachusetts	150	900	-83.0%	38	46	105	846	7	6	0	1
New Hampshire	85	488	-83.0%	0	0	77	481	8	8	0	0
Rhode Island	52	67	-23.0%	0	1	50	64	1	NM	0	0
Vermont	3	14	-78.0%	NM	14	0	0	0	0	0	0
Middle Atlantic	826	2,482	-67.0%	241	1,009	521	1,423	30	24	33	27
New Jersey	68	77	-12.0%	0	0	67	75	NM	1	0	1
New York	605	2,116	-71.0%	241	1,008	337	1,087	NM	15	9	6
Pennsylvania	153	290	-47.0%	1	2	117	261	12	7	23	20
East North Central	605	982	-38.0%	356	406	240	569	2	2	7	4
Illinois	38	62	-39.0%	10	8	28	54	0	1	0	0
Indiana	158	181	-13.0%	141	156	15	24	0	0	1	1
Michigan	130	151	-14.0%	127	149	0	0	NM	0	2	2
Ohio	222	534	-58.0%	24	42	194	490	1	1	3	1
Wisconsin	58	54	6.9%	54	52	3	1	0	0	1	1
West North Central	658	776	-15.0%	649	767	NM	5	2	2	2	2
Iowa	152	175	-13.0%	150	172	2	3	0	0	0	0
Kansas	93	159	-42.0%	93	159	0	0	0	0	0	0
Minnesota	65	61	7.4%	60	55	NM	3	2	2	2	2
Missouri	164	249	-34.0%	164	249	0	0	0	1	0	0
Nebraska	61	60	1.8%	61	60	0	0	0	0	0	0
North Dakota	80	41	94.0%	80	41	0	0	0	0	0	0
South Dakota	43	31	39.0%	43	31	0	0	NM	0	0	0
South Atlantic	1,346	2,529	-47.0%	934	1,878	244	393	51	117	117	141
Delaware	33	51	-36.0%	2	7	31	44	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	313	639	-51.0%	285	607	19	20	0	0	9	NM
Georgia	133	259	-49.0%	49	135	NM	15	1	5	81	104
Maryland	129	199	-35.0%	2	14	127	184	1	1	NM	NM
North Carolina	136	220	-38.0%	118	205	4	4	NM	4	12	7
South Carolina	142	230	-38.0%	133	217	4	4	0	0	5	8
Virginia	248	745	-67.0%	138	507	54	121	47	107	9	11
West Virginia	213	186	14.0%	209	186	4	0	0	0	0	0
East South Central	302	365	-17.0%	298	357	1	1	0	0	4	7
Alabama	18	18	-2.4%	14	12	1	1	0	0	3	6
Kentucky	92	131	-30.0%	92	131	0	0	0	0	0	0
Mississippi	8	10	-20.0%	7	10	0	0	0	0	1	0
Tennessee	185	206	-10.0%	184	205	0	0	0	0	0	1
West South Central	390	437	-11.0%	164	185	220	248	1	1	5	NM
Arkansas	64	68	-6.7%	52	51	12	17	0	0	NM	0
Louisiana	12	21	-45.0%	12	21	0	0	0	0	0	0
Oklahoma	36	41	-13.0%	33	39	0	0	0	0	3	2
Texas	279	307	-9.2%	68	74	208	231	1	1	2	NM
Mountain	256	259	-0.9%	236	246	19	12	NM	0	1	0
Arizona	45	46	-2.5%	45	46	0	0	NM	0	0	0
Colorado	57	37	53.0%	56	37	0	0	0	0	1	0
Idaho	0	0	18.0%	0	0	0	0	0	0	0	0
Montana	15	10	51.0%	NM	2	13	8	0	0	0	0
Nevada	12	15	-15.0%	11	11	2	3	0	0	0	0
New Mexico	NM	35	NM	NM	35	0	0	0	0	0	0
Utah	44	37	19.0%	40	36	4	1	0	0	0	0
Wyoming	75	78	-4.0%	75	78	0	0	0	0	0	0
Pacific Contiguous	147	178	-17.0%	63	49	13	93	16	7	54	28
California	108	149	-27.0%	50	46	4	80	15	7	39	15
Oregon	NM	0	NM	NM	0	0	0	NM	0	0	0
Washington	38	29	32.0%	12	3	9	13	1	NM	15	13
Pacific Noncontiguous	10,389	9,136	14.0%	8,724	7,580	1,462	1,364	14	9	190	183
Alaska	1,192	1,150	3.6%	1,116	1,080	0	0	1	0	74	70
Hawaii	9,198	7,985	15.0%	7,607	6,500	1,462	1,364	13	9	116	113
U.S. Total	15,567	19,369	-20.0%	11,713	12,544	3,299	6,229	134	184	421	412

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

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

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

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, September 2023 and September 2022 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
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	93	125	-26.0%	60	75	NM	45	0	0	5	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	63	75	-16.0%	58	69	0	0	0	0	5	5
Ohio	28	45	-38.0%	0	0	NM	45	0	0	0	0
Wisconsin	2	6	-60.0%	2	6	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	31	36	-15.0%	29	34	0	0	0	0	NM	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	29	34	-16.0%	29	34	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	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	88	104	-15.0%	87	101	0	0	0	0	1	3
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	87	101	-15.0%	87	101	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1	3	-48.0%	0	0	0	0	0	0	1	3
Mountain	15	15	-5.1%	0	0	15	15	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	15	-5.1%	0	0	15	15	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	226	280	-20.0%	175	210	42	60	0	0	9	10

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

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

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

**Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector,
Year-to-Date through September 2023 and September 2022 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 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	641	924	-31.0%	413	551	180	329	0	0	49	44
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	444	544	-18.0%	396	500	0	0	0	0	48	44
Ohio	180	329	-45.0%	0	0	180	329	0	0	0	0
Wisconsin	17	51	-67.0%	17	51	0	0	0	0	0	0
West North Central	0	2	-84.0%	0	0	0	0	0	2	0	0
Iowa	0	2	-84.0%	0	0	0	0	0	2	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	345	270	28.0%	332	247	0	0	0	0	13	23
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	332	247	35.0%	332	247	0	0	0	0	0	0
Georgia	13	23	-42.0%	0	0	0	0	0	0	13	23
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	7	-100.0%	0	7	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	7	-100.0%	0	7	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	397	873	-54.0%	377	841	0	0	0	0	20	31
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	377	841	-55.0%	377	841	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	20	31	-36.0%	0	0	0	0	0	0	20	31
Mountain	132	123	7.7%	0	0	132	123	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	132	123	7.7%	0	0	132	123	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	1,516	2,199	-31.0%	1,122	1,647	312	451	0	2	82	98

Displayed values of zero may 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 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, September 2023 and September 2022 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	35,597	34,198	4.1%	NM	72	34,377	32,932	514	441	587	753
Connecticut	14,694	15,797	-7.0%	28	45	14,161	15,314	152	157	353	281
Maine	2,271	3,601	-37.0%	0	0	2,216	3,316	12	13	43	272
Massachusetts	9,185	7,338	25.0%	NM	27	8,721	7,002	322	249	52	60
New Hampshire	3,174	3,026	4.9%	0	0	3,155	3,007	6	4	13	16
Rhode Island	6,273	4,435	41.0%	0	0	6,124	4,293	22	17	NM	125
Vermont	0	0	-79.0%	0	0	0	0	0	0	0	0
Middle Atlantic	151,366	136,935	11.0%	9,141	6,598	138,963	127,157	763	719	2,499	2,461
New Jersey	20,498	21,576	-5.0%	NM	114	19,980	21,093	172	163	207	206
New York	44,068	35,860	23.0%	8,985	6,448	34,240	28,605	520	495	324	312
Pennsylvania	86,799	79,499	9.2%	17	36	84,743	77,458	71	61	1,968	1,943
East North Central	143,397	115,485	24.0%	51,205	38,689	88,364	73,642	758	779	3,070	2,375
Illinois	19,592	17,210	14.0%	2,273	2,038	16,535	14,492	218	255	566	426
Indiana	20,643	17,325	19.0%	9,343	7,645	9,659	8,468	98	71	1,543	1,141
Michigan	36,266	27,572	32.0%	17,352	12,269	18,370	14,781	259	286	285	236
Ohio	50,468	40,904	23.0%	6,779	5,212	43,413	35,422	145	127	130	144
Wisconsin	16,428	12,473	32.0%	15,459	11,526	387	479	38	40	545	428
West North Central	32,384	25,737	26.0%	26,791	21,574	4,572	3,284	172	147	849	732
Iowa	6,898	5,749	20.0%	6,572	5,511	NM	0	65	39	260	199
Kansas	4,420	2,415	83.0%	4,180	2,218	0	0	0	0	240	197
Minnesota	7,994	6,828	17.0%	5,224	4,428	2,438	2,084	41	45	291	271
Missouri	8,238	6,758	22.0%	6,032	5,485	2,133	1,200	65	63	8	11
Nebraska	1,732	1,440	20.0%	1,731	1,440	0	0	1	0	0	0
North Dakota	1,599	1,287	24.0%	1,593	1,277	0	0	0	0	7	10
South Dakota	1,501	1,260	19.0%	1,458	1,215	0	0	0	0	43	44
South Atlantic	275,398	276,449	-0.4%	228,948	225,808	43,310	47,842	603	535	2,537	2,263
Delaware	2,744	2,727	0.6%	9	25	2,263	2,265	0	0	442	437
District of Columbia	119	63	90.0%	0	0	0	0	119	63	0	0
Florida	133,710	131,698	1.5%	126,478	121,538	6,388	9,398	NM	58	779	703
Georgia	41,153	41,558	-1.0%	32,419	31,607	8,316	9,581	0	0	418	370
Maryland	9,058	9,614	-5.8%	1,529	2,713	7,220	6,596	288	284	21	20
North Carolina	36,467	39,090	-6.7%	30,656	32,582	5,615	6,330	120	123	76	55
South Carolina	16,460	18,389	-10.0%	15,714	16,156	674	2,195	0	0	72	37
Virginia	33,410	31,943	4.6%	21,976	20,975	10,940	10,565	12	7	482	396
West Virginia	2,278	1,368	67.0%	139	212	1,893	912	0	0	246	244
East South Central	92,672	88,778	4.4%	71,006	66,320	19,806	20,714	86	69	1,774	1,675
Alabama	36,114	39,630	-8.9%	15,925	18,641	19,378	20,325	0	0	811	664
Kentucky	9,184	9,181	0.0%	8,727	8,725	428	384	0	0	29	71
Mississippi	36,547	30,333	20.0%	36,301	30,110	0	5	0	0	245	218
Tennessee	10,827	9,635	12.0%	10,052	8,843	0	0	86	69	689	723
West South Central	306,918	273,362	12.0%	121,867	106,519	150,946	134,400	635	508	33,470	31,935
Arkansas	16,827	18,206	-7.6%	16,064	17,468	657	633	NM	44	71	61
Louisiana	46,748	40,787	15.0%	30,903	25,914	3,158	2,195	34	60	12,652	12,618
Oklahoma	35,917	28,195	27.0%	24,009	18,449	11,689	9,417	0	0	219	328
Texas	207,426	186,174	11.0%	50,891	44,687	135,442	122,155	566	404	20,528	18,928
Mountain	89,937	89,263	0.8%	68,562	69,470	19,957	18,617	249	195	1,170	980
Arizona	39,942	36,635	9.0%	26,996	25,338	12,891	11,245	55	51	0	0
Colorado	10,113	11,397	-11.0%	8,112	8,937	1,896	2,345	1	2	104	113
Idaho	3,553	3,443	3.2%	2,340	2,251	1,142	1,131	14	13	57	47
Montana	593	856	-31.0%	540	603	53	253	0	0	NM	0
Nevada	15,543	18,917	-18.0%	13,763	17,245	1,279	1,303	23	23	478	346
New Mexico	10,122	8,859	14.0%	7,457	6,553	2,599	2,231	45	51	22	23
Utah	8,727	7,965	9.6%	8,387	7,628	NM	109	111	54	133	175
Wyoming	1,344	1,191	13.0%	967	916	1	0	0	0	377	275
Pacific Contiguous	82,166	107,344	-23.0%	33,921	42,301	42,090	58,703	837	932	5,318	5,408
California	55,135	79,346	-31.0%	17,768	25,876	31,727	47,614	746	850	4,893	5,005
Oregon	14,685	14,513	1.2%	7,501	7,577	7,127	6,900	16	14	40	22
Washington	12,347	13,484	-8.4%	8,652	8,847	3,236	4,189	75	68	385	380
Pacific Noncontiguous	2,755	2,133	29.0%	2,738	2,109	0	0	0	0	18	24
Alaska	2,755	2,133	29.0%	2,738	2,109	0	0	0	0	18	24
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,212,591	1,149,683	5.5%	614,297	579,459	542,387	517,292	4,616	4,325	51,292	48,606

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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 September 2023 and September 2022 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	298,866	312,559	-4.4%	NM	1,380	288,132	300,213	4,276	4,516	5,383	6,449
Connecticut	127,582	130,577	-2.3%	346	354	123,150	126,259	1,197	1,226	2,889	2,738
Maine	18,970	22,846	-17.0%	0	0	18,064	20,950	112	116	793	1,780
Massachusetts	81,522	92,835	-12.0%	NM	1,020	77,591	88,167	2,754	2,961	461	686
New Hampshire	25,043	27,256	-8.1%	0	0	24,879	27,098	39	23	125	136
Rhode Island	45,733	39,036	17.0%	0	0	44,447	37,739	171	187	1,115	1,109
Vermont	6	9	-39.0%	2	6	0	0	4	3	0	0
Middle Atlantic	1,285,904	1,230,252	4.5%	84,418	82,346	1,172,419	1,120,681	6,477	6,534	22,590	20,690
New Jersey	177,035	185,525	-4.6%	1,109	1,101	172,672	181,443	1,456	1,479	1,797	1,501
New York	357,783	362,203	-1.2%	83,206	80,982	267,376	273,929	4,442	4,404	2,760	2,888
Pennsylvania	751,086	682,525	10.0%	103	263	732,371	665,309	579	651	18,033	16,301
East North Central	1,241,082	1,023,632	21.0%	478,564	382,395	728,160	608,018	6,393	6,444	27,965	26,775
Illinois	165,414	115,064	44.0%	19,167	14,853	139,707	93,566	1,901	1,968	4,640	4,677
Indiana	205,410	179,537	14.0%	106,251	80,358	83,837	84,661	816	660	14,505	13,859
Michigan	304,311	225,561	35.0%	145,391	102,567	153,945	118,024	2,312	2,516	2,663	2,454
Ohio	409,417	364,383	12.0%	60,008	55,772	347,045	306,213	1,009	917	1,356	1,481
Wisconsin	156,529	139,087	13.0%	147,747	128,845	3,626	5,554	355	384	4,801	4,303
West North Central	284,887	211,866	34.0%	237,859	176,831	37,712	27,185	1,572	1,340	7,745	6,529
Iowa	61,709	46,327	33.0%	58,495	43,896	NM	1	641	370	2,567	2,060
Kansas	37,394	24,003	56.0%	35,356	22,582	0	0	0	0	2,038	1,421
Minnesota	77,785	54,324	43.0%	52,272	35,320	22,564	16,174	368	388	2,581	2,441
Missouri	62,956	55,933	13.0%	47,146	44,223	15,143	11,009	555	577	112	123
Nebraska	16,375	11,096	48.0%	16,367	11,092	0	0	8	4	0	0
North Dakota	14,067	10,584	33.0%	13,986	10,451	0	0	0	0	81	132
South Dakota	14,601	9,618	52.0%	14,236	9,267	0	0	0	0	366	351
South Atlantic	2,333,927	2,306,083	1.2%	1,940,802	1,912,140	365,834	369,836	5,200	4,418	22,090	19,690
Delaware	27,173	27,908	-2.6%	163	457	22,866	24,218	0	0	4,123	3,233
District of Columbia	965	661	46.0%	0	0	0	0	965	661	0	0
Florida	1,096,830	1,085,688	1.0%	1,036,209	1,010,331	53,643	68,367	585	534	6,393	6,455
Georgia	350,371	343,098	2.1%	274,710	261,201	71,936	78,473	0	0	3,725	3,424
Maryland	85,915	77,022	12.0%	23,316	21,419	59,931	53,418	2,481	2,008	186	177
North Carolina	322,577	348,835	-7.5%	270,914	296,256	49,935	50,825	1,034	1,101	693	653
South Carolina	143,215	147,023	-2.6%	138,133	134,116	4,369	12,327	0	0	713	580
Virginia	283,806	262,094	8.3%	192,885	184,454	86,289	73,582	135	113	4,517	3,946
West Virginia	23,076	13,754	68.0%	4,471	3,905	16,866	8,626	0	0	1,739	1,223
East South Central	823,391	852,805	-3.4%	616,227	638,593	190,651	197,908	745	710	15,768	15,594
Alabama	332,997	346,710	-4.0%	138,833	148,868	187,110	191,154	0	0	7,054	6,688
Kentucky	81,952	105,437	-22.0%	77,858	98,134	3,489	6,644	0	0	605	659
Mississippi	317,161	295,322	7.4%	314,944	293,215	52	59	0	0	2,165	2,047
Tennessee	91,282	105,337	-13.0%	84,593	98,376	0	51	745	710	5,945	6,200
West South Central	2,412,359	2,209,248	9.2%	991,452	907,548	1,128,034	1,003,931	4,262	3,797	288,610	293,972
Arkansas	147,107	139,455	5.5%	141,189	132,671	4,957	5,605	301	329	660	850
Louisiana	396,406	400,894	-1.1%	255,493	266,330	31,005	20,314	186	501	109,722	113,749
Oklahoma	282,986	225,113	26.0%	195,829	155,273	84,293	66,996	0	1	2,864	2,843
Texas	1,585,859	1,443,786	9.8%	398,941	353,275	1,007,779	911,015	3,775	2,967	175,364	176,530
Mountain	745,947	651,945	14.0%	588,553	512,324	146,105	129,217	2,047	1,541	9,242	8,863
Arizona	300,563	255,930	17.0%	213,317	179,755	86,812	75,729	434	446	0	0
Colorado	102,987	94,905	8.5%	83,938	79,881	18,168	14,110	12	15	869	900
Idaho	29,484	22,148	33.0%	18,765	14,084	10,154	7,595	127	122	438	347
Montana	7,131	4,566	56.0%	6,309	3,714	818	844	0	0	NM	8
Nevada	135,990	140,582	-3.3%	125,027	126,758	7,582	11,468	203	194	3,178	2,162
New Mexico	87,182	62,916	39.0%	64,417	43,727	21,756	18,619	380	403	630	168
Utah	68,319	61,281	11.0%	65,728	57,861	809	850	891	360	891	2,210
Wyoming	14,289	9,617	49.0%	11,051	6,545	6	3	0	0	3,233	3,069
Pacific Contiguous	687,560	649,617	5.8%	276,791	246,160	356,412	346,177	7,555	7,611	46,802	49,670
California	478,910	496,909	-3.6%	150,062	157,663	279,271	285,588	6,506	7,361	43,072	46,298
Oregon	115,790	89,650	29.0%	64,030	47,409	51,228	41,859	150	142	382	239
Washington	92,859	63,058	47.0%	62,699	41,087	25,913	18,730	898	108	3,349	3,133
Pacific Noncontiguous	24,683	20,266	22.0%	24,487	20,041	0	0	1	0	195	224
Alaska	24,683	20,266	22.0%	24,487	20,041	0	0	1	0	195	224
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	10,138,595	9,468,293	7.1%	5,240,218	4,879,758	4,413,458	4,103,166	38,528	36,912	446,391	448,456

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Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

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

Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, September 2023 and September 2022 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	919	829	11.0%	91	86	810	721	19	22	0	0
Connecticut	NM	12	NM	0	0	NM	12	0	0	0	0
Maine	NM	40	NM	0	0	NM	40	0	0	0	0
Massachusetts	243	214	14.0%	0	0	243	214	0	0	0	0
New Hampshire	122	177	-31.0%	0	0	103	155	19	22	0	0
Rhode Island	390	282	38.0%	0	0	390	282	0	0	0	0
Vermont	106	104	2.5%	91	86	NM	18	0	0	0	0
Middle Atlantic	2,789	2,501	11.0%	0	0	2,682	2,426	NM	27	67	48
New Jersey	334	375	-11.0%	0	0	323	370	NM	5	0	0
New York	1,317	1,311	0.4%	0	0	1,317	1,311	0	0	0	0
Pennsylvania	1,138	815	40.0%	0	0	1,041	744	NM	22	67	48
East North Central	3,619	4,125	-12.0%	749	647	2,837	3,431	20	25	12	22
Illinois	618	631	-2.0%	205	216	413	415	0	0	0	0
Indiana	664	537	23.0%	544	432	119	106	0	0	0	0
Michigan	1,423	1,607	-11.0%	0	0	1,423	1,607	0	0	0	0
Ohio	246	630	-61.0%	0	0	246	630	0	0	0	0
Wisconsin	669	721	-7.3%	0	0	636	674	20	25	12	22
West North Central	743	616	21.0%	320	231	414	374	0	0	NM	10
Iowa	184	167	10.0%	0	0	184	167	0	0	0	0
Kansas	123	116	5.9%	0	0	123	116	0	0	0	0
Minnesota	111	83	33.0%	72	47	NM	36	0	0	0	0
Missouri	175	114	54.0%	107	58	NM	56	0	0	0	0
Nebraska	142	126	13.0%	142	126	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	NM	10	NM	0	0	0	0	0	0	NM	10
South Atlantic	3,677	3,131	17.0%	213	154	3,385	2,882	NM	13	67	83
Delaware	130	110	19.0%	0	0	116	98	0	0	NM	11
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	729	637	14.0%	NM	49	687	588	0	0	0	0
Georgia	495	419	18.0%	0	0	492	401	0	0	3	18
Maryland	137	109	26.0%	0	0	137	109	0	0	0	0
North Carolina	790	669	18.0%	0	0	790	669	0	0	0	0
South Carolina	244	173	41.0%	171	104	NM	15	0	0	NM	54
Virginia	1,134	1,007	13.0%	0	0	1,122	994	NM	13	0	0
West Virginia	NM	9	NM	0	0	NM	9	0	0	0	0
East South Central	420	411	2.1%	189	174	231	237	0	0	0	0
Alabama	NM	72	NM	0	0	NM	72	0	0	0	0
Kentucky	229	198	15.0%	189	174	NM	24	0	0	0	0
Mississippi	NM	14	NM	0	0	NM	14	0	0	0	0
Tennessee	94	127	-26.0%	0	0	94	127	0	0	0	0
West South Central	526	620	-15.0%	0	0	526	620	0	0	0	0
Arkansas	104	87	20.0%	0	0	104	87	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	68	NM	0	0	NM	68	0	0	0	0
Texas	356	466	-23.0%	0	0	356	466	0	0	0	0
Mountain	520	534	-2.7%	NM	41	406	425	66	67	0	0
Arizona	NM	33	NM	0	0	NM	33	0	0	0	0
Colorado	NM	82	NM	0	0	NM	82	0	0	0	0
Idaho	112	113	-0.5%	NM	26	NM	41	NM	45	0	0
Montana	NM	15	NM	NM	15	0	0	0	0	0	0
Nevada	140	131	6.9%	0	0	140	131	0	0	0	0
New Mexico	NM	28	NM	0	0	NM	28	0	0	0	0
Utah	104	132	-21.0%	0	0	84	110	19	22	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,843	4,272	-10.0%	114	127	2,847	3,058	882	1,059	0	28
California	3,361	3,727	-9.8%	NM	7	2,502	2,668	854	1,025	0	28
Oregon	395	465	-15.0%	110	120	258	311	NM	35	0	0
Washington	87	79	11.0%	0	0	87	79	0	0	0	0
Pacific Noncontiguous	70	62	13.0%	0	0	0	0	70	62	0	0
Alaska	70	62	13.0%	0	0	0	0	70	62	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	17,126	17,102	0.1%	1,724	1,461	14,139	14,174	1,108	1,275	155	192

Displayed values of zero may 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 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

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

Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through September 2023 and September 2022 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	8,007	8,149	-1.7%	757	784	7,090	7,176	160	189	0	0
Connecticut	112	112	0.1%	0	0	112	112	0	0	0	0
Maine	380	362	4.8%	0	0	380	362	0	0	0	0
Massachusetts	1,940	1,892	2.5%	0	0	1,940	1,892	0	0	0	0
New Hampshire	1,077	1,603	-33.0%	0	0	918	1,413	160	189	0	0
Rhode Island	3,621	3,234	12.0%	0	0	3,621	3,234	0	0	0	0
Vermont	877	946	-7.3%	757	784	121	162	0	0	0	0
Middle Atlantic	23,790	25,094	-5.2%	0	0	22,594	24,236	302	299	894	558
New Jersey	2,918	3,158	-7.6%	0	0	2,863	3,113	NM	45	0	0
New York	10,930	11,221	-2.6%	0	0	10,930	11,221	0	0	0	0
Pennsylvania	9,942	10,715	-7.2%	0	0	8,801	9,902	247	254	894	558
East North Central	32,777	38,353	-15.0%	6,362	6,300	26,094	31,697	172	209	149	147
Illinois	5,370	6,559	-18.0%	1,862	2,289	3,508	4,269	0	0	0	0
Indiana	5,445	5,019	8.5%	4,500	4,011	945	1,009	0	0	0	0
Michigan	13,770	14,199	-3.0%	0	0	13,770	14,199	0	0	0	0
Ohio	2,269	6,470	-65.0%	0	0	2,269	6,470	0	0	0	0
Wisconsin	5,924	6,106	-3.0%	0	0	5,603	5,750	172	209	149	147
West North Central	5,904	5,779	2.2%	2,307	2,203	3,512	3,481	0	0	85	95
Iowa	1,570	1,613	-2.7%	0	0	1,570	1,613	0	0	0	0
Kansas	1,076	1,045	3.0%	0	0	1,076	1,045	0	0	0	0
Minnesota	785	747	5.1%	453	425	332	323	0	0	0	0
Missouri	1,119	1,026	9.1%	585	526	534	501	0	0	0	0
Nebraska	1,269	1,252	1.3%	1,269	1,252	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	85	95	-11.0%	0	0	0	0	0	0	85	95
South Atlantic	29,976	30,447	-1.5%	1,787	1,817	27,411	27,828	104	124	673	678
Delaware	1,113	1,097	1.5%	0	0	974	985	0	0	139	112
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,930	6,587	-10.0%	621	773	5,308	5,813	0	0	0	0
Georgia	3,953	4,042	-2.2%	0	0	3,938	4,013	0	0	15	29
Maryland	1,101	1,087	1.4%	0	0	1,101	1,087	0	0	0	0
North Carolina	6,542	6,480	1.0%	0	0	6,542	6,480	0	0	0	0
South Carolina	1,849	1,728	7.0%	1,166	1,044	164	147	0	0	519	537
Virginia	9,409	9,341	0.7%	0	0	9,305	9,217	104	124	0	0
West Virginia	77	86	-10.0%	0	0	77	86	0	0	0	0
East South Central	3,467	3,934	-12.0%	1,564	1,646	1,903	2,288	0	0	0	0
Alabama	680	676	0.7%	0	0	680	676	0	0	0	0
Kentucky	1,842	1,923	-4.2%	1,564	1,646	279	277	0	0	0	0
Mississippi	151	135	12.0%	0	0	151	135	0	0	0	0
Tennessee	794	1,201	-34.0%	0	0	794	1,201	0	0	0	0
West South Central	4,447	5,862	-24.0%	0	0	4,447	5,862	0	0	0	0
Arkansas	876	818	7.0%	0	0	876	818	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	642	643	-0.1%	0	0	642	643	0	0	0	0
Texas	2,930	4,401	-33.0%	0	0	2,930	4,401	0	0	0	0
Mountain	4,366	5,013	-13.0%	385	392	3,337	4,017	644	604	0	0
Arizona	320	310	3.4%	0	0	320	310	0	0	0	0
Colorado	655	777	-16.0%	0	0	655	777	0	0	0	0
Idaho	1,007	1,063	-5.3%	250	248	301	392	455	424	0	0
Montana	134	144	-7.0%	134	144	0	0	0	0	0	0
Nevada	1,065	1,236	-14.0%	0	0	1,065	1,236	0	0	0	0
New Mexico	253	261	-3.2%	0	0	253	261	0	0	0	0
Utah	932	1,221	-24.0%	0	0	743	1,042	189	179	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	34,482	37,171	-7.2%	1,013	1,099	24,933	26,752	8,536	9,082	0	238
California	30,179	32,368	-6.8%	NM	64	21,870	23,282	8,261	8,783	0	238
Oregon	3,630	4,120	-12.0%	965	1,035	2,390	2,787	275	298	0	0
Washington	673	683	-1.4%	0	0	673	683	0	0	0	0
Pacific Noncontiguous	559	592	-5.5%	0	0	0	0	559	592	0	0
Alaska	559	592	-5.5%	0	0	0	0	559	592	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	147,773	160,394	-7.9%	14,173	14,240	121,322	133,338	10,477	11,099	1,801	1,716

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Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, September 2023 and September 2022 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	248	245	1.2%	0	0	160	147	89	98	0	0
Connecticut	69	71	-2.2%	0	0	69	71	0	0	0	0
Maine	12	10	16.0%	0	0	9	0	2	10	0	0
Massachusetts	158	156	0.7%	0	0	72	68	86	88	0	0
New Hampshire	10	8	20.0%	0	0	10	8	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	399	395	0.9%	0	0	167	154	231	241	0	0
New Jersey	102	99	3.4%	0	0	29	26	73	73	0	0
New York	146	152	-3.8%	0	0	26	23	120	129	0	0
Pennsylvania	150	144	4.1%	0	0	112	105	38	40	0	0
East North Central	12	13	-9.2%	3	2	0	0	9	11	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	2	-17.0%	0	0	0	0	1	2	0	0
Michigan	7	9	-19.0%	0	0	0	0	7	9	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	2	33.0%	3	2	0	0	0	0	0	0
West North Central	38	37	4.1%	21	15	17	20	NM	1	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	38	37	4.1%	21	15	17	20	NM	1	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	376	414	-9.1%	0	0	204	238	172	176	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	261	283	-7.7%	0	0	159	195	102	88	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	45	43	5.3%	0	0	45	43	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	70	88	-20.0%	0	0	0	0	70	88	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	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	33	58	-42.0%	0	0	25	45	9	13	0	0
California	17	35	-52.0%	0	0	8	22	9	13	0	0
Oregon	5	9	-49.0%	0	0	5	9	0	0	0	0
Washington	12	14	-11.0%	0	0	12	14	0	0	0	0
Pacific Noncontiguous	31	38	-18.0%	0	0	0	0	31	38	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	31	38	-18.0%	0	0	0	0	31	38	0	0
U.S. Total	1,137	1,199	-5.2%	24	18	572	604	540	577	0	0

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Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through September 2023 and September 2022 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	2,213	2,314	-4.4%	0	0	1,420	1,469	793	845	0	0
Connecticut	634	758	-16.0%	0	0	634	758	0	0	0	0
Maine	119	117	2.0%	0	0	82	32	37	84	0	0
Massachusetts	1,378	1,361	1.2%	0	0	622	600	756	761	0	0
New Hampshire	82	78	4.7%	0	0	82	78	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	3,558	3,584	-0.7%	0	0	1,508	1,429	2,050	2,154	0	0
New Jersey	938	919	2.1%	0	0	259	246	679	672	0	0
New York	1,261	1,338	-5.8%	0	0	224	210	1,036	1,128	0	0
Pennsylvania	1,359	1,327	2.5%	0	0	1,025	973	334	354	0	0
East North Central	121	126	-3.4%	26	28	0	0	95	98	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	13	14	-7.7%	0	0	0	0	13	14	0	0
Michigan	83	84	-1.9%	0	0	0	0	83	84	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	26	28	-5.7%	26	28	0	0	0	0	0	0
West North Central	335	346	-3.2%	179	178	155	158	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	335	346	-3.2%	179	178	155	158	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	3,515	3,801	-7.5%	0	0	1,891	2,123	1,624	1,678	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	2,363	2,613	-9.5%	0	0	1,491	1,748	872	865	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	400	375	6.6%	0	0	400	375	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	752	813	-7.5%	0	0	0	0	752	813	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	1	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	1	-100.0%	0	0	0	0	0	1	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	357	460	-22.0%	0	0	268	355	88	105	0	0
California	198	272	-27.0%	0	0	110	167	88	105	0	0
Oregon	50	73	-32.0%	0	0	50	73	0	0	0	0
Washington	109	115	-5.2%	0	0	109	115	0	0	0	0
Pacific Noncontiguous	278	312	-11.0%	0	0	0	0	278	312	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	278	312	-11.0%	0	0	0	0	278	312	0	0
U.S. Total	10,377	10,942	-5.2%	206	206	5,243	5,534	4,928	5,203	0	0

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Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, September 2023 and September 2022 (Billion Btus)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	1,836	2,108	-13.0%	53	32	1,522	1,832	1	0	261	244
Connecticut	NM	0	--	0	0	NM	0	0	0	0	0
Maine	866	1,076	-19.0%	0	0	606	832	0	0	261	244
Massachusetts	NM	84	NM	0	0	NM	84	0	0	0	0
New Hampshire	639	803	-20.0%	0	0	639	803	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	192	145	32.0%	53	32	NM	113	1	0	0	0
Middle Atlantic	211	244	-13.0%	0	0	2	47	0	0	209	197
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	58	111	-48.0%	0	0	0	47	0	0	58	65
Pennsylvania	153	133	16.0%	0	0	2	0	0	0	151	132
East North Central	1,573	1,859	-15.0%	393	510	830	916	0	0	350	433
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,039	1,202	-14.0%	0	0	827	910	0	0	213	292
Ohio	40	59	-32.0%	0	0	3	6	0	0	37	53
Wisconsin	493	598	-18.0%	393	510	0	0	0	0	100	88
West North Central	409	386	6.0%	NM	16	NM	116	81	70	236	184
Iowa	6	5	32.0%	0	0	0	0	6	5	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	362	356	1.9%	NM	16	NM	116	52	62	219	162
Missouri	22	3	657.0%	0	0	0	0	22	3	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	8,623	10,307	-16.0%	1,685	1,962	2,622	3,582	0	11	4,316	4,751
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,103	1,289	-14.0%	515	747	0	0	0	0	588	542
Georgia	3,426	4,241	-19.0%	0	0	1,689	2,096	0	0	1,738	2,145
Maryland	0	11	-100.0%	0	0	0	0	0	11	0	0
North Carolina	622	849	-27.0%	0	0	208	352	0	0	414	498
South Carolina	1,118	1,375	-19.0%	0	0	368	669	0	0	749	706
Virginia	2,354	2,542	-7.4%	1,170	1,215	357	465	0	0	827	861
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,103	2,458	-14.0%	0	0	0	0	0	0	2,103	2,458
Alabama	1,397	1,598	-13.0%	0	0	0	0	0	0	1,397	1,598
Kentucky	122	152	-19.0%	0	0	0	0	0	0	122	152
Mississippi	413	552	-25.0%	0	0	0	0	0	0	413	552
Tennessee	170	157	8.8%	0	0	0	0	0	0	170	157
West South Central	2,142	2,580	-17.0%	727	784	0	0	0	0	1,415	1,796
Arkansas	249	388	-36.0%	0	0	0	0	0	0	249	388
Louisiana	854	992	-14.0%	0	0	0	0	0	0	854	992
Oklahoma	36	52	-30.0%	0	0	0	0	0	0	36	52
Texas	1,002	1,148	-13.0%	727	784	0	0	0	0	275	365
Mountain	438	512	-15.0%	0	0	299	355	0	0	139	157
Arizona	NM	241	NM	0	0	NM	241	0	0	0	0
Colorado	95	105	-9.5%	0	0	95	105	0	0	0	0
Idaho	131	146	-10.0%	0	0	15	10	0	0	116	136
Montana	22	21	4.7%	0	0	0	0	0	0	22	21
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	4,532	5,605	-19.0%	302	419	2,535	3,367	0	0	1,696	1,820
California	3,095	3,925	-21.0%	0	0	2,308	3,019	0	0	786	906
Oregon	538	621	-13.0%	0	0	NM	347	0	0	311	274
Washington	900	1,058	-15.0%	302	419	0	0	0	0	598	640
Pacific Noncontiguous	NM	59	NM	0	0	NM	59	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	59	NM	0	0	NM	59	0	0	0	0
U.S. Total	21,915	26,117	-16.0%	3,163	3,722	7,946	10,273	82	81	10,724	12,041

Displayed values of zero may 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 2023 are preliminary. Values for 2022 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

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

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through September 2023 and September 2022 (Billion Btus)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	20,631	25,135	-18.0%	2,258	2,532	16,001	20,132	4	8	2,368	2,463
Connecticut	879	1,345	-35.0%	0	0	879	1,345	0	0	0	0
Maine	9,111	10,936	-17.0%	0	0	6,743	8,473	0	0	2,368	2,463
Massachusetts	523	790	-34.0%	0	0	523	787	0	3	0	0
New Hampshire	6,568	7,798	-16.0%	0	0	6,568	7,798	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,550	4,266	-17.0%	2,258	2,532	1,288	1,728	4	5	0	0
Middle Atlantic	3,308	5,907	-44.0%	0	0	1,412	3,619	0	0	1,896	2,288
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	1,956	4,306	-55.0%	0	0	1,408	3,616	0	0	548	690
Pennsylvania	1,352	1,601	-16.0%	0	0	4	3	0	0	1,348	1,598
East North Central	15,388	17,923	-14.0%	4,103	4,345	7,687	9,368	0	0	3,598	4,209
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	9,721	11,747	-17.0%	0	0	7,648	9,299	0	0	2,073	2,448
Ohio	613	790	-22.0%	0	0	39	70	0	0	574	721
Wisconsin	5,054	5,385	-6.2%	4,103	4,345	0	0	0	0	951	1,040
West North Central	3,745	4,107	-8.8%	87	41	857	917	495	864	2,305	2,285
Iowa	32	22	45.0%	0	0	0	0	32	22	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	3,355	3,686	-9.0%	87	41	857	917	287	647	2,124	2,081
Missouri	176	195	-9.7%	0	0	0	0	176	195	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	181	204	-11.0%	0	0	0	0	0	0	181	204
South Atlantic	82,953	95,774	-13.0%	15,025	20,425	27,107	30,034	42	76	40,779	45,239
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,025	11,990	-25.0%	3,653	6,080	0	0	0	0	5,372	5,911
Georgia	33,623	36,553	-8.0%	0	0	16,714	17,544	0	0	16,908	19,009
Maryland	42	76	-44.0%	0	0	0	0	42	76	0	0
North Carolina	6,559	6,715	-2.3%	0	0	2,590	2,266	0	0	3,969	4,449
South Carolina	10,979	12,818	-14.0%	0	0	4,473	6,003	0	0	6,506	6,815
Virginia	22,725	27,622	-18.0%	11,372	14,346	3,329	4,221	0	0	8,024	9,055
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	22,522	23,292	-3.3%	0	0	0	0	0	0	22,522	23,292
Alabama	15,500	15,979	-3.0%	0	0	0	0	0	0	15,500	15,979
Kentucky	1,129	1,227	-8.0%	0	0	0	0	0	0	1,129	1,227
Mississippi	4,477	4,755	-5.9%	0	0	0	0	0	0	4,477	4,755
Tennessee	1,416	1,330	6.5%	0	0	0	0	0	0	1,416	1,330
West South Central	18,528	21,941	-16.0%	3,953	5,089	0	0	0	0	14,574	16,852
Arkansas	2,568	3,116	-18.0%	0	0	0	0	0	0	2,568	3,116
Louisiana	8,178	9,421	-13.0%	0	0	0	0	0	0	8,178	9,421
Oklahoma	1,054	1,231	-14.0%	0	0	0	0	0	0	1,054	1,231
Texas	6,729	8,173	-18.0%	3,953	5,089	0	0	0	0	2,776	3,084
Mountain	3,881	4,641	-16.0%	0	0	2,590	3,257	0	0	1,290	1,384
Arizona	1,766	2,169	-19.0%	0	0	1,766	2,169	0	0	0	0
Colorado	726	940	-23.0%	0	0	726	940	0	0	0	0
Idaho	1,211	1,369	-12.0%	0	0	99	148	0	0	1,112	1,221
Montana	179	163	9.6%	0	0	0	0	0	0	179	163
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	41,776	47,614	-12.0%	2,795	3,161	23,382	27,785	0	0	15,599	16,668
California	28,295	33,091	-14.0%	0	0	21,286	25,286	0	0	7,009	7,805
Oregon	5,143	5,465	-5.9%	0	0	2,096	2,499	0	0	3,048	2,966
Washington	8,339	9,058	-7.9%	2,795	3,161	0	0	0	0	5,543	5,897
Pacific Noncontiguous	435	542	-20.0%	0	0	435	542	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	435	542	-20.0%	0	0	435	542	0	0	0	0
U.S. Total	213,167	246,874	-14.0%	28,221	35,593	79,471	95,654	541	948	104,933	114,679

Displayed values of zero may 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 2023 are preliminary. Values for 2022 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, 2013 - September 2023

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									
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	682	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	26,002	302	75,231	15,634	290	16,653	10,368	12
2022	88,861	22,812	318	74,917	14,204	297	13,943	8,608	21
Year 2021, End of Month Stocks									
January	123,705	25,913	253	101,601	16,111	250	22,104	9,802	3
February	107,698	25,306	207	88,851	15,686	189	18,847	9,620	18
March	109,614	25,249	230	89,317	15,692	211	20,296	9,558	19
April	115,505	24,878	353	94,160	15,268	340	21,345	9,610	14
May	117,932	24,840	397	95,618	15,176	382	22,314	9,665	16
June	108,678	24,583	454	88,047	15,028	429	20,632	9,555	25
July	94,974	24,049	453	78,110	14,808	434	16,864	9,242	19
August	81,762	23,589	360	68,021	14,401	347	13,741	9,188	13
Sept	77,476	24,100	375	63,541	14,863	359	13,935	9,236	17
October	81,880	24,378	339	68,087	14,890	326	13,792	9,489	13
November	89,192	24,880	340	73,722	14,922	328	15,469	9,958	12
December	91,884	26,002	302	75,231	15,634	290	16,653	10,368	12
Year 2022, End of Month Stocks									
January	84,541	24,166	336	70,468	14,938	324	14,073	9,228	12
February	81,034	24,252	299	68,800	15,159	287	12,234	9,092	12
March	86,143	23,755	350	73,271	15,156	340	12,872	8,599	10
April	90,746	23,758	424	76,913	15,311	416	13,833	8,446	8
May	92,692	24,025	454	78,852	15,053	425	13,840	8,972	29
June	86,869	24,078	423	73,119	15,309	408	13,750	8,769	16
July	79,172	25,707	474	66,434	15,384	459	12,738	10,323	15
August	75,570	22,794	490	64,278	14,882	479	11,292	7,912	11
Sept	79,354	22,484	405	67,442	14,704	397	11,912	7,780	8
October	87,342	22,771	351	73,276	14,779	344	14,066	7,992	7
November	93,203	23,678	408	78,597	14,925	393	14,605	8,753	15
December	88,861	22,812	318	74,917	14,204	297	13,943	8,608	21
Year 2023, End of Month Stocks									
January	92,505	24,054	374	76,902	14,787	360	15,603	9,267	14
February	99,600	24,299	368	82,081	14,933	356	17,519	9,366	12
March	109,007	23,597	513	89,849	14,805	505	19,158	8,793	8
April	118,038	23,541	607	97,179	14,760	598	20,859	8,782	9
May	126,496	23,331	600	104,364	14,589	592	22,132	8,742	9
June	127,663	23,563	533	104,914	14,752	525	22,750	8,812	8
July	120,795	23,578	441	99,530	14,824	435	21,265	8,754	6
August	117,748	22,938	356	97,671	14,430	348	20,076	8,508	8
Sept	116,587	26,228	279	96,635	15,034	273	19,952	11,193	6

Notes: See Glossary for definitions. Values for 2022 and prior years are final. Values for 2023 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, September 2023 and 2022**

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	September 2023	September 2022	Percentage Change	September 2023	September 2022	Percentage Change	September 2023	September 2022	Percentage Change
New England	W	W	W	2,360	1,744	35.3%	0	0	--
Connecticut	0	0	--	977	699	39.8%	0	0	--
Maine	0	0	--	242	271	-10.7%	0	0	--
Massachusetts	0	0	--	860	441	94.8%	0	0	--
New Hampshire	W	W	W	129	188	-31.0%	0	0	--
Rhode Island	0	0	--	127	124	2.6%	0	0	--
Vermont	0	0	--	25	23	12.2%	0	0	--
Middle Atlantic	2,130	1,927	10.5%	4,519	4,287	5.4%	0	0	--
New Jersey	0	0	--	420	560	-25.0%	0	0	--
New York	0	0	--	2,922	2,454	19.1%	0	0	--
Pennsylvania	2,130	1,927	10.5%	1,176	1,272	-7.5%	0	0	--
East North Central	24,375	14,538	67.7%	1,407	1,830	-23.1%	W	W	W
Illinois	4,330	2,453	76.5%	71	62	14.4%	0	0	--
Indiana	9,081	5,715	58.9%	117	519	-77.5%	0	0	--
Michigan	3,647	3,201	13.9%	191	196	-2.6%	W	W	W
Ohio	4,314	1,341	221.7%	305	313	-2.6%	0	0	--
Wisconsin	3,003	1,829	64.2%	723	739	-2.1%	W	W	W
West North Central	23,633	16,671	41.8%	955	885	7.9%	0	0	--
Iowa	3,975	3,269	21.6%	83	103	-20.2%	0	0	--
Kansas	4,596	2,699	70.3%	NM	196	NM	0	0	--
Minnesota	2,666	2,864	-6.9%	85	97	-12.2%	0	0	--
Missouri	7,291	4,155	75.5%	373	332	12.4%	0	0	--
Nebraska	3,170	2,188	44.9%	72	83	-13.4%	0	0	--
North Dakota	W	W	W	31	27	15.9%	0	0	--
South Dakota	W	W	W	58	47	24.3%	0	0	--
South Atlantic	16,835	12,022	40.0%	11,990	8,806	36.2%	W	W	W
Delaware	W	W	W	382	291	31.3%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	1,964	1,281	53.3%	3,982	3,542	12.4%	W	W	W
Georgia	W	W	W	1,414	1,098	28.7%	0	0	--
Maryland	595	457	30.2%	635	639	-0.6%	0	0	--
North Carolina	3,226	3,268	-1.3%	1,110	1,055	5.2%	0	0	--
South Carolina	2,206	1,021	116.1%	2,944	573	414.2%	0	0	--
Virginia	W	W	W	1,384	1,460	-5.2%	0	0	--
West Virginia	4,293	3,157	36.0%	139	148	-6.6%	W	W	W
East South Central	11,083	7,205	53.8%	1,106	1,073	3.1%	0	0	--
Alabama	3,291	W	W	254	234	8.6%	0	0	--
Kentucky	6,128	3,712	65.1%	258	235	9.9%	0	0	--
Mississippi	W	W	W	NM	4	NM	0	0	--
Tennessee	W	1,670	W	589	600	-1.9%	0	0	--
West South Central	23,443	12,897	81.8%	2,369	1,743	35.9%	W	W	W
Arkansas	4,034	2,747	46.9%	NM	156	NM	0	0	--
Louisiana	3,956	1,723	129.6%	NM	198	NM	W	W	W
Oklahoma	3,871	1,824	112.2%	NM	21	NM	0	0	--
Texas	11,582	6,602	75.4%	1,931	1,369	41.1%	0	0	--
Mountain	W	W	W	NM	322	NM	W	W	W
Arizona	3,718	1,974	88.3%	NM	109	NM	0	0	--
Colorado	3,506	2,118	65.6%	NM	121	NM	0	0	--
Idaho	0	0	--	0	0	-31.1%	0	0	--
Montana	W	W	W	12	14	-11.6%	W	W	W
Nevada	W	W	W	1	2	-30.9%	0	0	--
New Mexico	0	W	W	NM	12	NM	0	0	--
Utah	W	3,055	W	NM	33	NM	0	0	--
Wyoming	3,444	W	W	37	31	18.8%	0	0	--
Pacific Contiguous	W	W	W	359	319	12.6%	0	0	--
California	0	0	--	NM	175	NM	0	0	--
Oregon	0	0	--	56	54	4.7%	0	0	--
Washington	W	W	W	106	90	17.4%	0	0	--
Pacific Noncontiguous	0	W	W	840	1,474	-43.0%	0	0	--
Alaska	0	W	W	8	127	-93.5%	0	0	--
Hawaii	0	0	--	832	1,348	-38.3%	0	0	--
U.S. Total	116,587	79,354	46.9%	26,228	22,484	16.7%	279	405	-31.1%

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

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

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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, September 2023 and 2022**

Census Division	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022
Coal (Thousand Tons)							
New England	W	W	W	0	0	W	W
Middle Atlantic	2,130	1,927	10.5%	W	W	W	W
East North Central	24,375	14,538	67.7%	16,314	10,928	8,061	3,610
West North Central	23,633	16,671	41.8%	23,633	16,671	0	0
South Atlantic	16,835	12,022	40.0%	15,689	10,992	1,146	1,029
East South Central	11,083	7,205	53.8%	11,083	7,205	0	0
West South Central	23,443	12,897	81.8%	16,255	W	7,188	W
Mountain	W	W	W	W	12,299	W	W
Pacific Contiguous	W	W	W	0	0	W	W
Pacific Noncontiguous	0	W	W	0	W	0	W
U.S. Total	116,587	79,354	46.9%	96,635	67,442	19,952	11,912
Petroleum Liquids (Thousand Barrels)							
New England	2,360	1,744	35.3%	152	189	2,208	1,555
Middle Atlantic	4,519	4,287	5.4%	1,898	1,710	2,620	2,576
East North Central	1,407	1,830	-23.1%	1,166	1,202	241	628
West North Central	955	885	7.9%	928	858	27	28
South Atlantic	11,990	8,806	36.2%	7,579	6,876	4,410	1,930
East South Central	1,106	1,073	3.1%	1,067	1,034	39	39
West South Central	2,369	1,743	35.9%	878	867	NM	877
Mountain	NM	322	NM	NM	297	24	26
Pacific Contiguous	359	319	12.6%	258	236	NM	83
Pacific Noncontiguous	840	1,474	-43.0%	809	1,436	31	38
U.S. Total	26,228	22,484	16.7%	15,034	14,704	11,193	7,780
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	279	405	-31.1%	273	397	6	8

W = Withheld to avoid disclosure of individual company data.

Notes: See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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, 2013 - September 2023
(Thousand Tons)**

Period	Electric Power Sector			
	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	67,241	90,376	4,393	162,009
2017	56,140	77,875	3,672	137,687
2018	41,507	58,247	3,039	102,793
2019	54,769	69,942	3,124	128,102
2020	50,649	77,033	3,556	131,431
2021	34,560	54,726	2,598	91,884
2022	35,194	50,704	2,956	88,861
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	109,614
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	47,364	2,956	81,880
November	34,389	51,524	3,279	89,192
December	34,560	54,726	2,598	91,884
Year 2022, End of Month Stocks				
January	30,697	51,157	2,686	84,541
February	29,288	49,029	2,717	81,034
March	31,687	51,304	3,152	86,143
April	33,868	53,609	3,269	90,746
May	33,202	56,289	3,191	92,692
June	30,392	53,338	3,129	86,869
July	28,769	47,358	3,040	79,172
August	28,730	44,005	2,826	75,570
Sept	30,766	45,802	2,776	79,354
October	34,061	50,366	2,905	87,342
November	35,998	54,329	2,867	93,203
December	35,194	50,704	2,956	88,861
Year 2023, End of Month Stocks				
January	37,782	51,702	3,014	92,505
February	39,938	56,635	3,022	99,600
March	41,608	64,404	2,990	109,007
April	41,713	72,780	3,330	118,038
May	44,954	77,825	3,499	126,496
June	46,100	77,743	3,600	127,663
July	42,548	74,528	3,497	120,795
August	42,328	71,784	3,423	117,748
Sept	40,931	72,192	3,246	116,587

Notes: See Glossary for definitions.

Values for 2022 and prior years are final. Values for 2023 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), 2013 - September 2023

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
Annual Totals												
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	8,753,931	461,477	1.98	37.48	1.30	90.2	97,464	16,302	14.71	87.98	0.50	68.8
2022	8,876,242	469,718	2.36	44.69	1.28	97.3	116,941	19,362	23.81	143.90	0.46	58.8
Year 2021												
January	721,822	37,923	1.90	36.18	1.33	82.2	8,297	1,371	11.16	67.55	0.51	70.0
February	598,208	31,277	1.93	36.86	1.39	64.1	9,442	1,586	12.35	73.54	0.53	48.0
March	690,135	36,221	1.89	36.09	1.34	102.4	7,379	1,225	13.34	80.40	0.52	73.0
April	676,994	35,262	1.90	36.39	1.36	114.3	6,436	1,072	13.82	82.94	0.53	65.0
May	725,294	38,035	1.89	36.11	1.32	104.4	7,200	1,208	14.32	85.31	0.50	72.7
June	769,551	40,228	1.95	37.35	1.34	82.4	8,076	1,350	14.89	89.05	0.48	73.2
July	794,454	42,304	2.01	37.71	1.24	73.9	7,061	1,187	15.07	89.65	0.56	67.2
August	806,708	42,609	2.06	38.94	1.30	74.6	7,313	1,224	15.21	90.89	0.50	52.2
Sept	753,610	39,986	2.01	37.87	1.24	88.4	10,042	1,655	14.67	89.03	0.48	88.3
October	730,388	38,598	2.03	38.39	1.29	105.9	8,138	1,365	16.43	97.99	0.44	74.7
November	745,529	39,706	2.04	38.24	1.27	117.6	8,498	1,438	17.71	104.67	0.48	79.5
December	741,236	39,329	2.07	39.06	1.25	111.0	9,582	1,620	17.19	101.69	0.49	81.7
Year 2022												
January	748,490	40,043	2.20	41.14	1.21	80.5	15,788	2,634	17.75	106.45	0.44	46.7
February	681,147	36,139	2.17	40.91	1.18	88.4	11,156	1,843	18.43	111.66	0.45	80.0
March	742,161	38,990	2.15	40.98	1.29	110.2	7,340	1,213	22.37	135.30	0.50	58.7
April	672,360	35,230	2.18	41.64	1.35	110.8	7,294	1,200	26.32	160.05	0.50	68.9
May	735,568	38,856	2.23	42.27	1.33	107.6	5,935	981	27.93	168.98	0.49	51.7
June	719,549	38,159	2.32	43.68	1.31	89.5	8,884	1,465	28.80	174.88	0.48	71.5
July	758,950	40,292	2.47	46.53	1.32	80.0	8,652	1,433	29.11	175.78	0.50	60.2
August	827,629	43,801	2.51	47.38	1.29	88.8	8,178	1,354	26.26	158.61	0.50	63.3
Sept	786,290	41,593	2.51	47.42	1.29	108.9	8,245	1,356	24.33	147.96	0.47	66.5
October	776,764	41,185	2.46	46.42	1.28	127.2	9,342	1,536	23.53	143.20	0.45	72.1
November	717,670	38,063	2.48	46.73	1.22	114.3	9,890	1,643	26.21	157.82	0.44	81.7
December	709,662	37,366	2.65	50.25	1.32	87.4	16,237	2,704	21.53	129.24	0.41	41.4
Year 2023												
January	722,110	37,972	2.59	49.30	1.26	104.2	13,446	2,236	21.83	131.41	0.48	102.7
February	637,812	33,783	2.60	49.04	1.27	122.0	9,899	1,629	20.13	122.47	0.46	71.1
March	710,779	37,677	2.51	47.30	1.26	127.9	7,291	1,198	20.48	124.67	0.52	58.1
April	631,282	33,546	2.48	46.67	1.24	142.1	6,942	1,135	19.35	118.40	0.48	61.1
May	639,628	33,727	2.51	47.71	1.24	128.0	7,434	1,223	18.78	114.12	0.49	63.8
June	645,337	34,165	2.47	46.71	1.23	99.8	7,371	1,211	17.65	107.48	0.48	66.2
July	700,790	37,440	2.49	46.54	1.19	82.9	8,602	1,397	17.40	107.10	0.43	73.7
August	734,722	38,969	2.50	47.17	1.21	87.3	7,189	1,182	19.94	121.86	0.43	59.8
Sept	648,869	34,356	2.53	47.81	1.18	98.2	7,546	1,231	22.60	138.68	0.42	62.7
Year to Date												
2021	6,536,778	343,844	1.95	37.11	1.31	84.7	71,246	11,879	13.83	82.93	0.51	65.7
2022	6,672,146	353,104	2.31	43.68	1.29	94.3	81,472	13,479	23.98	145.02	0.48	60.5
2023	6,071,329	321,635	2.52	47.58	1.23	106.3	75,722	12,442	19.93	121.39	0.47	69.3
Rolling 12 Months Ending in September												
2022	8,889,299	470,737	2.25	42.40	1.28	98.0	107,890	17,902	22.10	132.98	0.47	64.2
2023	8,275,425	438,249	2.52	47.63	1.24	106.6	111,190	18,325	21.03	127.69	0.45	64.0

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

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

- Values for 2022 and prior years are final. Values for 2023 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), 2013 - September 2023 (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													
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	11,966,785	11,578,254	5.20	5.38	91.0	3.82	
2022	64,689	2,286	4.35	122.99	5.52	61.8	12,840,250	12,436,074	7.21	7.45	91.5	5.22	
Year 2021													
January	5,427	190	2.59	73.95	5.38	53.5	935,243	904,098	3.20	3.31	90.4	2.65	
February	4,645	164	2.33	66.18	5.37	48.4	830,601	802,116	17.12	17.72	89.5	10.44	
March	6,956	247	2.56	72.10	5.28	75.6	798,147	771,536	3.29	3.40	89.7	2.67	
April	5,749	206	2.88	80.22	5.16	87.7	816,428	790,693	3.06	3.16	90.2	2.56	
May	5,309	185	2.73	78.46	5.43	64.2	875,903	848,391	3.26	3.37	91.1	2.67	
June	5,260	184	3.34	95.30	5.13	72.5	1,155,691	1,118,842	3.53	3.64	92.2	2.91	
July	6,204	219	3.35	94.94	5.15	64.3	1,294,299	1,251,521	4.08	4.22	91.1	3.28	
August	4,179	147	3.21	91.15	5.43	40.8	1,322,978	1,280,246	4.42	4.57	91.7	3.51	
Sept	5,608	203	3.62	100.04	4.77	63.9	1,044,514	1,010,980	5.04	5.21	91.2	3.76	
October	4,814	170	3.03	85.94	5.27	53.0	1,004,119	972,180	5.69	5.88	91.5	4.13	
November	6,105	218	4.34	121.62	5.04	57.1	930,616	900,672	5.77	5.96	90.6	4.11	
December	4,634	163	3.89	110.86	5.60	52.3	958,246	926,980	5.64	5.83	91.7	4.09	
Year 2022													
January	5,343	189	4.32	122.16	5.11	64.0	1,021,396	988,075	6.56	6.78	91.1	4.74	
February	4,050	141	4.24	121.53	5.80	44.9	857,192	829,722	6.00	6.20	90.0	4.32	
March	5,791	205	4.84	136.40	5.31	74.6	839,836	814,025	5.10	5.26	90.2	3.75	
April	6,637	235	4.80	135.31	5.57	83.6	807,698	783,189	6.21	6.41	91.0	4.40	
May	5,992	212	4.97	140.62	5.48	67.1	990,628	960,839	7.57	7.80	92.1	5.25	
June	4,887	173	4.50	126.93	5.51	52.0	1,204,672	1,168,959	8.01	8.26	92.3	5.86	
July	5,781	205	4.65	131.34	5.54	75.9	1,466,772	1,422,545	7.53	7.76	92.5	5.78	
August	6,465	228	5.02	142.06	5.62	73.6	1,443,158	1,397,570	9.00	9.30	92.3	6.54	
Sept	3,818	134	2.32	66.08	5.74	40.7	1,184,368	1,145,493	8.15	8.42	91.9	5.81	
October	4,142	147	3.37	94.92	5.75	45.3	1,005,835	973,705	5.80	5.99	91.3	4.37	
November	6,485	229	3.84	108.96	5.53	76.8	959,373	929,074	5.71	5.89	90.5	4.38	
December	5,298	187	4.19	118.73	5.50	52.7	1,059,322	1,022,878	8.92	9.24	91.3	6.38	
Year 2023													
January	4,871	176	4.54	126.02	5.67	85.4	967,482	934,718	7.08	7.33	85.2	5.20	
February	3,886	136	4.80	136.95	5.62	74.2	866,448	839,005	4.39	4.53	84.7	3.71	
March	4,905	172	4.66	132.76	5.71	99.5	918,899	890,394	3.35	3.46	84.0	3.05	
April	4,768	168	4.70	133.61	5.72	106.9	848,844	823,103	2.69	2.78	83.8	2.69	
May	1,985	72	3.14	86.86	5.76	41.4	972,229	943,268	2.54	2.61	84.6	2.61	
June	1,853	66	3.48	98.25	5.77	33.2	1,118,676	1,084,790	2.58	2.66	83.7	2.60	
July	2,787	100	3.62	101.16	5.45	32.6	1,365,367	1,322,828	2.96	3.06	82.7	2.86	
August	2,311	84	3.39	93.79	5.73	26.6	1,368,138	1,325,824	2.92	3.01	83.3	2.82	
Sept	3,289	118	3.76	104.81	5.48	42.4	1,135,269	1,102,086	2.86	2.94	84.0	2.82	
Year to Date													
2021	49,338	1,745	2.96	83.55	5.22	62.0	9,073,804	8,778,422	5.04	5.21	90.9	3.72	
2022	48,763	1,724	4.51	127.71	5.51	63.2	9,815,720	9,510,416	7.32	7.56	91.7	5.27	
2023	30,656	1,091	4.21	118.33	5.65	54.8	9,561,351	9,266,015	3.41	3.52	83.9	3.13	
Rolling 12 Months Ending in September													
2022	64,317	2,274	4.34	122.80	5.45	60.8	12,708,701	12,310,248	6.96	7.19	91.6	5.00	
2023	46,581	1,653	4.08	115.00	5.63	55.7	12,585,882	12,191,673	4.24	4.38	85.5	3.62	

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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 2022 and prior years are final. Values for 2023 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, 2013 - September 2023

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												
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,256,878	476,207	2.16	42.01	1.21	95.4	73,294	11,985	9.16	56.02	0.45	74.0
2017	9,011,629	467,595	2.12	40.81	1.16	96.0	70,422	11,640	11.60	70.19	0.47	74.4
2018	8,351,036	435,964	2.11	40.35	1.18	91.6	84,050	13,896	14.39	87.09	0.37	75.3
2019	7,970,069	413,915	2.08	39.99	1.18	103.1	66,789	11,010	13.40	81.29	0.46	69.9
2020	6,256,811	327,488	1.96	37.49	1.15	100.2	56,530	9,371	9.84	59.37	0.47	67.1
2021	6,448,846	338,205	2.03	38.68	1.14	90.2	69,111	11,468	14.53	87.56	0.47	67.7
2022	6,594,794	346,120	2.41	45.96	1.15	98.4	73,400	12,131	24.43	147.80	0.48	65.6
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	78.15	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	546,113	29,056	2.24	42.12	1.06	81.3	6,596	1,103	17.23	103.03	0.46	46.9
February	500,644	26,344	2.19	41.69	1.05	91.5	6,361	1,045	18.65	113.52	0.48	83.4
March	537,576	28,123	2.18	41.71	1.14	115.4	5,580	926	22.53	135.80	0.49	70.7
April	486,354	25,278	2.24	43.02	1.17	113.7	5,684	934	26.28	159.85	0.48	84.8
May	552,474	28,904	2.29	43.87	1.16	108.7	4,509	747	28.14	169.81	0.48	58.4
June	537,295	28,300	2.35	44.64	1.14	88.2	7,089	1,166	28.58	173.77	0.48	90.3
July	557,748	29,313	2.47	47.07	1.18	76.9	6,739	1,115	28.96	175.11	0.48	80.8
August	627,619	32,918	2.53	48.27	1.19	90.2	5,736	947	26.06	157.81	0.47	72.6
Sept	599,306	31,443	2.60	49.50	1.17	110.8	5,857	966	24.83	150.60	0.48	71.8
October	579,715	30,502	2.53	48.08	1.16	129.7	6,272	1,028	23.81	145.25	0.48	74.8
November	542,727	28,448	2.55	48.63	1.14	121.1	5,760	953	26.15	158.05	0.46	70.9
December	527,223	27,491	2.69	51.67	1.22	86.5	7,217	1,202	23.01	138.22	0.46	38.2
Year 2023												
January	554,812	29,110	2.65	50.47	1.13	105.8	9,846	1,638	21.92	131.75	0.47	116.1
February	479,262	25,198	2.67	50.86	1.16	125.0	6,200	1,029	22.06	132.92	0.48	79.1
March	546,979	28,703	2.54	48.35	1.19	134.6	5,486	904	20.63	125.13	0.48	70.4
April	478,808	25,008	2.51	48.15	1.16	154.3	5,176	845	19.25	117.85	0.47	69.3
May	486,315	25,331	2.55	48.94	1.14	136.0	5,694	940	18.81	113.95	0.48	72.9
June	501,196	26,136	2.51	48.18	1.16	99.8	5,907	971	17.44	106.15	0.47	74.9
July	551,953	29,025	2.54	48.23	1.13	83.8	6,695	1,085	17.08	105.38	0.44	87.6
August	579,776	30,274	2.55	48.89	1.15	88.7	4,557	745	19.76	120.98	0.47	53.5
Sept	506,645	28,434	2.59	49.57	1.12	100.4	5,729	933	22.71	139.48	0.43	70.1
Year to Date												
2021	4,836,338	253,015	2.01	38.42	1.15	84.3	52,697	8,716	13.74	83.08	0.48	67.1
2022	4,945,129	259,680	2.35	44.82	1.14	95.2	54,151	8,948	24.50	148.28	0.48	70.9
2023	4,685,746	245,218	2.57	49.07	1.15	108.9	55,292	9,090	20.08	122.12	0.46	77.3
Rolling 12 Months Ending in September												
2022	6,557,637	344,869	2.29	43.49	1.13	99.3	70,565	11,700	22.77	137.33	0.47	70.6
2023	6,335,411	331,659	2.57	49.15	1.15	109.1	74,541	12,273	21.14	128.42	0.47	69.6

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 2022 and prior years are final. Values for 2023 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, 2013 - September 2023 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost			Percentage of Consumption	Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight		(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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	4,794,983	4,640,827	3.62	3.74	96.8	2.68
2018	83,211	2,940	2.56	72.34	5.74	106.8	5,562,903	5,388,544	3.68	3.80	96.2	2.80
2019	54,266	1,896	1.92	54.88	5.50	91.0	6,038,432	5,842,392	3.03	3.13	97.0	2.53
2020	65,684	2,317	1.70	48.07	5.39	101.8	6,207,039	6,011,244	2.63	2.72	96.3	2.32
2021	64,891	2,296	3.16	89.27	5.24	98.0	5,901,472	5,713,855	5.21	5.39	96.4	3.60
2022	64,607	2,283	4.35	122.99	5.52	99.5	6,393,812	6,200,191	7.49	7.73	96.5	5.01
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	503,615	487,628	7.15	7.39	96.7	4.67
February	4,050	141	4.24	121.53	5.80	75.1	414,806	402,121	6.13	6.32	96.1	4.08
March	5,791	205	4.84	136.40	5.31	142.5	408,255	396,288	5.28	5.43	96.4	3.63
April	6,637	235	4.80	135.31	5.57	150.6	395,234	383,835	6.25	6.44	97.3	4.17
May	5,992	212	4.97	140.62	5.48	99.1	494,026	479,966	7.53	7.75	97.5	4.86
June	4,887	173	4.50	126.93	5.51	76.9	621,160	603,483	8.29	8.53	96.3	5.66
July	5,781	205	4.65	131.34	5.54	115.1	749,263	727,668	7.75	7.98	96.1	5.61
August	6,465	228	5.02	142.06	5.62	127.5	723,303	700,993	9.35	9.65	96.4	6.25
Sept	3,818	134	2.32	66.08	5.74	63.7	579,405	560,966	8.53	8.81	96.2	5.58
October	4,060	144	3.35	94.31	5.74	74.8	493,094	478,019	6.19	6.38	96.6	4.31
November	6,485	229	3.84	108.96	5.53	124.4	482,176	467,566	6.05	6.24	96.6	4.31
December	5,298	187	4.19	118.73	5.50	73.4	529,475	511,657	9.05	9.36	96.7	5.97
Year 2023												
January	4,871	176	4.54	126.02	5.67	151.3	465,072	449,491	8.72	9.03	88.6	5.56
February	3,886	136	4.80	136.95	5.62	125.8	410,830	398,400	4.95	5.10	87.5	3.85
March	4,905	172	4.66	132.76	5.71	228.6	442,406	429,205	3.76	3.88	87.2	3.19
April	4,768	168	4.70	133.61	5.72	218.3	416,100	404,457	3.05	3.13	86.8	2.87
May	1,985	72	3.14	86.86	5.76	94.2	490,552	476,749	2.86	2.94	86.9	2.80
June	1,853	66	3.48	98.25	5.77	61.3	551,525	535,472	2.93	3.01	85.5	2.81
July	2,787	100	3.62	101.16	5.45	50.5	672,471	652,468	3.27	3.37	83.9	3.02
August	2,311	84	3.39	93.79	5.73	42.4	683,473	663,435	3.30	3.40	84.3	3.02
Sept	3,289	118	3.76	104.81	5.48	67.3	543,579	528,891	3.31	3.40	85.5	3.07
Year to Date												
2021	49,338	1,745	2.96	83.55	5.22	102.7	4,512,826	4,368,382	5.01	5.17	96.5	3.51
2022	48,763	1,724	4.51	127.71	5.51	103.6	4,889,067	4,742,948	7.60	7.93	96.5	5.06
2023	30,656	1,091	4.21	118.33	5.65	96.5	4,676,007	4,538,568	3.91	4.03	86.0	3.34
Rolling 12 Months Ending in September												
2022	64,317	2,274	4.34	122.80	5.45	98.6	6,277,713	6,088,422	7.22	7.44	96.4	4.79
2023	46,499	1,650	4.08	114.98	5.63	93.7	6,180,752	5,995,811	4.70	4.84	88.3	3.73

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 2022 and prior years are final. Values for 2023 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, 2013 - September 2023

Period	Coal							Petroleum Liquids					
	Receipts		Average Cost			Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	(Billion Btu)			(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)			
Annual Totals													
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	228,600	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	2,163,331	116,480	1.79	33.35	1.79	92.0	25,972	4,447	15.38	89.84	0.47	101.6	
2022	2,142,472	116,864	2.19	40.16	1.69	96.4	41,066	6,827	22.83	137.45	0.39	69.1	
Year 2021													
January	185,620	9,964	1.67	31.08	1.80	84.3	1,993	340	11.82	69.33	0.60	106.2	
February	154,531	8,265	1.77	33.10	1.84	71.5	2,100	381	11.10	64.65	0.63	54.2	
March	176,736	9,439	1.70	31.96	1.81	108.5	1,737	297	13.80	80.67	0.55	109.2	
April	158,802	8,408	1.73	32.61	1.89	112.6	1,752	300	14.50	84.69	0.55	109.2	
May	172,615	9,414	1.69	31.05	1.79	110.2	2,150	369	15.19	88.44	0.51	130.5	
June	185,308	9,823	1.77	33.34	1.83	84.2	2,152	367	15.80	92.53	0.49	92.3	
July	186,143	10,139	1.79	32.99	1.78	72.1	1,600	275	15.25	88.82	0.48	77.4	
August	191,383	10,378	1.83	33.74	1.77	76.1	1,757	300	15.27	89.45	0.50	74.3	
Sept	184,552	9,982	1.80	33.31	1.74	93.8	1,514	262	15.86	91.81	0.43	83.3	
October	185,243	10,015	1.85	34.18	1.74	102.4	2,554	440	17.08	99.21	0.33	147.2	
November	196,451	10,599	1.96	36.28	1.78	114.9	3,274	560	17.91	104.62	0.42	153.5	
December	185,947	10,053	1.94	35.96	1.74	105.9	3,389	576	17.33	101.92	0.41	134.2	
Year 2022													
January	190,059	10,391	2.06	37.66	1.62	79.5	8,892	1,482	18.48	111.05	0.39	51.8	
February	169,787	9,274	2.07	37.95	1.56	82.2	4,566	762	18.20	109.02	0.36	96.9	
March	191,644	10,240	2.04	38.27	1.72	101.2	1,540	252	22.72	138.89	0.45	63.0	
April	175,332	9,448	1.99	37.03	1.86	107.7	1,498	247	27.01	163.98	0.48	89.1	
May	170,813	9,355	2.01	36.76	1.87	107.8	1,250	205	28.43	173.23	0.48	73.6	
June	170,764	9,296	2.20	40.47	1.83	95.7	1,651	275	30.73	185.03	0.41	72.6	
July	188,956	10,384	2.45	44.55	1.71	90.8	1,756	293	30.58	183.42	0.47	48.7	
August	189,136	10,350	2.41	44.15	1.63	86.5	2,286	381	27.18	162.89	0.47	67.6	
Sept	175,484	9,589	2.16	39.62	1.72	106.1	2,185	358	23.44	143.49	0.41	98.3	
October	185,852	10,141	2.18	40.02	1.67	126.2	2,848	471	23.30	140.86	0.35	112.5	
November	164,764	9,127	2.20	39.71	1.49	101.3	3,910	654	26.55	158.67	0.37	194.2	
December	169,882	9,269	2.47	45.38	1.65	91.6	8,682	1,447	19.92	119.50	0.33	55.5	
Year 2023													
January	156,195	8,313	2.36	44.43	1.71	103.2	3,264	542	22.01	132.88	0.42	160.8	
February	147,634	8,061	2.25	41.37	1.64	119.0	3,366	545	16.69	103.54	0.39	80.1	
March	153,230	8,449	2.32	42.11	1.54	114.8	1,365	220	21.17	131.15	0.47	56.5	
April	141,123	7,974	2.28	40.36	1.50	119.7	1,466	240	20.18	123.46	0.37	71.4	
May	142,737	7,876	2.33	42.29	1.60	112.8	1,430	232	19.31	118.84	0.43	61.1	
June	133,987	7,498	2.29	41.04	1.52	102.6	1,371	225	18.64	113.46	0.47	79.5	
July	139,185	7,916	2.26	39.73	1.45	80.9	1,765	290	18.69	113.88	0.38	69.3	
August	144,837	8,180	2.25	39.94	1.46	83.6	2,496	416	20.47	124.57	0.28	125.9	
Sept	133,508	7,491	2.25	40.04	1.41	94.2	1,664	274	22.77	139.09	0.31	70.8	
Year to Date													
2021	1,595,690	85,813	1.75	32.58	1.80	87.5	16,756	2,871	14.23	83.05	0.52	87.4	
2022	1,621,975	88,328	2.16	39.68	1.72	93.9	25,625	4,255	23.14	139.55	0.41	65.3	
2023	1,292,437	71,758	2.29	41.28	1.54	101.6	18,188	2,984	19.85	121.47	0.39	84.2	
Rolling 12 Months Ending in September													
2022	2,189,616	118,995	2.10	38.60	1.73	97.1	34,841	5,831	21.16	126.51	0.41	76.7	
2023	1,812,934	100,294	2.29	41.39	1.56	102.5	33,629	5,556	20.96	127.08	0.37	80.5	

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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 2022 and prior years are final. Values for 2023 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.

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- See the Technical Notes for fuel conversion factors.

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

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2013 - September 2023 (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												
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	5,255,390	5,077,009	5.29	5.48	95.7	4.16
2022	0	0	--	--	--	0.0	5,602,375	5,414,698	6.95	7.20	95.5	5.50
Year 2021												
January	0	0	--	--	--	0.0	404,229	390,207	2.97	3.08	95.6	2.54
February	0	0	--	--	--	0.0	370,876	357,402	20.68	21.46	95.0	14.35
March	0	0	--	--	--	0.0	336,016	324,135	2.83	2.93	95.0	2.44
April	0	0	--	--	--	0.0	342,406	330,947	2.72	2.82	94.7	2.41
May	0	0	--	--	--	0.0	368,697	356,493	2.86	2.96	94.6	2.49
June	0	0	--	--	--	0.0	513,031	496,348	3.26	3.37	97.9	2.83
July	0	0	--	--	--	0.0	569,314	560,203	3.87	4.00	94.9	3.29
August	0	0	--	--	--	0.0	595,029	575,225	4.26	4.41	95.8	3.59
Sept	0	0	--	--	--	0.0	470,580	454,842	4.91	5.08	95.6	3.92
October	0	0	--	--	--	0.0	456,780	441,354	5.36	5.55	95.7	4.27
November	0	0	--	--	--	0.0	406,881	392,716	5.34	5.54	95.2	4.18
December	0	0	--	--	--	0.0	421,552	407,135	5.90	6.11	98.3	4.61
Year 2022												
January	0	0	--	--	--	0.0	440,567	425,442	6.15	6.38	95.6	4.92
February	0	0	--	--	--	0.0	375,891	363,057	5.88	6.09	94.2	4.62
March	0	0	--	--	--	0.0	359,407	347,490	4.96	5.14	95.0	3.87
April	0	0	--	--	--	0.0	344,208	332,882	6.22	6.44	95.5	4.66
May	0	0	--	--	--	0.0	428,890	414,929	7.60	7.86	96.4	5.80
June	0	0	--	--	--	0.0	513,920	497,609	7.55	7.81	96.1	6.03
July	0	0	--	--	--	0.0	644,066	623,293	7.29	7.54	96.2	6.04
August	0	0	--	--	--	0.0	645,276	623,863	8.56	8.86	95.5	6.95
Sept	0	0	--	--	--	0.0	538,145	519,483	7.58	7.86	95.8	6.04
October	0	0	--	--	--	0.0	446,464	431,379	5.29	5.48	95.5	4.32
November	0	0	--	--	--	0.0	407,043	393,319	5.35	5.54	94.1	4.44
December	0	0	--	--	--	0.0	458,497	441,951	9.26	9.61	95.4	7.27
Year 2023												
January	0	0	--	--	--	0.0	432,340	417,130	5.34	5.54	91.4	4.53
February	0	0	--	--	--	0.0	392,667	379,376	3.91	4.05	91.4	3.48
March	0	0	--	--	--	0.0	408,837	395,267	2.94	3.04	90.2	2.80
April	0	0	--	--	--	0.0	371,695	359,263	2.28	2.36	89.1	2.34
May	0	0	--	--	--	0.0	417,032	403,626	2.11	2.18	90.1	2.22
June	0	0	--	--	--	0.0	502,016	485,754	2.12	2.20	88.9	2.21
July	0	0	--	--	--	0.0	627,873	607,202	2.58	2.67	87.5	2.55
August	0	0	--	--	--	0.0	617,659	597,279	2.41	2.49	88.5	2.43
Sept	0	0	--	--	--	0.0	526,671	510,024	2.29	2.37	89.8	2.34
Year to Date												
2021	0	0	--	--	--	0.0	3,970,177	3,835,804	5.21	5.40	95.5	4.09
2022	0	0	--	--	--	0.0	4,290,371	4,148,049	7.04	7.28	95.7	5.55
2023	0	0	--	--	--	0.0	4,296,791	4,154,920	2.83	2.93	89.5	2.75
Rolling 12 Months Ending in September												
2022	0	0	--	--	--	0.0	5,575,585	5,389,254	6.71	6.94	95.8	5.28
2023	0	0	--	--	--	0.0	5,608,795	5,421,569	3.73	3.86	90.7	3.39

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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.

- Values for 2022 and prior years are final. Values for 2023 are preliminary.

- See Glossary for definitions.

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- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

- See the Technical Notes for fuel conversion factors.

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2013 - September 2023

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												
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	3.12	70.30	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	2.85	63.90	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	2.69	60.89	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	2.78	63.31	2.99	3.9	0	0	--	--	--	0.0
2018	290	13	2.94	66.52	3.04	2.2	0	0	--	--	--	0.0
2019	193	8	2.92	66.55	3.01	1.6	0	0	--	--	--	0.0
2020	132	6	2.96	67.66	2.93	1.2	0	0	--	--	--	0.0
2021	262	11	3.03	69.50	2.94	2.1	0	0	--	--	--	0.0
2022	268	12	4.17	94.87	3.08	2.2	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	5.8	0	0	--	--	--	0.0
February	19	1	3.95	90.65	3.00	1.5	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	10.0	0	0	--	--	--	0.0
October	54	2	4.28	97.11	3.24	5.2	0	0	--	--	--	0.0
November	0	0	--	--	--	0.0	0	0	--	--	--	0.0
December	15	1	4.28	96.94	3.02	1.1	0	0	--	--	--	0.0
Year 2023												
January	21	1	4.28	96.60	3.06	2.2	0	0	--	--	--	0.0
February	22	1	4.28	97.20	3.12	2.4	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
Year to Date												
2021	142	6	2.98	68.35	2.86	1.6	0	0	--	--	--	0.0
2022	199	9	4.13	94.10	3.04	2.3	0	0	--	--	--	0.0
2023	43	2	4.28	96.90	3.09	0.6	0	0	--	--	--	0.0
Rolling 12 Months Ending in September												
2022	320	14	3.73	85.38	3.03	2.7	0	0	--	--	--	0.0
2023	111	5	4.28	97.01	3.15	1.1	0	0	--	--	--	0.0

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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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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2013 - September 2023 (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												
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	8,628	3.42	3.56	7.3	3.41
2022	0	0	--	--	--	0.0	8,636	8,322	3.88	4.02	6.8	3.89
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	6.5	3.35
February	0	0	--	--	--	0.0	711	683	3.32	3.45	6.8	3.33
March	0	0	--	--	--	0.0	712	687	3.30	3.42	6.8	3.30
April	0	0	--	--	--	0.0	786	758	4.35	4.51	8.2	4.35
May	0	0	--	--	--	0.0	886	861	4.13	4.29	7.0	4.13
June	0	0	--	--	--	0.0	628	603	3.89	4.05	6.1	3.89
July	0	0	--	--	--	0.0	693	668	3.86	4.00	5.7	3.86
August	0	0	--	--	--	0.0	732	703	4.86	5.06	5.9	4.86
Sept	0	0	--	--	--	0.0	766	738	4.56	4.73	7.3	4.53
October	0	0	--	--	--	0.0	657	634	3.98	4.12	7.0	4.00
November	0	0	--	--	--	0.0	656	636	3.18	3.28	6.7	3.18
December	0	0	--	--	--	0.0	850	821	3.73	3.86	7.5	3.74
Year 2023												
January	0	0	--	--	--	0.0	707	682	3.11	3.22	6.3	3.14
February	0	0	--	--	--	0.0	707	683	3.01	3.11	6.9	3.05
March	0	0	--	--	--	0.0	680	655	3.05	3.17	6.2	3.05
April	0	0	--	--	--	0.0	720	700	2.89	2.97	7.6	2.89
May	0	0	--	--	--	0.0	748	726	2.84	2.92	7.8	2.84
June	0	0	--	--	--	0.0	617	598	2.89	2.99	5.9	2.89
July	0	0	--	--	--	0.0	629	607	3.07	3.18	5.6	3.07
August	0	0	--	--	--	0.0	670	646	3.09	3.21	5.9	3.09
Sept	0	0	--	--	--	0.0	619	597	3.10	3.21	5.7	3.10
Year to Date												
2021	0	0	--	--	--	0.0	6,470	6,220	3.29	3.43	7.1	3.29
2022	0	0	--	--	--	0.0	6,473	6,231	3.96	4.11	6.6	3.96
2023	0	0	--	--	--	0.0	6,096	5,894	3.00	3.11	6.4	3.01
Rolling 12 Months Ending in September												
2022	0	0	--	--	--	0.0	8,872	8,540	3.91	4.06	7.0	3.90
2023	0	0	--	--	--	0.0	8,259	7,985	3.17	3.28	6.6	3.18

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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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- See Glossary for definitions.

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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, 2013 - September 2023

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
Annual Totals												
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	2.97	64.15	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	2.72	59.17	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	2.67	57.01	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	192,637	9,178	2.49	52.29	1.35	70.7	1,850	297	11.18	69.57	1.42	15.2
2018	170,730	8,224	2.47	51.38	1.30	67.2	2,319	372	13.46	83.97	1.35	15.9
2019	146,324	7,088	2.55	52.69	1.19	65.1	1,684	275	13.19	80.82	1.47	14.5
2020	134,523	6,515	2.49	51.38	1.27	68.9	1,700	277	10.52	64.54	1.20	17.0
2021	141,492	6,781	2.33	48.60	1.33	69.9	2,380	387	12.90	79.39	1.46	21.3
2022	138,708	6,721	2.78	57.30	1.27	70.3	2,475	404	18.35	112.54	1.26	10.5
Year 2021												
January	11,319	541	2.37	49.49	1.14	61.9	226	37	11.25	69.01	1.27	18.1
February	10,689	502	2.41	51.26	1.42	61.9	200	32	11.85	73.29	1.39	13.0
March	10,653	500	2.41	51.35	1.32	62.4	201	33	12.48	75.76	1.50	19.8
April	11,847	562	2.45	51.58	1.20	74.2	236	39	12.63	77.32	1.51	29.9
May	12,884	609	2.23	47.12	1.39	79.5	144	24	12.41	76.01	1.39	18.9
June	12,493	601	2.24	46.46	1.32	77.7	132	22	14.13	86.63	0.82	19.0
July	11,007	539	2.26	46.15	1.26	63.7	206	33	13.90	85.70	1.61	28.1
August	11,462	563	2.28	46.46	1.21	71.1	237	38	12.75	78.57	1.50	27.2
Sept	12,253	593	2.33	48.06	1.35	72.4	210	34	12.67	78.29	1.56	27.2
October	11,454	547	2.48	51.94	1.21	68.3	197	32	12.68	78.52	1.49	20.2
November	13,432	651	2.21	45.64	1.56	75.2	198	32	14.24	87.87	1.46	23.0
December	11,999	575	2.35	49.10	1.55	72.3	192	31	14.41	89.71	1.59	21.0
Year 2022												
January	12,244	593	2.58	53.22	1.35	67.4	301	49	14.12	86.62	1.46	18.3
February	10,697	520	2.65	54.46	1.17	68.2	229	37	15.76	97.63	1.27	16.8
March	12,941	626	2.53	52.28	1.39	74.0	219	36	15.78	97.43	1.06	11.4
April	10,674	504	2.78	58.94	1.37	65.8	112	18	19.33	118.47	1.55	5.7
May	12,282	597	2.49	51.10	1.38	72.5	175	29	19.13	117.32	0.90	10.0
June	11,491	564	2.36	48.06	1.45	72.2	144	23	21.21	129.90	1.07	6.9
July	12,246	595	2.65	54.47	1.30	75.6	156	26	19.35	118.47	1.57	7.5
August	10,874	533	2.67	54.52	1.21	66.4	157	25	20.21	124.53	1.54	11.4
Sept	11,393	556	3.10	63.58	1.06	74.0	202	33	18.30	112.79	1.13	10.7
October	11,143	541	3.52	72.50	0.91	68.4	223	36	17.89	109.96	1.15	11.7
November	10,179	488	3.21	66.97	1.29	65.4	219	36	23.10	140.27	1.11	12.1
December	12,543	605	2.91	60.37	1.36	73.2	337	56	19.51	118.50	1.38	9.1
Year 2023												
January	11,082	548	2.99	60.56	1.21	66.3	336	55	17.76	108.25	1.35	15.8
February	10,894	523	3.79	78.83	1.06	72.3	332	55	17.22	104.12	1.55	20.5
March	10,570	525	3.64	73.24	0.78	71.5	440	73	16.48	99.40	1.62	21.2
April	11,351	563	3.48	70.15	0.97	80.0	300	50	17.07	103.34	1.55	17.7
May	10,576	520	3.41	69.33	1.16	72.2	309	51	15.64	95.51	1.12	23.0
June	10,155	532	2.82	53.77	0.82	76.0	93	15	16.41	103.52	1.09	6.7
July	9,652	499	2.86	55.29	0.73	70.1	141	23	16.54	102.83	1.00	10.9
August	10,109	515	3.10	60.84	0.91	77.7	136	22	17.84	111.00	1.20	9.9
Sept	8,716	431	3.73	75.33	1.07	63.4	154	25	16.85	104.23	1.13	11.8
Year to Date												
2021	104,607	5,009	2.33	48.57	1.29	69.2	1,793	292	12.61	77.47	1.43	21.3
2022	104,843	5,088	2.64	54.39	1.30	70.7	1,696	276	17.57	108.04	1.27	10.5
2023	93,104	4,657	3.31	66.24	0.97	72.0	2,241	367	16.85	102.82	1.33	15.8
Rolling 12 Months Ending in September												
2022	141,727	6,859	2.56	52.92	1.34	71.0	2,283	371	16.59	102.23	1.34	12.1
2023	126,969	6,290	3.28	66.27	1.03	71.2	3,021	495	17.68	107.84	1.34	14.0

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Notes:

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

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

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- 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, 2013 - September 2023 (continued)

Period	Petroleum Coke							Natural Gas					All Fossil Fuels
	Receipts		Average Cost			Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	(Billion Btu)			(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)	
Annual Totals													
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	4.66	4.79	56.5	4.33	
2022	82	3	4.46	124.88	5.99	0.4	835,428	812,863	6.51	6.69	59.1	6.01	
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	76,455	74,275	4.68	4.82	59.9	4.42	
February	0	0	--	--	--	0.0	65,784	63,860	5.74	5.91	59.0	5.34	
March	0	0	--	--	--	0.0	71,461	69,559	4.69	4.82	60.3	4.39	
April	0	0	--	--	--	0.0	67,470	65,714	5.97	6.13	60.8	5.55	
May	0	0	--	--	--	0.0	67,025	65,283	7.68	7.89	58.8	6.90	
June	0	0	--	--	--	0.0	68,964	67,264	8.29	8.50	60.1	7.47	
July	0	0	--	--	--	0.0	72,749	70,916	6.93	7.11	58.8	6.33	
August	0	0	--	--	--	0.0	73,848	72,011	8.69	8.91	59.1	7.94	
Sept	0	0	--	--	--	0.0	66,052	64,306	8.40	8.63	57.9	7.65	
October	82	3	4.46	124.88	5.99	4.6	65,621	63,673	5.82	5.99	57.1	5.52	
November	0	0	--	--	--	0.0	69,498	67,553	5.11	5.26	58.9	4.92	
December	0	0	--	--	--	0.0	70,500	68,450	6.26	6.45	58.4	5.81	
Year 2023													
January	0	0	--	--	--	0.0	69,363	67,415	5.03	5.17	54.8	4.80	
February	0	0	--	--	--	0.0	62,244	60,546	3.23	3.32	55.1	3.37	
March	0	0	--	--	--	0.0	66,976	65,267	2.75	2.82	54.8	2.94	
April	0	0	--	--	--	0.0	60,328	58,682	2.31	2.38	56.5	2.56	
May	0	0	--	--	--	0.0	63,898	62,168	2.37	2.43	56.8	2.57	
June	0	0	--	--	--	0.0	64,518	62,967	2.48	2.54	55.5	2.54	
July	0	0	--	--	--	0.0	64,395	62,551	2.82	2.91	53.3	2.85	
August	0	0	--	--	--	0.0	66,335	64,464	2.80	2.88	54.7	2.86	
Sept	0	0	--	--	--	0.0	64,400	62,573	2.80	2.88	54.5	2.94	
Year to Date													
2021	0	0	--	--	--	0.0	584,331	568,017	4.38	4.51	55.3	4.09	
2022	0	0	--	--	--	0.0	629,808	613,188	6.76	6.95	59.4	6.20	
2023	0	0	--	--	--	0.0	582,457	566,632	2.97	3.06	55.1	3.07	
Rolling 12 Months Ending in September													
2022	0	0	--	--	--	0.0	846,532	824,032	6.41	6.59	59.5	5.89	
2023	82	3	4.46	124.88	5.99	0.5	788,076	766,308	3.69	3.80	55.9	3.68	

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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.

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**Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, September 2023 and 2022
(Thousand Tons)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	Electric Utilities September 2023	Electric Utilities September 2022	Independent Power Producers September 2023	Independent Power Producers September 2022	September 2023	September 2022	September 2023	September 2022
	New England	1	19	-95.0%	0	0	1	19	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	3	-63.0%	0	0	1	3	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	17	-100.0%	0	0	0	17	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	225	966	-77.0%	0	0	225	954	0	0	0	11
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	225	966	-77.0%	0	0	225	954	0	0	0	11
East North Central	7,175	8,888	-19.0%	4,332	5,539	2,729	3,219	0	0	114	130
Illinois	1,965	2,328	-16.0%	233	410	1,618	1,788	0	0	114	130
Indiana	1,914	2,218	-14.0%	1,713	1,991	201	227	0	0	0	0
Michigan	887	1,776	-50.0%	887	1,763	0	13	0	0	0	0
Ohio	1,109	1,440	-23.0%	199	249	910	1,190	0	0	0	0
Wisconsin	1,300	1,126	16.0%	1,300	1,126	0	0	0	0	0	0
West North Central	7,105	8,932	-20.0%	6,914	8,672	0	0	0	5	191	255
Iowa	1,042	1,197	-13.0%	894	1,004	0	0	0	0	158	192
Kansas	1,008	1,291	-22.0%	1,008	1,291	0	0	0	0	0	0
Minnesota	444	901	-51.0%	444	901	0	0	0	0	0	0
Missouri	1,963	2,478	-21.0%	1,963	2,473	0	0	0	5	0	0
Nebraska	958	1,182	-19.0%	925	1,119	0	0	0	0	33	63
North Dakota	1,579	1,735	-9.0%	1,579	1,735	0	0	0	0	0	0
South Dakota	111	150	-26.0%	111	150	0	0	0	0	0	0
South Atlantic	4,302	4,778	-10.0%	4,017	4,118	244	603	0	0	41	57
Delaware	24	12	101.0%	0	0	24	12	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	534	654	-18.0%	524	654	0	0	0	0	10	0
Georgia	975	821	19.0%	967	806	0	0	0	0	8	15
Maryland	119	124	-3.8%	0	0	119	124	0	0	0	0
North Carolina	597	555	7.7%	597	537	0	0	0	0	0	18
South Carolina	475	622	-24.0%	468	603	0	12	0	0	8	8
Virginia	76	109	-30.0%	61	93	0	0	0	0	15	16
West Virginia	1,502	1,881	-20.0%	1,400	1,425	101	456	0	0	0	0
East South Central	3,594	4,377	-18.0%	3,470	4,249	78	87	0	0	46	41
Alabama	1,135	1,166	-2.6%	1,135	1,166	0	0	0	0	0	0
Kentucky	1,965	2,385	-18.0%	1,965	2,385	0	0	0	0	0	0
Mississippi	174	247	-29.0%	96	160	78	87	0	0	0	0
Tennessee	319	580	-45.0%	273	539	0	0	0	0	46	41
West South Central	6,837	7,446	-8.2%	3,438	3,767	3,396	3,671	0	0	3	7
Arkansas	970	1,237	-22.0%	788	1,003	180	227	0	0	3	7
Louisiana	292	543	-46.0%	228	317	64	226	0	0	0	0
Oklahoma	681	690	-1.3%	681	690	0	0	0	0	0	0
Texas	4,894	4,976	-1.7%	1,741	1,758	3,153	3,218	0	0	0	0
Mountain	4,864	5,830	-17.0%	4,229	5,069	635	761	0	0	0	0
Arizona	332	781	-58.0%	332	781	0	0	0	0	0	0
Colorado	1,191	943	26.0%	1,191	943	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	574	615	-6.7%	0	0	574	615	0	0	0	0
Nevada	86	175	-51.0%	67	109	18	66	0	0	0	0
New Mexico	432	637	-32.0%	432	637	0	0	0	0	0	0
Utah	535	811	-34.0%	535	773	0	38	0	0	0	0
Wyoming	1,714	1,868	-8.3%	1,671	1,826	43	43	0	0	0	0
Pacific Contiguous	218	329	-34.0%	0	0	182	274	0	0	36	55
California	36	55	-35.0%	0	0	0	0	0	0	36	55
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	182	274	-33.0%	0	0	182	274	0	0	0	0
Pacific Noncontiguous	35	29	20.0%	35	29	0	0	0	0	0	0
Alaska	35	29	20.0%	35	29	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	34,356	41,593	-17.0%	26,434	31,443	7,491	9,589	0	5	431	556

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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.

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) September 2023 and 2022
(Thousand Tons)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
				Electric Utilities	Independent Power Producers						
New England	95	135	-29.0%	0	0	95	135	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	41	47	-13.0%	0	0	41	47	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	54	88	-38.0%	0	0	54	88	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,736	10,216	-54.0%	0	0	4,658	10,152	0	0	78	64
New Jersey	0	184	-100.0%	0	0	0	184	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	4,736	10,032	-53.0%	0	0	4,658	9,968	0	0	78	64
East North Central	64,841	74,761	-13.0%	39,641	43,244	23,974	30,225	0	0	1,226	1,292
Illinois	17,179	20,833	-18.0%	3,245	2,648	12,708	16,902	0	0	1,226	1,283
Indiana	16,664	18,112	-8.0%	14,944	16,125	1,720	1,987	0	0	0	0
Michigan	10,142	13,925	-27.0%	10,053	13,812	89	104	0	0	0	9
Ohio	11,525	12,718	-9.4%	2,067	1,487	9,457	11,231	0	0	0	0
Wisconsin	9,331	9,172	1.7%	9,331	9,172	0	0	0	0	0	0
West North Central	71,219	75,959	-6.2%	69,205	73,619	0	0	2	9	2,012	2,331
Iowa	9,890	9,552	3.5%	8,328	7,847	0	0	0	0	1,562	1,704
Kansas	9,519	9,905	-3.9%	9,519	9,905	0	0	0	0	0	0
Minnesota	6,213	8,059	-23.0%	6,213	8,059	0	0	0	0	0	0
Missouri	20,902	22,046	-5.2%	20,900	22,037	0	0	2	9	0	0
Nebraska	8,773	9,017	-2.7%	8,324	8,390	0	0	0	0	450	627
North Dakota	15,126	16,216	-6.7%	15,126	16,216	0	0	0	0	0	0
South Dakota	796	1,164	-32.0%	796	1,164	0	0	0	0	0	0
South Atlantic	39,305	40,095	-2.0%	35,416	33,772	3,540	5,851	0	0	349	472
Delaware	72	84	-15.0%	0	0	72	84	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,661	4,902	-4.9%	4,631	4,890	0	0	0	0	30	12
Georgia	7,608	6,433	18.0%	7,514	6,317	0	0	0	0	95	115
Maryland	815	1,444	-44.0%	0	0	815	1,444	0	0	0	0
North Carolina	4,005	4,340	-7.7%	3,927	4,166	0	0	0	0	77	175
South Carolina	5,645	4,740	19.0%	5,527	4,557	88	160	0	0	30	23
Virginia	863	1,438	-40.0%	746	1,291	0	0	0	0	117	147
West Virginia	15,636	16,713	-6.4%	13,070	12,550	2,565	4,163	0	0	0	0
East South Central	36,561	38,807	-5.8%	33,878	35,988	2,244	2,391	0	0	439	428
Alabama	10,300	10,803	-4.7%	10,300	10,803	0	0	0	0	0	0
Kentucky	20,748	20,513	1.1%	20,748	20,513	0	0	0	0	0	0
Mississippi	3,018	3,754	-20.0%	773	1,362	2,244	2,391	0	0	0	0
Tennessee	2,495	3,738	-33.0%	2,056	3,309	0	0	0	0	439	428
West South Central	57,949	61,446	-5.7%	28,531	30,265	29,248	31,084	0	0	170	97
Arkansas	8,167	9,412	-13.0%	6,606	7,530	1,521	1,833	0	0	41	49
Louisiana	4,164	4,215	-1.2%	2,142	2,521	2,022	1,694	0	0	0	0
Oklahoma	4,421	4,503	-1.8%	4,293	4,456	0	0	0	0	129	48
Texas	41,196	43,316	-4.9%	15,491	15,759	25,705	27,557	0	0	0	0
Mountain	44,362	48,917	-9.3%	38,259	42,524	6,102	6,393	0	0	0	0
Arizona	6,162	5,927	4.0%	6,162	5,927	0	0	0	0	0	0
Colorado	9,619	8,352	15.0%	9,619	8,352	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4,968	5,155	-3.6%	0	0	4,968	5,155	0	0	0	0
Nevada	1,040	1,301	-20.0%	534	780	507	521	0	0	0	0
New Mexico	3,006	5,919	-49.0%	3,006	5,919	0	0	0	0	0	0
Utah	5,760	8,093	-29.0%	5,502	7,770	257	323	0	0	0	0
Wyoming	13,807	14,170	-2.6%	13,436	13,776	370	394	0	0	0	0
Pacific Contiguous	2,279	2,243	1.6%	0	0	1,896	1,840	0	0	383	403
California	383	403	-4.9%	0	0	0	0	0	0	383	403
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1,896	1,840	3.0%	0	0	1,896	1,840	0	0	0	0
Pacific Noncontiguous	288	524	-45.0%	288	268	0	256	0	0	0	0
Alaska	288	268	7.5%	288	268	0	0	0	0	0	0
Hawaii	0	256	-100.0%	0	0	0	256	0	0	0	0
U.S. Total	321,635	353,104	-8.9%	245,218	259,680	71,758	88,328	2	9	4,657	5,088

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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, September 2023 and 2022
(Thousand Barrels)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	Electric Utilities September 2023	September 2022	Independent Power Producers September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	New England	4	83	-95.0%	0	1	4	82	0	0	0
Connecticut	0	26	-99.0%	0	0	0	26	0	0	0	0
Maine	4	54	-92.0%	0	0	4	54	0	0	0	0
Massachusetts	0	1	-100.0%	0	1	0	0	0	0	0	0
New Hampshire	0	0	-100.0%	0	0	0	0	0	0	0	0
Rhode Island	0	2	-100.0%	0	0	0	2	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	161	123	31.0%	129	87	25	30	0	0	7	6
New Jersey	0	1	-100.0%	0	0	0	1	0	0	0	0
New York	131	107	23.0%	129	87	2	20	0	0	0	0
Pennsylvania	29	15	101.0%	0	0	23	9	0	0	6	6
East North Central	55	40	38.0%	25	24	24	7	0	0	6	9
Illinois	5	3	54.0%	1	0	4	3	0	0	0	0
Indiana	17	9	87.0%	17	9	0	0	0	0	0	0
Michigan	8	13	-40.0%	6	8	0	0	0	0	2	5
Ohio	25	9	170.0%	1	1	20	4	0	0	4	4
Wisconsin	0	5	-100.0%	0	5	0	0	0	0	0	0
West North Central	38	47	-19.0%	38	46	0	1	0	0	0	0
Iowa	12	6	79.0%	12	6	0	0	0	0	0	0
Kansas	3	7	-59.0%	3	7	0	0	0	0	0	0
Minnesota	0	13	-100.0%	0	12	0	1	0	0	0	0
Missouri	17	17	-0.1%	17	17	0	0	0	0	0	0
Nebraska	0	1	-100.0%	0	1	0	0	0	0	0	0
North Dakota	4	2	129.0%	4	2	0	0	0	0	0	0
South Dakota	2	0	NM	2	0	0	0	0	0	0	0
South Atlantic	102	179	-43.0%	55	136	35	26	0	0	12	17
Delaware	1	0	--	0	0	1	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	25	36	-31.0%	23	34	0	0	0	0	2	1
Georgia	8	30	-72.0%	3	21	0	2	0	0	6	8
Maryland	31	17	80.0%	0	0	31	17	0	0	0	0
North Carolina	3	9	-71.0%	3	4	0	0	0	0	0	5
South Carolina	7	11	-41.0%	7	10	0	1	0	0	0	1
Virginia	10	52	-81.0%	1	42	3	7	0	0	5	3
West Virginia	19	24	-22.0%	19	24	0	0	0	0	0	0
East South Central	12	20	-39.0%	12	19	0	0	0	0	0	1
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	9	10	-5.3%	9	10	0	0	0	0	0	0
Mississippi	0	2	-85.0%	0	2	0	0	0	0	0	0
Tennessee	3	8	-66.0%	2	7	0	0	0	0	0	1
West South Central	14	32	-56.0%	8	12	7	21	0	0	0	0
Arkansas	8	7	13.0%	6	3	2	4	0	0	0	0
Louisiana	0	1	-100.0%	0	1	0	0	0	0	0	0
Oklahoma	0	6	-100.0%	0	6	0	0	0	0	0	0
Texas	6	18	-66.0%	2	1	4	17	0	0	0	0
Mountain	8	13	-35.0%	7	13	1	0	0	0	0	0
Arizona	0	2	-100.0%	0	2	0	0	0	0	0	0
Colorado	0	2	-100.0%	0	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	--	0	0	1	0	0	0	0	0
Nevada	2	1	38.0%	1	1	0	0	0	0	0	0
New Mexico	0	1	-100.0%	0	1	0	0	0	0	0	0
Utah	0	1	-75.0%	0	1	0	0	0	0	0	0
Wyoming	6	6	-5.0%	6	6	0	0	0	0	0	0
Pacific Contiguous	1	2	-51.0%	0	0	1	2	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	2	-51.0%	0	0	1	2	0	0	0	0
Pacific Noncontiguous	835	818	2.1%	659	629	176	189	0	0	0	0
Alaska	1	2	-30.0%	1	2	0	0	0	0	0	0
Hawaii	833	816	2.2%	657	627	176	189	0	0	0	0
U.S. Total	1,231	1,356	-9.2%	933	966	274	358	0	0	25	33

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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) September 2023 and 2022
(Thousand Barrels)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	Electric Utilities September 2023 YTD	September 2022 YTD	Independent Power Producers September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
	New England	536	1,253	-57.0%	0	6	536	1,246	0	0	0
Connecticut	26	331	-92.0%	0	0	26	331	0	0	0	0
Maine	186	263	-29.0%	0	0	186	263	0	0	0	0
Massachusetts	209	269	-22.0%	0	6	209	262	0	0	0	0
New Hampshire	66	366	-82.0%	0	0	66	366	0	0	0	0
Rhode Island	48	24	101.0%	0	0	48	24	0	0	0	0
Vermont	0	0	-	0	0	0	0	0	0	0	0
Middle Atlantic	1,091	1,419	-23.0%	560	436	482	936	0	0	48	48
New Jersey	12	22	-43.0%	0	0	12	22	0	0	0	0
New York	839	1,162	-28.0%	560	436	278	726	0	0	0	0
Pennsylvania	239	236	1.4%	0	0	191	188	0	0	48	48
East North Central	579	505	15.0%	393	313	144	167	0	0	42	25
Illinois	32	44	-27.0%	4	1	28	43	0	0	0	0
Indiana	143	151	-5.3%	143	151	0	0	0	0	0	0
Michigan	198	131	51.0%	177	117	0	0	0	0	21	14
Ohio	193	148	31.0%	57	14	116	124	0	0	21	10
Wisconsin	12	31	-60.0%	12	31	0	0	0	0	0	0
West North Central	432	578	-25.0%	432	575	0	3	0	0	0	0
Iowa	80	112	-28.0%	80	112	0	0	0	0	0	0
Kansas	66	155	-57.0%	66	155	0	0	0	0	0	0
Minnesota	0	44	-100.0%	0	41	0	3	0	0	0	0
Missouri	195	205	-5.1%	195	205	0	0	0	0	0	0
Nebraska	5	23	-77.0%	5	23	0	0	0	0	0	0
North Dakota	75	38	98.0%	75	38	0	0	0	0	0	0
South Dakota	11	2	582.0%	11	2	0	0	0	0	0	0
South Atlantic	1,911	1,937	-1.3%	1,288	1,457	350	287	0	0	272	193
Delaware	8	16	-47.0%	0	0	8	16	0	0	0	0
District of Columbia	0	0	-	0	0	0	0	0	0	0	0
Florida	591	581	1.7%	517	563	55	1	0	0	19	17
Georgia	254	309	-18.0%	137	212	0	16	0	0	116	81
Maryland	177	99	79.0%	0	0	177	99	0	0	0	0
North Carolina	246	168	47.0%	163	128	0	0	0	0	82	39
South Carolina	144	176	-18.0%	108	132	12	24	0	0	24	20
Virginia	250	414	-40.0%	147	247	73	131	0	0	30	36
West Virginia	241	175	38.0%	216	174	25	1	0	0	0	0
East South Central	439	361	22.0%	434	350	0	0	0	0	4	11
Alabama	39	36	9.3%	39	36	0	0	0	0	0	0
Kentucky	129	95	35.0%	129	95	0	0	0	0	0	0
Mississippi	5	9	-45.0%	5	9	0	0	0	0	0	0
Tennessee	266	221	20.0%	262	211	0	0	0	0	4	11
West South Central	155	410	-62.0%	100	143	55	267	0	0	0	0
Arkansas	58	64	-10.0%	42	44	16	20	0	0	0	0
Louisiana	3	19	-87.0%	3	19	0	0	0	0	0	0
Oklahoma	19	42	-55.0%	19	42	0	0	0	0	0	0
Texas	75	284	-73.0%	36	36	39	247	0	0	0	0
Mountain	171	197	-13.0%	156	187	15	10	0	0	0	0
Arizona	32	48	-35.0%	32	48	0	0	0	0	0	0
Colorado	15	7	107.0%	15	7	0	0	0	0	0	0
Idaho	0	0	-	0	0	0	0	0	0	0	0
Montana	9	6	33.0%	0	0	9	6	0	0	0	0
Nevada	11	14	-19.0%	9	11	2	2	0	0	0	0
New Mexico	0	20	-100.0%	0	20	0	0	0	0	0	0
Utah	37	34	11.0%	33	32	4	2	0	0	0	0
Wyoming	68	68	-0.6%	68	68	0	0	0	0	0	0
Pacific Contiguous	39	13	192.0%	32	0	7	13	0	0	0	0
California	0	0	-	0	0	0	0	0	0	0	0
Oregon	0	0	-	0	0	0	0	0	0	0	0
Washington	39	13	192.0%	32	0	7	13	0	0	0	0
Pacific Noncontiguous	7,090	6,806	4.2%	5,695	5,481	1,395	1,325	0	0	0	0
Alaska	14	20	-27.0%	14	20	0	0	0	0	0	0
Hawaii	7,076	6,787	4.3%	5,681	5,462	1,395	1,325	0	0	0	0
U.S. Total	12,442	13,479	-7.7%	9,090	8,948	2,984	4,255	0	0	367	276

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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, September 2023 and 2022 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	Electric Utilities September 2023	September 2022	Independent Power Producers September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	New England	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	77	85	-8.8%	77	85	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	76	79	-3.3%	76	79	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	1	6	-80.0%	1	6	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	41	0	--	41	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	41	0	--	41	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	49	-100.0%	0	49	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	49	-100.0%	0	49	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	118	134	-12.0%	118	134	0	0	0	0	0	0

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

Notes:
 See Glossary for definitions. Values for 2022 are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Petroleum Coke includes petroleum coke-derived synthesis gas.
 See the Technical Notes for fuel conversion factors.

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

**Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) September 2023 and 2022
(Thousand Tons)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	Electric Utilities September 2023 YTD	September 2022 YTD	Independent Power Producers September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
	New England	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	459	514	-11.0%	459	514	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	442	457	-3.3%	442	457	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	17	57	-71.0%	17	57	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	337	243	39.0%	337	243	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	337	243	39.0%	337	243	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	7	-100.0%	0	7	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	7	-100.0%	0	7	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	295	959	-69.0%	295	959	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	295	959	-69.0%	295	959	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	1,091	1,724	-37.0%	1,091	1,724	0	0	0	0	0	0

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

See Glossary for definitions. Values for 2022 are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Petroleum Coke includes petroleum coke-derived synthesis gas.

See the Technical Notes for fuel conversion factors.

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

Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, September 2023 and 2022
(Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Power Producers				Commercial Sector		Industrial Sector	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	30,381	33,240	-8.6%	0	20	30,381	33,220	0	0	0	0
Connecticut	13,594	14,941	-9.0%	0	0	13,594	14,941	0	0	0	0
Maine	1,455	3,463	-58.0%	0	0	1,455	3,463	0	0	0	0
Massachusetts	7,842	7,422	5.7%	0	20	7,842	7,402	0	0	0	0
New Hampshire	3,156	3,007	5.0%	0	0	3,156	3,007	0	0	0	0
Rhode Island	4,334	4,407	-1.7%	0	0	4,334	4,407	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	140,894	132,437	6.4%	8,352	5,973	130,560	124,374	0	0	1,982	2,090
New Jersey	19,025	22,141	-14.0%	0	0	19,025	22,141	0	0	0	0
New York	38,596	33,284	16.0%	8,352	5,973	29,691	26,771	0	0	553	540
Pennsylvania	83,273	77,012	8.1%	0	0	81,844	75,462	0	0	1,429	1,550
East North Central	118,325	111,762	5.9%	37,665	36,807	79,132	73,033	406	562	1,122	1,359
Illinois	13,477	16,166	-17.0%	1,490	1,789	11,979	14,019	0	0	8	358
Indiana	16,603	15,667	6.0%	6,832	7,374	9,772	8,292	0	0	0	0
Michigan	32,664	26,608	23.0%	12,615	10,577	19,224	15,101	406	562	419	369
Ohio	43,335	40,761	6.3%	5,103	5,193	37,771	35,142	0	0	462	425
Wisconsin	12,246	12,560	-2.5%	11,625	11,873	387	479	0	0	234	208
West North Central	17,096	23,928	-29.0%	14,129	20,508	2,410	3,049	191	176	366	195
Iowa	5,739	6,526	-12.0%	5,372	6,331	0	0	0	0	366	195
Kansas	2,722	1,580	72.0%	2,722	1,580	0	0	0	0	0	0
Minnesota	2,448	5,785	-58.0%	2,018	3,846	428	1,939	2	1	0	0
Missouri	5,395	6,407	-16.0%	3,225	5,121	1,982	1,110	189	175	0	0
Nebraska	208	1,425	-85.0%	208	1,425	0	0	0	0	0	0
North Dakota	357	1,279	-72.0%	357	1,279	0	0	0	0	0	0
South Dakota	227	926	-75.0%	227	926	0	0	0	0	0	0
South Atlantic	254,367	274,375	-7.3%	215,191	224,267	36,344	47,085	0	0	2,833	3,024
Delaware	1,744	2,119	-18.0%	0	0	1,744	2,119	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	124,484	127,802	-2.6%	119,869	119,324	4,251	8,162	0	0	364	316
Georgia	34,795	42,652	-18.0%	28,435	32,246	5,589	9,605	0	0	771	802
Maryland	8,343	9,635	-13.0%	1,543	2,779	6,801	6,856	0	0	0	0
North Carolina	34,205	39,872	-14.0%	29,419	32,582	4,786	7,044	0	0	0	246
South Carolina	16,120	17,952	-10.0%	15,489	16,188	466	1,690	0	0	165	74
Virginia	32,313	32,569	-0.8%	20,309	20,936	11,114	10,680	0	0	890	953
West Virginia	2,364	1,774	33.0%	126	212	1,594	929	0	0	644	633
East South Central	87,934	89,500	-1.7%	65,503	66,027	20,395	21,092	0	0	2,035	2,380
Alabama	33,615	38,380	-12.0%	13,649	17,678	19,965	20,702	0	0	0	0
Kentucky	8,258	9,226	-10.0%	7,830	8,842	428	384	0	0	0	0
Mississippi	35,170	30,670	15.0%	35,168	30,663	2	7	0	0	0	0
Tennessee	10,891	11,224	-3.0%	8,856	8,843	0	0	0	0	2,035	2,380
West South Central	306,235	304,800	0.5%	99,120	103,523	155,149	147,638	0	0	51,966	53,639
Arkansas	13,409	18,178	-26.0%	12,035	16,900	1,178	1,143	0	0	196	135
Louisiana	48,566	45,925	5.8%	28,676	25,213	3,431	2,574	0	0	16,459	18,138
Oklahoma	30,030	27,629	8.7%	18,744	17,529	10,843	9,454	0	0	442	646
Texas	214,229	213,067	0.5%	39,665	43,880	139,696	134,467	0	0	34,868	34,720
Mountain	80,738	82,422	-2.0%	63,789	66,016	16,903	16,406	0	0	47	0
Arizona	38,801	36,136	7.4%	25,999	24,950	12,801	11,186	0	0	0	0
Colorado	9,378	10,620	-12.0%	7,790	8,581	1,587	2,039	0	0	0	0
Idaho	1,118	2,726	-59.0%	1,118	1,696	0	1,030	0	0	0	0
Montana	299	411	-27.0%	299	409	0	2	0	0	409	0
Nevada	13,758	17,098	-20.0%	13,758	17,098	0	0	0	0	0	0
New Mexico	8,890	7,713	15.0%	6,376	5,565	2,514	2,148	0	0	0	0
Utah	7,646	6,815	12.0%	7,600	6,815	0	0	0	0	47	0
Wyoming	849	902	-5.9%	848	902	1	0	0	0	0	0
Pacific Contiguous	66,105	91,941	-28.0%	25,132	36,736	38,751	53,586	0	0	2,222	1,619
California	47,031	65,821	-29.0%	15,471	21,647	29,337	42,555	0	0	2,222	1,619
Oregon	11,409	14,505	-21.0%	4,381	7,663	7,028	6,842	0	0	0	0
Washington	7,665	11,615	-34.0%	5,279	7,426	2,386	4,189	0	0	0	0
Pacific Noncontiguous	11	1,089	-99.0%	11	1,089	0	0	0	0	0	0
Alaska	11	1,089	-99.0%	11	1,089	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,102,086	1,145,493	-3.8%	528,891	560,966	510,024	519,483	597	738	62,573	64,306

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

See Glossary for definitions. Values for 2022 are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923. Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

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

**Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) September 2023 and 2022
(Million Cubic Feet)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	258,350	299,542	-14.0%	39	716	258,311	298,826	0	0	0	0
Connecticut	121,270	121,025	0.2%	0	0	121,270	121,025	0	0	0	0
Maine	11,562	21,668	-47.0%	0	0	11,562	21,668	0	0	0	0
Massachusetts	71,829	91,203	-21.0%	39	716	71,790	90,487	0	0	0	0
New Hampshire	24,900	27,073	-8.0%	0	0	24,900	27,073	0	0	0	0
Rhode Island	28,789	38,572	-25.0%	0	0	28,789	38,572	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,201,790	1,194,205	0.6%	78,760	75,988	1,104,540	1,100,720	0	0	18,490	17,497
New Jersey	166,336	192,676	-14.0%	0	0	166,336	192,676	0	0	0	0
New York	314,784	338,537	-7.0%	78,760	75,988	230,939	257,312	0	0	5,085	5,237
Pennsylvania	720,670	662,993	8.7%	0	0	707,265	650,732	0	0	13,405	12,260
East North Central	1,030,648	992,900	3.8%	364,032	364,957	651,700	606,700	4,154	4,548	10,761	16,695
Illinois	114,379	106,550	7.3%	12,935	13,069	101,400	88,389	0	0	44	5,092
Indiana	170,564	163,218	4.5%	84,864	77,145	85,699	86,072	0	0	0	0
Michigan	279,176	223,300	25.0%	108,751	90,463	162,343	123,785	4,154	4,548	3,929	4,503
Ohio	345,971	362,779	-4.6%	43,095	55,232	298,632	302,953	0	0	4,244	4,595
Wisconsin	120,558	137,053	-12.0%	114,387	129,048	3,626	5,500	0	0	2,545	2,505
West North Central	149,164	190,757	-22.0%	124,030	160,658	19,290	25,716	1,740	1,683	4,104	2,700
Iowa	48,805	46,547	4.9%	44,701	43,847	0	0	0	0	4,104	2,700
Kansas	22,470	16,243	38.0%	22,470	16,243	0	0	0	0	0	0
Minnesota	28,965	46,071	-37.0%	23,900	30,867	5,053	15,192	12	12	0	0
Missouri	40,627	53,910	-25.0%	24,662	41,714	14,237	10,524	1,728	1,672	0	0
Nebraska	2,816	10,767	-74.0%	2,816	10,767	0	0	0	0	0	0
North Dakota	2,295	10,546	-78.0%	2,295	10,546	0	0	0	0	0	0
South Dakota	3,186	6,674	-52.0%	3,186	6,674	0	0	0	0	0	0
South Atlantic	2,172,810	2,290,762	-5.1%	1,836,822	1,904,942	309,536	359,591	0	0	26,452	26,229
Delaware	18,754	22,271	-16.0%	0	0	18,754	22,271	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,033,991	1,059,974	-2.5%	992,210	1,000,080	38,765	56,678	0	0	3,015	3,217
Georgia	298,872	347,356	-14.0%	241,687	262,738	49,884	77,272	0	0	7,301	7,346
Maryland	79,686	75,887	5.0%	23,472	21,741	56,214	54,146	0	0	0	0
North Carolina	303,831	354,228	-14.0%	261,266	296,251	41,481	55,510	0	0	1,084	2,467
South Carolina	142,324	147,108	-3.3%	138,023	136,001	2,604	10,295	0	0	1,697	812
Virginia	272,069	267,980	1.5%	176,160	184,590	87,309	74,640	0	0	8,600	8,749
West Virginia	23,284	15,958	46.0%	4,005	3,541	14,525	8,780	0	0	4,754	3,637
East South Central	780,695	855,961	-8.8%	566,669	635,585	195,395	199,249	0	0	18,631	21,127
Alabama	306,960	330,925	-7.2%	115,164	138,453	191,795	192,472	0	0	0	0
Kentucky	73,997	104,776	-29.0%	70,508	98,132	3,489	6,644	0	0	0	0
Mississippi	304,173	300,757	1.1%	304,062	300,624	111	133	0	0	0	0
Tennessee	95,565	119,503	-20.0%	76,935	98,376	0	0	0	0	18,631	21,127
West South Central	2,464,861	2,518,736	-2.1%	822,185	881,947	1,173,630	1,127,961	0	0	469,047	508,828
Arkansas	119,048	141,020	-16.0%	108,374	128,638	8,781	9,917	0	0	1,893	2,465
Louisiana	425,573	446,858	-4.8%	243,741	261,695	33,406	23,657	0	0	148,426	161,506
Oklahoma	250,530	221,048	13.0%	164,655	148,866	80,802	67,279	0	0	5,073	4,904
Texas	1,669,711	1,709,810	-2.3%	305,415	342,748	1,050,641	1,027,108	0	0	313,655	339,953
Mountain	666,899	605,312	10.0%	551,644	492,211	115,165	113,101	0	0	90	0
Arizona	289,802	253,941	14.0%	210,656	178,208	79,146	75,733	0	0	0	0
Colorado	95,898	89,629	7.0%	80,847	77,297	15,050	12,331	0	0	0	0
Idaho	7,959	17,663	-55.0%	7,959	10,745	0	6,918	0	0	0	0
Montana	4,137	2,308	79.0%	4,137	2,288	0	20	0	0	0	0
Nevada	124,935	126,631	-1.3%	124,935	126,631	0	0	0	0	0	0
New Mexico	76,742	56,303	36.0%	55,779	38,207	20,963	18,096	0	0	0	0
Utah	58,292	52,337	11.0%	58,203	52,337	0	0	0	0	90	0
Wyoming	9,135	6,500	41.0%	9,129	6,497	6	3	0	0	0	0
Pacific Contiguous	540,735	551,326	-1.9%	194,324	215,029	327,352	316,185	0	0	19,058	20,112
California	401,869	405,806	-1.0%	124,252	129,868	258,559	255,826	0	0	19,058	20,112
Oregon	85,214	90,046	-5.4%	34,769	48,410	50,445	41,636	0	0	0	0
Washington	53,652	55,474	-3.3%	35,304	36,752	18,348	18,722	0	0	0	0
Pacific Noncontiguous	63	10,916	-99.0%	63	10,916	0	0	0	0	0	0
Alaska	63	10,916	-99.0%	63	10,916	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	9,266,015	9,510,416	-2.6%	4,538,568	4,742,948	4,154,920	4,148,049	5,894	6,231	566,632	613,188

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:

See Glossary for definitions. Values for 2022 are final. Values for 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923. Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

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

Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, September 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022
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	2.64	3.12	-15.0%	--	--	2.64	3.12
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	2.64	3.12	-15.0%	--	--	2.64	3.12
East North Central	2.56	2.38	7.6%	2.73	2.72	2.31	1.81
Illinois	W	1.86	W	2.22	2.05	W	1.81
Indiana	W	W	W	3.07	2.88	W	W
Michigan	2.61	W	W	2.61	2.52	--	W
Ohio	2.79	W	W	2.75	4.11	2.80	W
Wisconsin	2.33	2.48	-6.0%	2.33	2.48	--	--
West North Central	1.82	1.89	-3.7%	1.82	1.89	--	--
Iowa	1.69	1.91	-12.0%	1.69	1.91	--	--
Kansas	1.68	1.85	-9.2%	1.68	1.85	--	--
Minnesota	2.34	2.41	-2.9%	2.34	2.41	--	--
Missouri	1.91	1.92	-0.5%	1.91	1.92	--	--
Nebraska	1.26	1.33	-5.3%	1.26	1.33	--	--
North Dakota	2.06	1.97	4.6%	2.06	1.97	--	--
South Dakota	2.19	1.98	11.0%	2.19	1.98	--	--
South Atlantic	3.60	3.42	5.3%	3.62	3.51	3.41	2.81
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	3.50	4.37	-20.0%	3.50	4.37	--	--
Georgia	4.28	4.64	-7.8%	4.28	4.64	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	4.73	4.08	16.0%	4.73	4.08	--	--
South Carolina	3.15	W	W	3.15	3.37	--	W
Virginia	6.05	4.79	26.0%	6.05	4.79	--	--
West Virginia	W	2.22	W	2.87	2.40	W	1.62
East South Central	W	W	W	2.75	3.06	W	W
Alabama	3.00	3.10	-3.2%	3.00	3.10	--	--
Kentucky	2.49	2.99	-17.0%	2.49	2.99	--	--
Mississippi	W	W	W	3.48	3.77	W	W
Tennessee	3.62	3.18	14.0%	3.62	3.18	--	--
West South Central	2.12	2.32	-8.6%	2.18	2.56	2.07	2.06
Arkansas	W	W	W	2.13	2.40	W	W
Louisiana	W	W	W	3.04	2.82	W	W
Oklahoma	2.23	2.73	-18.0%	2.23	2.73	--	--
Texas	W	W	W	2.05	2.53	W	W
Mountain	W	2.13	W	2.44	2.17	W	1.82
Arizona	3.22	2.92	10.0%	3.22	2.92	--	--
Colorado	2.29	1.85	24.0%	2.29	1.85	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	6.57	3.19	W	W
New Mexico	3.63	3.07	18.0%	3.63	3.07	--	--
Utah	2.45	2.17	13.0%	2.45	2.17	--	--
Wyoming	W	W	W	1.88	1.60	W	W
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	4.62	3.74	24.0%	4.62	3.74	--	--
Alaska	4.62	3.74	24.0%	4.62	3.74	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.52	2.50	0.8%	2.59	2.60	2.25	2.16

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Notes:

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

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

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) September 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022
	YTD	YTD		YTD	YTD	YTD	YTD
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	W	W	W	--	--	W	W
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.63	3.12	-16.0%	--	--	2.63	3.12
New Jersey	--	W	W	--	--	--	W
New York	--	--	--	--	--	--	--
Pennsylvania	2.63	W	W	--	--	2.63	W
East North Central	2.53	2.24	13.0%	2.68	2.53	2.28	1.82
Illinois	W	1.90	W	2.05	1.97	W	1.89
Indiana	W	W	W	3.00	2.75	W	W
Michigan	W	W	W	2.54	2.35	W	W
Ohio	2.59	W	W	2.60	2.94	2.59	W
Wisconsin	2.47	2.42	2.1%	2.47	2.42	--	--
West North Central	1.83	1.83	0.0%	1.83	1.83	--	--
Iowa	1.79	1.82	-1.6%	1.79	1.82	--	--
Kansas	1.71	1.89	-9.5%	1.71	1.89	--	--
Minnesota	2.39	2.31	3.5%	2.39	2.31	--	--
Missouri	1.91	1.91	0.0%	1.91	1.91	--	--
Nebraska	1.31	1.29	1.6%	1.31	1.29	--	--
North Dakota	1.87	1.65	13.0%	1.87	1.65	--	--
South Dakota	2.24	2.08	7.7%	2.24	2.08	--	--
South Atlantic	3.58	2.99	20.0%	3.66	3.04	2.80	2.71
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	3.37	3.72	-9.4%	3.37	3.72	--	--
Georgia	4.56	3.61	26.0%	4.56	3.61	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	4.60	3.42	35.0%	4.60	3.42	--	--
South Carolina	W	W	W	3.68	3.42	W	W
Virginia	5.24	3.10	69.0%	5.24	3.10	--	--
West Virginia	W	2.15	W	2.98	2.31	W	1.65
East South Central	W	W	W	2.75	2.48	W	W
Alabama	3.04	2.70	13.0%	3.04	2.70	--	--
Kentucky	2.53	2.30	10.0%	2.53	2.30	--	--
Mississippi	W	W	W	4.24	3.67	W	W
Tennessee	3.41	2.65	29.0%	3.41	2.65	--	--
West South Central	2.17	2.20	-1.4%	2.20	2.40	2.13	2.00
Arkansas	W	W	W	2.17	2.31	W	W
Louisiana	W	W	W	2.94	2.59	W	W
Oklahoma	2.23	2.57	-13.0%	2.23	2.57	--	--
Texas	W	W	W	2.09	2.35	W	W
Mountain	W	2.08	W	2.38	2.11	W	1.81
Arizona	3.06	2.86	7.0%	3.06	2.86	--	--
Colorado	2.06	1.77	18.0%	2.06	1.77	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	5.21	3.28	W	W
New Mexico	3.57	2.65	35.0%	3.57	2.65	--	--
Utah	2.49	2.15	16.0%	2.49	2.15	--	--
Wyoming	W	W	W	1.82	1.65	W	W
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	4.62	W	W	4.62	3.85	--	W
Alaska	4.62	3.85	20.0%	4.62	3.85	--	--
Hawaii	--	W	W	--	--	--	W
U.S. Total	2.51	2.31	8.7%	2.57	2.35	2.29	2.16

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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.

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, September 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022
New England	W	9.91	W	--	14.35	W	9.88
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	14.35	--	W
New Hampshire	--	W	W	--	--	--	W
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	18.24	W	26.14	17.34	W	26.22
New Jersey	--	W	W	--	--	--	W
New York	W	W	W	26.14	17.34	W	W
Pennsylvania	W	W	W	--	--	W	W
East North Central	W	26.31	W	23.41	26.08	W	27.07
Illinois	26.27	W	W	23.21	--	26.64	W
Indiana	23.86	25.62	-6.9%	23.86	25.62	--	--
Michigan	22.03	27.96	-21.0%	22.03	27.96	--	--
Ohio	W	W	W	24.87	30.76	W	W
Wisconsin	--	22.88	--	--	22.88	--	--
West North Central	25.01	W	W	25.01	26.18	--	W
Iowa	24.93	28.07	-11.0%	24.93	28.07	--	--
Kansas	25.35	26.21	-3.3%	25.35	26.21	--	--
Minnesota	--	W	W	--	24.79	--	W
Missouri	24.45	26.61	-8.1%	24.45	26.61	--	--
Nebraska	--	23.58	--	--	23.58	--	--
North Dakota	26.26	27.05	-2.9%	26.26	27.05	--	--
South Dakota	26.93	21.20	27.0%	26.93	21.20	--	--
South Atlantic	23.48	24.83	-5.4%	23.95	24.50	22.75	26.67
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	24.54	26.44	-7.2%	24.54	26.44	--	--
Georgia	27.20	26.80	1.5%	27.20	26.80	--	--
Maryland	W	26.39	W	--	--	W	26.39
North Carolina	24.78	25.59	-3.2%	24.78	25.59	--	--
South Carolina	24.24	W	W	24.24	25.95	--	W
Virginia	W	W	W	19.62	21.71	W	W
West Virginia	22.88	23.92	-4.3%	22.88	23.92	--	--
East South Central	23.96	24.93	-3.9%	23.96	24.93	--	--
Alabama	--	26.84	--	--	26.84	--	--
Kentucky	23.93	25.15	-4.9%	23.93	25.15	--	--
Mississippi	24.89	24.32	2.3%	24.89	24.32	--	--
Tennessee	23.96	24.76	-3.2%	23.96	24.76	--	--
West South Central	W	25.77	W	24.07	26.66	W	25.24
Arkansas	W	W	W	24.18	24.63	W	W
Louisiana	--	28.30	--	--	28.30	--	--
Oklahoma	--	27.62	--	--	27.62	--	--
Texas	W	W	W	23.67	25.62	W	W
Mountain	W	29.08	W	26.94	29.08	W	--
Arizona	--	30.73	--	--	30.73	--	--
Colorado	--	28.05	--	--	28.05	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	W	28.40	W	23.25	28.40	W	--
New Mexico	--	30.31	--	--	30.31	--	--
Utah	34.59	29.89	16.0%	34.59	29.89	--	--
Wyoming	27.53	28.87	-4.6%	27.53	28.87	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	21.70	25.72	W	W
Alaska	33.25	29.00	15.0%	33.25	29.00	--	--
Hawaii	W	W	W	21.67	25.71	W	W
U.S. Total	22.72	24.49	-7.2%	22.71	24.83	22.77	23.44

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 See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Petroleum Liquids includes distillate and residual fuel oils.
 See the Technical Notes for fuel conversion factors.

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

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) September 2023 and 2022 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	W	W	W	--	24.79	W	W
Connecticut	W	43.82	W	--	--	W	43.82
Maine	W	W	W	--	--	W	W
Massachusetts	W	22.39	W	--	24.79	W	22.00
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	18.08	20.26	-11.0%	17.48	19.65	19.18	20.64
New Jersey	W	26.31	W	--	--	W	26.31
New York	17.81	18.85	-5.5%	17.48	19.65	18.62	18.16
Pennsylvania	W	27.83	W	--	--	W	27.83
East North Central	20.22	26.54	-24.0%	19.69	26.22	21.68	27.14
Illinois	23.45	27.51	-15.0%	22.12	21.25	23.66	27.69
Indiana	21.36	26.83	-20.0%	21.36	26.83	--	--
Michigan	17.11	26.04	-34.0%	17.11	26.04	--	--
Ohio	21.95	27.12	-19.0%	23.50	28.69	21.19	26.95
Wisconsin	19.88	23.04	-14.0%	19.88	23.04	--	--
West North Central	21.92	W	W	21.92	25.24	--	W
Iowa	22.02	25.94	-15.0%	22.02	25.94	--	--
Kansas	21.35	24.85	-14.0%	21.35	24.85	--	--
Minnesota	--	W	W	--	25.12	--	W
Missouri	22.15	25.82	-14.0%	22.15	25.82	--	--
Nebraska	20.64	22.92	-9.9%	20.64	22.92	--	--
North Dakota	21.51	23.41	-8.1%	21.51	23.41	--	--
South Dakota	23.95	20.26	18.0%	23.95	20.26	--	--
South Atlantic	22.14	25.81	-14.0%	21.76	25.66	23.67	26.63
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	21.25	26.18	W	W
Georgia	24.41	28.28	-14.0%	24.41	28.28	--	--
Maryland	21.38	27.80	-23.0%	--	--	21.38	27.80
North Carolina	24.54	25.69	-4.5%	24.54	25.69	--	--
South Carolina	W	W	W	22.12	28.18	W	W
Virginia	W	W	W	17.69	20.86	W	W
West Virginia	W	W	W	21.83	25.72	W	W
East South Central	21.68	26.93	-19.0%	21.68	26.93	--	--
Alabama	23.55	27.73	-15.0%	23.55	27.73	--	--
Kentucky	22.53	25.51	-12.0%	22.53	25.51	--	--
Mississippi	21.78	23.96	-9.1%	21.78	23.96	--	--
Tennessee	20.98	27.57	-24.0%	20.98	27.57	--	--
West South Central	21.54	25.55	-16.0%	21.61	24.71	21.40	26.04
Arkansas	W	W	W	22.54	24.04	W	W
Louisiana	17.25	25.09	-31.0%	17.25	25.09	--	--
Oklahoma	23.21	25.12	-7.6%	23.21	25.12	--	--
Texas	W	W	W	20.02	24.83	W	W
Mountain	25.14	27.79	-9.5%	25.07	27.74	25.90	28.54
Arizona	25.32	27.58	-8.2%	25.32	27.58	--	--
Colorado	27.41	25.18	8.9%	27.41	25.18	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	25.55	25.75	W	W
New Mexico	--	30.80	--	--	30.80	--	--
Utah	W	W	W	25.24	27.01	W	W
Wyoming	24.29	27.92	-13.0%	24.29	27.92	--	--
Pacific Contiguous	W	W	W	25.90	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	25.90	--	W	W
Pacific Noncontiguous	W	W	W	19.57	24.19	W	W
Alaska	25.55	30.59	-16.0%	25.55	30.59	--	--
Hawaii	W	W	W	19.56	24.17	W	W
U.S. Total	20.02	24.12	-17.0%	20.08	24.50	19.85	23.14

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 See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Petroleum Liquids includes distillate and residual fuel oils.
 See the Technical Notes for fuel conversion factors.

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

Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, September 2023 and 2022 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	2.92	1.46	100.0%	2.92	1.46	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	2.88	1.09	164.0%	2.88	1.09	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	5.37	6.32	-15.0%	5.37	6.32	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	5.29	--	--	5.29	--	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	5.29	--	--	5.29	--	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	--	3.68	--	--	3.68	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	--	3.68	--	--	3.68	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.76	2.32	62.0%	3.76	2.32	--	--

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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) September 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	2.96	1.47	101.0%	2.96	1.47	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	2.88	1.15	150.0%	2.88	1.15	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	5.15	4.04	27.0%	5.15	4.04	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	5.37	7.35	-27.0%	5.37	7.35	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	5.37	7.35	-27.0%	5.37	7.35	--	--
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	4.74	5.39	-12.0%	4.74	5.39	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	4.74	5.39	-12.0%	4.74	5.39	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	4.21	4.51	-6.7%	4.21	4.51	--	--

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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, September 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023	September 2022	Percentage Change	September 2023	September 2022	September 2023	September 2022
New England	W	W	W	--	7.48	W	W
Connecticut	1.83	7.34	-75.0%	--	--	1.83	7.34
Maine	W	W	W	--	--	W	W
Massachusetts	1.74	7.80	-78.0%	--	7.48	1.74	7.80
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	6.96	W	--	--	W	6.96
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.69	7.10	-76.0%	1.96	8.11	1.67	7.04
New Jersey	1.69	7.21	-77.0%	--	--	1.69	7.21
New York	1.96	7.33	-73.0%	1.96	8.11	1.96	7.12
Pennsylvania	1.56	6.97	-78.0%	--	--	1.56	6.97
East North Central	2.49	7.27	-66.0%	3.16	7.33	2.17	7.23
Illinois	W	W	W	2.53	7.92	W	W
Indiana	3.34	W	W	4.52	7.07	2.52	W
Michigan	2.53	7.58	-67.0%	2.71	8.08	2.41	7.24
Ohio	1.91	7.33	-74.0%	2.06	7.75	1.89	7.26
Wisconsin	W	6.55	W	3.43	6.55	W	--
West North Central	W	W	W	2.94	6.65	W	W
Iowa	2.97	6.28	-53.0%	2.97	6.28	--	--
Kansas	2.85	7.65	-63.0%	2.85	7.65	--	--
Minnesota	W	W	W	3.79	8.42	W	W
Missouri	W	W	W	2.38	6.13	W	W
Nebraska	2.94	8.63	-66.0%	2.94	8.63	--	--
North Dakota	3.39	2.71	25.0%	3.39	2.71	--	--
South Dakota	2.51	5.18	-52.0%	2.51	5.18	--	--
South Atlantic	3.58	9.23	-61.0%	3.71	9.38	2.63	8.19
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	10.48	W	3.87	10.51	W	9.64
Georgia	W	9.08	W	2.98	9.15	W	8.70
Maryland	3.09	W	W	2.57	7.50	3.21	W
North Carolina	W	7.65	W	4.36	7.69	W	7.44
South Carolina	3.78	7.43	-49.0%	3.78	7.43	--	--
Virginia	2.57	7.69	-67.0%	2.91	7.79	1.78	7.42
West Virginia	W	W	W	1.65	5.95	W	W
East South Central	2.86	8.09	-65.0%	2.83	7.90	2.99	8.80
Alabama	W	W	W	3.21	9.02	W	W
Kentucky	W	W	W	3.07	7.38	W	W
Mississippi	W	W	W	2.70	7.58	W	W
Tennessee	2.53	7.27	-65.0%	2.53	7.27	--	--
West South Central	2.66	7.72	-66.0%	2.74	7.92	2.61	7.55
Arkansas	W	W	W	2.60	7.84	W	W
Louisiana	W	W	W	2.91	8.41	W	W
Oklahoma	W	W	W	2.72	8.31	W	W
Texas	2.63	7.54	-65.0%	2.66	7.52	2.62	7.55
Mountain	3.29	8.74	-62.0%	3.29	8.75	3.27	8.68
Arizona	W	W	W	3.18	9.48	W	W
Colorado	W	W	W	3.20	8.32	W	W
Idaho	2.84	8.38	-66.0%	2.84	8.38	--	--
Montana	2.46	W	W	2.46	3.95	--	W
Nevada	3.70	8.65	-57.0%	3.70	8.65	--	--
New Mexico	2.47	7.31	-66.0%	2.47	7.31	--	--
Utah	3.77	8.59	-56.0%	3.77	8.59	--	--
Wyoming	W	8.91	W	3.54	8.91	W	--
Pacific Contiguous	3.86	8.56	-55.0%	4.31	8.22	3.35	8.93
California	4.39	10.21	-57.0%	5.21	10.04	3.58	10.35
Oregon	W	W	W	2.57	5.70	W	W
Washington	W	W	W	3.45	6.60	W	W
Pacific Noncontiguous	8.07	5.70	42.0%	8.07	5.70	--	--
Alaska	8.07	5.70	42.0%	8.07	5.70	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.86	8.13	-65.0%	3.31	8.53	2.29	7.58

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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) September 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2023 YTD	September 2022 YTD	Percentage Change	September 2023 YTD	September 2022 YTD	September 2023 YTD	September 2022 YTD
New England	W	9.73	W	16.82	8.60	W	9.73
Connecticut	3.85	9.04	-57.0%	--	--	3.85	9.04
Maine	W	W	W	--	--	W	W
Massachusetts	8.01	11.33	-29.0%	16.82	8.60	8.01	11.36
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	8.82	W	--	--	W	8.82
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.33	6.66	-65.0%	3.21	7.42	2.25	6.59
New Jersey	2.06	7.07	-71.0%	--	--	2.06	7.07
New York	2.98	7.22	-59.0%	3.21	7.42	2.89	7.15
Pennsylvania	2.09	6.23	-66.0%	--	--	2.09	6.23
East North Central	2.69	6.49	-59.0%	3.26	6.56	2.38	6.44
Illinois	W	7.03	W	2.59	7.43	W	6.96
Indiana	2.96	6.49	-54.0%	3.25	6.75	2.68	6.26
Michigan	2.69	6.75	-60.0%	2.92	7.26	2.54	6.38
Ohio	2.19	6.39	-66.0%	2.49	6.48	2.15	6.37
Wisconsin	W	5.91	W	3.97	5.91	W	--
West North Central	W	W	W	3.16	10.65	W	W
Iowa	2.97	6.19	-52.0%	2.97	6.19	--	--
Kansas	3.04	7.41	-59.0%	3.04	7.41	--	--
Minnesota	W	W	W	4.11	7.46	W	W
Missouri	W	W	W	2.72	22.78	W	W
Nebraska	2.82	8.54	-67.0%	2.82	8.54	--	--
North Dakota	3.71	3.38	9.8%	3.71	3.38	--	--
South Dakota	2.58	4.71	-45.0%	2.58	4.71	--	--
South Atlantic	3.83	7.95	-52.0%	3.99	8.01	2.68	7.51
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	8.51	W	3.96	8.52	W	7.99
Georgia	W	8.09	W	3.01	8.12	W	7.94
Maryland	W	8.26	W	2.43	7.57	W	8.54
North Carolina	W	7.02	W	5.40	7.02	W	7.03
South Carolina	3.99	7.11	-44.0%	3.99	7.11	--	--
Virginia	3.29	7.21	-54.0%	3.70	7.45	2.19	6.42
West Virginia	W	W	W	1.96	6.41	W	W
East South Central	2.90	6.98	-58.0%	2.93	6.82	2.79	7.60
Alabama	W	W	W	3.21	7.96	W	W
Kentucky	W	W	W	3.52	6.75	W	W
Mississippi	W	W	W	2.73	6.62	W	W
Tennessee	2.79	5.92	-53.0%	2.79	5.92	--	--
West South Central	2.60	7.09	-63.0%	2.74	7.35	2.48	6.84
Arkansas	W	W	W	2.65	7.29	W	W
Louisiana	W	W	W	2.79	7.33	W	W
Oklahoma	W	W	W	2.93	7.97	W	W
Texas	2.53	6.92	-63.0%	2.64	7.13	2.50	6.85
Mountain	5.59	7.47	-25.0%	5.65	7.50	4.97	7.17
Arizona	4.65	7.81	-40.0%	4.48	7.94	5.51	7.22
Colorado	W	W	W	3.99	7.04	W	W
Idaho	7.59	7.15	6.2%	7.59	7.15	--	--
Montana	2.45	W	W	2.45	4.22	--	W
Nevada	8.17	7.36	11.0%	8.17	7.36	--	--
New Mexico	2.72	6.71	-59.0%	2.72	6.71	--	--
Utah	8.85	7.90	12.0%	8.85	7.90	--	--
Wyoming	W	W	W	8.14	7.73	W	W
Pacific Contiguous	7.36	W	W	8.21	6.97	6.46	W
California	W	8.28	W	9.38	8.37	W	8.21
Oregon	W	W	W	6.01	4.73	W	W
Washington	W	W	W	6.85	5.78	W	W
Pacific Noncontiguous	8.07	6.11	32.0%	8.07	6.11	--	--
Alaska	8.07	6.11	32.0%	8.07	6.11	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.45	7.37	-53.0%	3.91	7.60	2.83	7.04

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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, September 2023

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	1	0.98	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.98	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	69	2.65	8.6	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	69	2.65	8.6	0	--	--	0	--	--
East North Central	3,725	3.09	11.0	3,450	0.23	4.6	0	--	--
Illinois	726	3.32	22.2	1,239	0.23	4.5	0	--	--
Indiana	1,778	2.91	8.9	135	0.21	4.5	0	--	--
Michigan	65	2.62	7.8	822	0.24	4.5	0	--	--
Ohio	1,109	3.30	9.2	0	--	--	0	--	--
Wisconsin	48	2.13	7.7	1,253	0.22	4.7	0	--	--
West North Central	47	3.18	9.1	5,479	0.25	4.9	1,579	0.74	9.8
Iowa	15	3.60	8.6	1,028	0.21	4.7	0	--	--
Kansas	0	--	--	1,008	0.27	5.3	0	--	--
Minnesota	0	--	--	444	0.30	5.4	0	--	--
Missouri	33	3.00	9.3	1,930	0.23	4.7	0	--	--
Nebraska	0	--	--	958	0.26	4.9	0	--	--
North Dakota	0	--	--	0	--	--	1,579	0.74	9.8
South Dakota	0	--	--	111	0.35	5.3	0	--	--
South Atlantic	3,825	2.37	9.6	477	0.37	5.5	0	--	--
Delaware	24	1.94	7.4	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	534	2.70	8.7	0	--	--	0	--	--
Georgia	498	2.43	9.1	477	0.37	5.5	0	--	--
Maryland	119	2.20	11.6	0	--	--	0	--	--
North Carolina	597	1.75	9.8	0	--	--	0	--	--
South Carolina	475	1.94	9.5	0	--	--	0	--	--
Virginia	76	1.19	13.5	0	--	--	0	--	--
West Virginia	1,502	2.70	9.6	0	--	--	0	--	--
East South Central	1,892	2.68	9.9	1,623	0.27	5.0	78	0.45	14.5
Alabama	208	0.93	12.0	927	0.30	5.1	0	--	--
Kentucky	1,467	2.94	9.8	498	0.22	4.8	0	--	--
Mississippi	0	--	--	96	0.30	5.1	78	0.45	14.5
Tennessee	217	2.45	8.7	102	0.20	4.6	0	--	--
West South Central	34	2.71	9.1	5,712	0.28	5.2	1,091	1.07	16.8
Arkansas	3	0.69	12.3	967	0.21	4.7	0	--	--
Louisiana	31	2.94	8.7	261	0.22	4.8	0	--	--
Oklahoma	0	--	--	681	0.23	5.3	0	--	--
Texas	0	--	--	3,803	0.31	5.4	1,091	1.07	16.8
Mountain	689	0.63	11.7	4,175	0.48	8.5	0	--	--
Arizona	0	--	--	332	0.42	8.2	0	--	--
Colorado	109	0.50	11.0	1,083	0.33	6.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	574	0.75	9.3	0	--	--
Nevada	45	0.51	8.4	41	0.48	4.6	0	--	--
New Mexico	0	--	--	432	0.80	19.2	0	--	--
Utah	535	0.67	12.1	0	--	--	0	--	--
Wyoming	0	--	--	1,714	0.40	6.6	0	--	--
Pacific Contiguous	36	0.63	10.2	182	0.37	8.3	0	--	--
California	36	0.63	10.2	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	182	0.37	8.3	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	27	0.12	6.7
Alaska	0	--	--	0	--	--	27	0.12	6.7
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	10,318	2.57	10.3	21,098	0.30	5.7	2,775	0.86	12.6

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 2023 are preliminary. Values for 2022 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, September 2023

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	1,959	2.87	8.9	2,373	0.23	4.6	0	--	--
Illinois	70	2.60	11.2	162	0.20	4.5	0	--	--
Indiana	1,578	2.85	8.9	135	0.21	4.5	0	--	--
Michigan	65	2.62	7.8	822	0.24	4.5	0	--	--
Ohio	199	3.40	9.2	0	--	--	0	--	--
Wisconsin	48	2.13	7.7	1,253	0.22	4.7	0	--	--
West North Central	33	3.00	9.3	5,302	0.25	4.9	1,579	0.74	9.8
Iowa	0	--	--	884	0.22	4.8	0	--	--
Kansas	0	--	--	1,008	0.27	5.3	0	--	--
Minnesota	0	--	--	444	0.30	5.4	0	--	--
Missouri	33	3.00	9.3	1,930	0.23	4.7	0	--	--
Nebraska	0	--	--	925	0.26	5.0	0	--	--
North Dakota	0	--	--	0	--	--	1,579	0.74	9.8
South Dakota	0	--	--	111	0.35	5.3	0	--	--
South Atlantic	3,540	2.36	9.5	477	0.37	5.5	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	524	2.75	8.8	0	--	--	0	--	--
Georgia	490	2.45	9.1	477	0.37	5.5	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	597	1.75	9.8	0	--	--	0	--	--
South Carolina	468	1.96	9.6	0	--	--	0	--	--
Virginia	81	1.10	15.3	0	--	--	0	--	--
West Virginia	1,400	2.64	9.6	0	--	--	0	--	--
East South Central	1,847	2.73	10.0	1,623	0.27	5.0	0	--	--
Alabama	208	0.93	12.0	927	0.30	5.1	0	--	--
Kentucky	1,467	2.94	9.8	498	0.22	4.8	0	--	--
Mississippi	0	--	--	96	0.30	5.1	0	--	--
Tennessee	171	2.92	8.9	102	0.20	4.6	0	--	--
West South Central	31	2.94	8.7	3,287	0.24	5.0	120	2.29	29.6
Arkansas	0	--	--	788	0.21	4.7	0	--	--
Louisiana	31	2.94	8.7	198	0.20	4.7	0	--	--
Oklahoma	0	--	--	681	0.23	5.3	0	--	--
Texas	0	--	--	1,620	0.26	5.1	120	2.29	29.6
Mountain	689	0.63	11.7	3,540	0.43	8.4	0	--	--
Arizona	0	--	--	332	0.42	8.2	0	--	--
Colorado	109	0.50	11.0	1,083	0.33	6.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	45	0.51	8.4	22	0.56	3.1	0	--	--
New Mexico	0	--	--	432	0.80	19.2	0	--	--
Utah	535	0.67	12.1	0	--	--	0	--	--
Wyoming	0	--	--	1,671	0.41	6.6	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	27	0.12	6.7
Alaska	0	--	--	0	--	--	27	0.12	6.7
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	8,098	2.43	9.6	16,601	0.29	5.7	1,726	0.81	10.8

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Notes:

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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, September 2023

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	1	0.98	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.98	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	69	2.65	8.6	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	69	2.65	8.6	0	--	--	0	--	--
East North Central	1,703	3.32	13.7	1,026	0.24	4.6	0	--	--
Illinois	592	3.40	25.5	1,026	0.24	4.6	0	--	--
Indiana	201	3.41	8.9	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	910	3.27	9.3	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	244	2.76	10.7	0	--	--	0	--	--
Delaware	24	1.94	7.4	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	119	2.20	11.6	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	101	3.64	10.5	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	78	0.45	14.5
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	78	0.45	14.5
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	2,426	0.34	5.5	971	0.96	15.6
Arkansas	0	--	--	180	0.21	4.7	0	--	--
Louisiana	0	--	--	64	0.27	5.0	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	2,182	0.35	5.6	971	0.96	15.6
Mountain	0	--	--	635	0.71	9.0	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	574	0.75	9.3	0	--	--
Nevada	0	--	--	18	0.37	6.8	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	43	0.37	5.4	0	--	--
Pacific Contiguous	0	--	--	182	0.37	8.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	182	0.37	8.3	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	2,016	3.22	13.1	4,270	0.37	5.9	1,049	0.93	15.5

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 W = Withheld to avoid disclosure of individual company data.

Notes:

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See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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, September 2023

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

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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, September 2023

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	64	3.50	8.5	50	0.22	4.4	0	--	--
Illinois	64	3.50	8.5	50	0.22	4.4	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	15	3.60	8.6	177	0.20	4.4	0	--	--
Iowa	15	3.60	8.6	144	0.20	4.4	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	33	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	41	1.06	7.2	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	10	0.56	6.4	0	--	--	0	--	--
Georgia	8	1.26	8.3	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	8	0.59	7.3	0	--	--	0	--	--
Virginia	15	1.50	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	46	0.80	8.3	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	46	0.80	8.3	0	--	--	0	--	--
West South Central	3	0.69	12.3	0	--	--	0	--	--
Arkansas	3	0.69	12.3	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	36	0.63	10.2	0	--	--	0	--	--
California	36	0.63	10.2	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	204	1.79	8.5	227	0.20	4.4	0	--	--

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 Bituminous coal includes anthracite coal and coal-derived synthesis gas.
 See Glossary for definitions. Values for 2023 are preliminary. Values for 2022 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, 2013 - September 2023 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,411,058	1,367,191	976,715	7,497	3,762,462
2017	1,378,648	1,352,888	984,298	7,523	3,723,356
2018	1,469,093	1,381,755	1,000,673	7,665	3,859,185
2019	1,440,289	1,360,877	1,002,353	7,632	3,811,150
2020	1,464,605	1,287,440	959,082	6,548	3,717,674
2021	1,470,487	1,328,439	1,000,613	6,334	3,805,874
2022	1,509,233	1,390,873	1,020,464	6,599	3,927,169
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	140,504	113,605	83,982	565	338,656
February	125,342	103,063	76,893	566	305,863
March	111,439	108,603	83,679	579	304,300
April	97,432	104,566	82,422	513	284,933
May	110,071	113,007	86,090	529	309,697
June	136,310	121,567	88,716	513	347,106
July	164,277	133,952	90,420	566	389,214
August	160,271	135,676	93,143	536	389,626
Sept	129,241	124,195	86,550	558	340,544
October	99,792	111,851	85,017	535	297,196
November	103,152	106,858	81,701	546	292,258
December	131,402	113,929	81,852	593	327,776
Year 2023					
January	132,050	110,453	78,969	569	322,042
February	112,538	101,399	76,058	550	290,545
March	110,784	110,033	84,430	567	305,813
April	96,536	101,519	81,769	511	280,334
May	100,472	110,360	86,399	518	297,748
June	121,560	117,688	88,051	568	327,866
July	160,080	132,592	91,482	620	384,774
August	162,035	134,310	92,989	581	389,914
Sept	133,109	123,274	85,764	655	342,801
Year to Date					
2021	1,148,208	1,006,171	750,057	4,789	2,909,226
2022	1,174,887	1,058,234	771,894	4,925	3,009,940
2023	1,129,162	1,041,627	765,911	5,137	2,941,837
Rolling 12 Months Ending in September					
2022	1,497,166	1,380,502	1,022,450	6,470	3,906,588
2023	1,463,508	1,374,266	1,014,481	6,812	3,859,066

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 2022 and prior years are final. Values for 2023 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, 2013 - September 2023 (Million Dollars)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	177,077	142,643	66,068	722	386,509
2017	177,661	144,242	67,691	728	390,322
2018	189,033	147,425	69,218	744	406,420
2019	187,436	145,280	68,285	737	401,738
2020	192,663	136,372	63,956	648	393,639
2021	200,834	149,008	71,835	646	422,323
2022	226,990	172,600	84,895	765	485,249
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	19,163	12,794	6,037	60	38,053
February	17,247	12,019	5,601	62	34,929
March	16,062	12,647	6,164	63	34,936
April	14,194	12,355	6,343	58	32,950
May	16,394	13,561	7,099	57	37,112
June	20,850	15,506	7,854	62	44,272
July	25,155	17,435	8,422	70	51,082
August	25,354	18,199	8,739	69	52,361
Sept	20,930	16,492	7,841	70	45,333
October	15,961	14,418	7,184	63	37,627
November	16,041	13,179	6,654	63	35,937
December	19,637	13,996	6,955	68	40,656
Year 2023					
January	20,433	14,085	6,573	70	41,162
February	17,983	12,875	6,159	71	37,088
March	17,626	13,731	6,577	69	38,003
April	15,544	12,397	6,133	61	34,136
May	16,224	13,602	6,586	64	36,476
June	19,581	15,031	7,116	70	41,799
July	25,430	17,376	7,642	79	50,527
August	25,806	17,828	8,200	76	51,911
Sept	21,683	16,334	7,315	93	45,425
Year to Date					
2021	155,914	112,517	53,570	485	322,487
2022	175,350	131,007	64,101	571	371,029
2023	180,311	133,260	62,301	654	376,526
Rolling 12 Months Ending in September					
2022	220,270	167,498	82,366	731	470,865
2023	231,951	174,852	83,095	848	490,746

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 2022 and prior years are final. Values for 2023 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, 2013 - September 2023 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.43	6.76	9.63	10.27
2017	12.89	10.66	6.88	9.68	10.48
2018	12.87	10.67	6.92	9.70	10.53
2019	13.01	10.68	6.81	9.66	10.54
2020	13.15	10.59	6.67	9.90	10.59
2021	13.66	11.22	7.18	10.20	11.10
2022	15.04	12.41	8.32	11.59	12.36
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	13.64	11.26	7.19	10.54	11.24
February	13.76	11.66	7.28	10.95	11.42
March	14.41	11.65	7.37	10.87	11.48
April	14.57	11.82	7.70	11.26	11.56
May	14.89	12.00	8.25	10.79	11.98
June	15.30	12.75	8.85	12.10	12.75
July	15.31	13.02	9.31	12.39	13.12
August	15.82	13.41	9.38	12.90	13.44
Sept	16.19	13.28	9.06	12.57	13.31
October	15.99	12.89	8.45	11.81	12.66
November	15.55	12.33	8.14	11.56	12.30
December	14.94	12.28	8.50	11.48	12.40
Year 2023					
January	15.47	12.75	8.32	12.36	12.78
February	15.98	12.70	8.10	12.99	12.77
March	15.91	12.48	7.79	12.18	12.43
April	16.10	12.21	7.50	11.96	12.18
May	16.15	12.32	7.62	12.36	12.25
June	16.11	12.77	8.08	12.36	12.75
July	15.89	13.10	8.35	12.69	13.13
August	15.93	13.27	8.82	13.13	13.31
Sept	16.29	13.25	8.53	14.20	13.25
Year to Date					
2021	13.58	11.18	7.14	10.14	11.08
2022	14.92	12.38	8.30	11.59	12.33
2023	15.97	12.79	8.13	12.73	12.80
Rolling 12 Months Ending in September					
2022	14.71	12.13	8.06	11.31	12.05
2023	15.85	12.72	8.19	12.45	12.72

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 2022 and prior years are final. Values for 2023 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, September 2023 and 2022 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	4,063	3,915	4,318	4,300	1,276	1,277	37	41	9,695	9,533
Connecticut	1,049	953	967	953	219	233	14	15	2,249	2,153
Maine	401	395	354	369	207	221	0	0	962	984
Massachusetts	1,768	1,786	2,157	2,166	530	503	21	24	4,476	4,479
New Hampshire	387	361	349	344	172	165	0	0	908	870
Rhode Island	292	262	330	313	46	49	2	2	670	625
Vermont	167	158	161	156	102	107	0	0	430	421
Middle Atlantic	11,528	11,629	12,557	12,670	6,139	6,397	338	285	30,562	30,982
New Jersey	2,592	2,417	3,116	3,097	498	521	27	21	6,233	6,056
New York	4,629	4,872	6,427	6,489	1,314	1,410	277	219	12,647	12,990
Pennsylvania	4,306	4,340	3,014	3,084	4,328	4,466	34	45	11,682	11,935
East North Central	14,672	14,730	14,894	15,137	15,373	15,568	45	40	44,984	45,474
Illinois	3,656	3,715	3,916	3,978	3,402	3,419	42	36	11,016	11,148
Indiana	2,679	2,614	2,051	2,128	3,489	3,538	1	1	8,220	8,281
Michigan	2,548	2,676	3,090	3,148	2,329	2,397	0	0	7,968	8,222
Ohio	4,061	3,993	3,877	3,925	4,147	4,200	2	2	12,087	12,120
Wisconsin	1,728	1,733	1,959	1,958	2,006	2,014	0	0	5,693	5,704
West North Central	8,884	8,519	8,978	9,135	8,621	8,601	3	4	26,486	26,258
Iowa	1,158	1,078	1,011	994	2,224	2,268	0	0	4,393	4,341
Kansas	1,362	1,306	1,479	1,457	982	1,002	0	0	3,823	3,765
Minnesota	1,794	1,726	1,883	1,915	1,706	1,743	1	1	5,384	5,384
Missouri	2,993	2,865	2,592	2,857	1,096	1,124	2	2	6,684	6,848
Nebraska	872	851	815	813	1,147	1,164	0	0	2,834	2,828
North Dakota	310	311	772	672	1,175	1,017	0	0	2,256	1,999
South Dakota	395	382	426	427	291	283	0	0	1,111	1,092
South Atlantic	34,660	32,404	30,066	29,368	11,581	11,688	125	84	76,433	73,544
Delaware	479	464	367	362	172	163	0	0	1,019	989
District of Columbia	268	220	651	621	17	15	33	24	969	880
Florida	13,777	12,890	9,234	8,856	1,472	1,474	6	6	24,488	23,226
Georgia	5,598	5,119	4,414	4,419	2,784	2,818	13	12	12,810	12,369
Maryland	2,216	2,062	2,429	2,295	297	297	36	30	4,978	4,683
North Carolina	5,174	4,818	4,451	4,195	2,189	2,172	1	1	11,815	11,187
South Carolina	2,862	2,708	2,259	2,161	2,171	2,205	0	0	7,292	7,074
Virginia	3,580	3,422	5,682	5,891	1,293	1,369	36	11	10,590	10,694
West Virginia	707	700	580	568	1,185	1,174	0	0	2,471	2,442
East South Central	11,352	10,398	8,774	8,389	8,047	8,117	0	0	28,173	26,904
Alabama	3,067	2,783	2,149	2,037	2,647	2,603	0	0	7,863	7,423
Kentucky	2,126	2,051	1,657	1,722	2,196	2,290	0	0	5,979	6,062
Mississippi	2,093	1,737	1,505	1,318	1,331	1,331	0	0	4,929	4,386
Tennessee	4,065	3,827	3,463	3,313	1,874	1,893	0	0	9,402	9,032
West South Central	26,422	22,783	20,222	20,536	19,510	19,227	18	18	66,172	62,564
Arkansas	1,878	1,685	1,179	1,118	1,662	1,517	0	0	4,719	4,320
Louisiana	3,608	2,906	2,433	2,153	3,410	3,387	1	1	9,452	8,448
Oklahoma	2,333	2,192	2,064	2,037	1,889	1,819	0	0	6,285	6,048
Texas	18,603	16,000	14,547	15,228	12,550	12,504	17	17	45,716	43,749
Mountain	9,563	10,312	9,079	9,250	7,561	7,409	17	13	26,221	26,983
Arizona	3,878	4,121	2,989	3,037	1,218	1,252	1	1	8,085	8,412
Colorado	1,733	1,749	1,779	1,811	1,353	1,250	11	7	4,875	4,817
Idaho	610	650	545	567	805	907	0	0	1,961	2,125
Montana	385	416	407	415	405	406	0	0	1,197	1,237
Nevada	1,215	1,528	1,083	1,137	1,107	1,119	1	1	3,405	3,784
New Mexico	651	611	849	854	1,063	920	0	0	2,563	2,385
Utah	907	1,048	1,137	1,139	748	740	4	4	2,797	2,931
Wyoming	184	189	290	288	863	815	0	0	1,337	1,293
Pacific Contiguous	11,593	14,168	13,942	14,954	7,246	7,844	71	73	32,851	37,039
California	7,924	10,324	10,250	11,123	4,113	4,496	61	62	22,348	26,005
Oregon	1,283	1,345	1,373	1,379	1,410	1,568	2	2	4,068	4,294
Washington	2,386	2,499	2,320	2,453	1,722	1,780	8	9	6,436	6,740
Pacific Noncontiguous	371	384	443	456	410	422	0	0	1,224	1,261
Alaska	144	143	202	201	110	118	0	0	456	462
Hawaii	227	241	242	255	300	303	0	0	768	799
U.S. Total	133,109	129,241	123,274	124,195	85,764	86,550	655	558	342,801	340,544

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 2022 are final. Values for 2023 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 September 2023 and 2022 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD
New England	35,713	37,589	37,008	38,139	11,263	11,797	363	375	84,348	87,901
Connecticut	9,566	10,209	8,521	8,874	1,963	2,118	132	127	20,183	21,328
Maine	3,749	3,930	3,028	3,167	1,781	1,976	0	0	8,558	9,073
Massachusetts	14,939	15,552	18,186	18,646	4,622	4,735	212	230	37,958	39,163
New Hampshire	3,526	3,747	3,071	3,130	1,459	1,455	0	0	8,056	8,332
Rhode Island	2,316	2,497	2,764	2,860	475	481	19	17	5,575	5,856
Vermont	1,616	1,655	1,438	1,461	963	1,033	0	0	4,018	4,149
Middle Atlantic	100,951	108,407	107,866	111,925	53,931	55,515	2,586	2,525	265,334	278,371
New Jersey	22,308	24,119	27,168	28,539	4,589	4,982	193	198	54,258	57,838
New York	38,731	40,994	53,736	54,883	11,369	12,115	2,042	1,932	105,877	109,924
Pennsylvania	39,911	43,294	26,963	28,502	37,973	38,418	352	395	105,199	110,609
East North Central	138,803	148,829	132,326	135,036	138,932	141,250	355	382	410,416	425,497
Illinois	33,829	36,441	34,767	35,879	30,962	31,679	317	341	99,875	104,340
Indiana	24,588	26,533	17,368	18,005	30,902	32,518	9	10	72,868	77,066
Michigan	24,925	27,105	27,810	28,409	21,341	21,438	4	3	74,080	76,955
Ohio	38,334	41,278	34,751	34,936	38,070	37,784	23	27	111,179	114,026
Wisconsin	17,126	17,472	17,630	17,807	17,656	17,830	1	1	52,413	53,109
West North Central	84,270	86,305	78,952	78,601	76,737	75,542	31	34	239,991	240,483
Iowa	11,555	11,670	9,322	9,358	20,583	19,968	0	0	41,460	40,996
Kansas	11,102	11,400	12,351	12,101	8,598	8,894	0	0	32,051	32,395
Minnesota	18,057	17,897	17,057	17,119	15,337	15,472	14	15	50,465	50,504
Missouri	27,402	29,028	22,219	22,867	9,671	10,005	17	19	59,308	61,919
Nebraska	8,273	8,438	7,242	7,271	9,963	10,116	0	0	25,478	25,825
North Dakota	3,803	3,847	7,002	6,148	10,171	8,652	0	0	20,977	18,647
South Dakota	4,078	4,025	3,759	3,737	2,415	2,435	0	0	10,252	10,197
South Atlantic	288,805	297,902	253,263	254,707	105,026	108,084	887	742	647,981	661,435
Delaware	3,860	4,112	3,170	3,290	1,479	1,540	0	0	8,509	8,941
District of Columbia	1,862	1,987	5,348	5,577	130	137	229	180	7,569	7,882
Florida	105,551	104,727	75,460	73,895	12,977	13,340	54	58	194,042	192,020
Georgia	46,626	47,812	36,643	37,929	24,927	25,815	109	109	108,304	111,865
Maryland	20,028	21,596	20,423	21,049	2,593	2,716	308	285	43,353	45,646
North Carolina	45,613	48,322	37,276	37,554	20,228	20,922	10	12	103,127	106,810
South Carolina	24,427	25,231	19,159	18,548	19,286	20,033	0	0	62,872	63,811
Virginia	33,225	35,804	50,392	51,387	12,513	12,644	177	98	96,306	99,933
West Virginia	7,612	8,311	5,392	5,478	10,893	10,937	0	0	23,897	24,726
East South Central	91,936	96,125	69,470	70,707	71,910	75,985	0	0	233,315	242,817
Alabama	24,902	25,829	17,392	17,273	23,633	24,244	0	0	65,927	67,345
Kentucky	19,441	20,917	14,265	15,102	19,557	22,280	0	0	53,263	58,299
Mississippi	15,011	14,933	11,192	10,802	11,925	12,070	0	0	38,128	37,805
Tennessee	32,582	34,446	26,621	27,530	16,795	17,391	0	0	75,998	79,367
West South Central	190,670	195,796	160,762	165,617	179,664	168,385	141	142	531,237	529,940
Arkansas	14,618	15,146	9,111	9,066	14,102	13,587	0	0	37,831	37,799
Louisiana	25,220	24,760	18,436	17,881	30,245	30,371	8	8	73,908	73,019
Oklahoma	18,954	20,216	17,110	16,962	16,958	16,411	0	0	53,021	53,589
Texas	131,878	135,674	116,106	121,708	118,359	108,016	133	134	366,476	365,532
Mountain	86,179	86,489	78,587	78,156	65,442	65,024	129	116	230,337	229,785
Arizona	31,344	30,860	24,729	24,380	10,707	10,825	8	8	66,788	66,073
Colorado	15,656	15,855	15,608	15,980	11,646	11,287	75	68	42,986	43,191
Idaho	7,265	7,322	5,102	5,114	7,347	7,645	0	0	19,713	20,081
Montana	4,349	4,381	3,780	3,758	3,503	3,532	0	0	11,631	11,671
Nevada	10,921	11,465	9,533	9,622	9,373	9,514	5	5	29,833	30,606
New Mexico	5,737	5,610	7,117	6,953	8,969	7,970	0	0	21,822	20,533
Utah	8,664	8,779	9,978	9,666	6,448	6,891	41	34	25,130	25,370
Wyoming	2,243	2,215	2,741	2,683	7,450	7,361	0	0	12,434	12,260
Pacific Contiguous	108,357	113,923	119,417	121,326	59,430	66,717	646	609	287,850	302,576
California	64,182	69,513	84,646	86,770	31,637	36,330	553	506	181,019	193,120
Oregon	15,306	15,136	12,871	12,383	12,317	14,261	17	17	40,511	41,797
Washington	28,868	29,274	21,900	22,173	15,476	16,126	76	87	66,320	67,659
Pacific Noncontiguous	3,477	3,521	3,975	4,019	3,576	3,595	0	0	11,027	11,135
Alaska	1,494	1,480	1,916	1,908	1,032	1,027	0	0	4,442	4,415
Hawaii	1,983	2,041	2,059	2,111	2,544	2,568	0	0	6,586	6,720
U.S. Total	1,129,162	1,174,887	1,041,627	1,058,234	765,911	771,894	5,137	4,925	2,941,837	3,009,940

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 2022 are final. Values for 2023 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, September 2023 and 2022 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	1,114	1,069	813	819	197	197	4	5	2,128	2,090
Connecticut	307	273	193	190	35	36	3	3	537	502
Maine	108	92	60	54	25	24	0	0	192	169
Massachusetts	495	492	404	425	91	90	1	2	991	1,008
New Hampshire	90	116	64	72	26	25	0	0	181	214
Rhode Island	79	64	63	51	9	9	0	0	151	124
Vermont	35	32	29	28	12	13	0	0	77	73
Middle Atlantic	2,318	2,308	2,085	2,119	482	575	60	38	4,944	5,041
New Jersey	467	401	453	437	62	68	3	3	986	909
New York	1,075	1,167	1,300	1,323	92	112	53	32	2,520	2,634
Pennsylvania	775	740	332	359	328	395	4	4	1,439	1,498
East North Central	2,348	2,387	1,775	1,813	1,225	1,330	2	3	5,350	5,533
Illinois	541	625	449	491	286	322	2	3	1,278	1,440
Indiana	378	392	241	265	268	299	0	0	888	956
Michigan	493	489	407	395	193	197	0	0	1,093	1,082
Ohio	637	596	422	419	294	327	0	0	1,353	1,343
Wisconsin	299	285	256	242	183	185	0	0	738	712
West North Central	1,245	1,192	1,009	1,002	715	733	0	0	2,969	2,928
Iowa	162	155	114	113	183	192	0	0	460	460
Kansas	183	191	164	177	75	88	0	0	423	455
Minnesota	274	268	244	256	165	171	0	0	684	696
Missouri	426	386	303	278	95	97	0	0	824	761
Nebraska	108	102	79	75	88	88	0	0	275	265
North Dakota	40	41	60	59	84	74	0	0	184	174
South Dakota	52	50	43	43	24	23	0	0	119	115
South Atlantic	5,193	4,631	3,291	3,333	916	991	12	9	9,412	8,965
Delaware	76	66	43	42	13	15	0	0	132	123
District of Columbia	44	31	110	95	2	1	3	2	158	129
Florida	2,137	1,875	1,087	1,018	139	145	1	1	3,364	3,038
Georgia	785	761	498	564	200	276	1	1	1,484	1,603
Maryland	376	300	302	301	29	31	4	3	712	636
North Carolina	729	609	460	385	176	158	0	0	1,365	1,153
South Carolina	415	393	243	242	153	167	0	0	811	801
Virginia	529	499	487	626	117	117	3	1	1,136	1,243
West Virginia	102	98	62	61	86	81	0	0	250	239
East South Central	1,474	1,419	1,056	1,073	541	635	0	0	3,072	3,127
Alabama	455	431	279	283	186	221	0	0	920	935
Kentucky	264	276	193	212	142	184	0	0	600	672
Mississippi	273	226	181	163	95	94	0	0	549	484
Tennessee	482	486	403	414	118	136	0	0	1,003	1,036
West South Central	3,670	3,308	1,940	2,096	1,432	1,493	1	1	7,043	6,898
Arkansas	238	223	122	121	119	125	0	0	479	469
Louisiana	411	414	237	275	183	280	0	0	831	970
Oklahoma	309	311	211	236	125	138	0	0	645	685
Texas	2,711	2,359	1,370	1,464	1,004	949	1	1	5,087	4,774
Mountain	1,376	1,370	1,056	1,035	625	644	2	1	3,058	3,050
Arizona	558	547	361	335	97	109	0	0	1,017	991
Colorado	260	262	224	230	121	116	1	1	607	609
Idaho	71	68	49	47	61	64	0	0	181	179
Montana	51	49	50	44	28	39	0	0	129	132
Nevada	206	210	138	147	134	126	0	0	478	484
New Mexico	99	92	99	103	67	69	0	0	265	263
Utah	107	119	105	102	53	61	1	0	266	283
Wyoming	23	23	29	28	63	59	0	0	115	109
Pacific Contiguous	2,817	3,104	3,178	3,053	1,065	1,104	10	12	7,070	7,272
California	2,377	2,681	2,802	2,692	852	868	9	10	6,040	6,251
Oregon	168	158	144	129	102	116	0	0	415	403
Washington	272	265	232	233	110	120	1	1	615	618
Pacific Noncontiguous	129	143	132	149	117	139	0	0	378	431
Alaska	35	33	42	41	18	19	0	0	96	92
Hawaii	94	110	90	108	98	121	0	0	282	339
U.S. Total	21,683	20,930	16,334	16,492	7,315	7,841	93	70	45,425	45,333

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 2022 are final. Values for 2023 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 September 2023 and 2022 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD
New England	10,363	9,123	7,112	6,877	1,772	1,773	46	42	19,293	17,815
Connecticut	2,926	2,531	1,713	1,646	304	319	27	23	4,970	4,519
Maine	1,017	881	538	492	216	223	0	0	1,772	1,596
Massachusetts	4,432	3,932	3,505	3,462	824	805	15	16	8,776	8,215
New Hampshire	1,029	898	634	567	230	218	0	0	1,893	1,684
Rhode Island	626	554	466	458	90	85	3	3	1,186	1,100
Vermont	332	327	255	251	109	123	0	0	696	700
Middle Atlantic	19,789	19,669	16,648	16,974	4,277	4,688	385	326	41,099	41,657
New Jersey	3,968	4,055	3,875	3,960	558	619	26	26	8,427	8,661
New York	8,582	8,925	9,736	10,002	791	920	324	268	19,433	20,115
Pennsylvania	7,239	6,688	3,037	3,012	2,928	3,149	36	32	13,240	12,881
East North Central	22,485	22,589	15,860	15,612	11,232	11,619	24	29	49,601	49,848
Illinois	5,381	5,608	3,998	4,073	2,606	2,736	22	25	12,006	12,441
Indiana	3,684	3,778	2,191	2,250	2,584	2,730	1	1	8,460	8,759
Michigan	4,662	4,829	3,703	3,551	1,747	1,783	1	0	10,113	10,164
Ohio	5,884	5,642	3,722	3,617	2,759	2,831	1	3	12,365	12,092
Wisconsin	2,875	2,732	2,246	2,121	1,536	1,539	0	0	6,656	6,392
West North Central	11,121	11,018	8,443	8,305	6,067	5,989	3	4	25,634	25,316
Iowa	1,546	1,567	996	1,017	1,483	1,477	0	0	4,025	4,061
Kansas	1,521	1,591	1,388	1,392	705	727	0	0	3,614	3,709
Minnesota	2,637	2,564	2,139	2,123	1,430	1,439	2	2	6,207	6,128
Missouri	3,560	3,463	2,327	2,213	789	782	2	2	6,678	6,460
Nebraska	937	918	670	648	754	736	0	0	2,361	2,302
North Dakota	419	427	546	529	711	633	0	0	1,676	1,588
South Dakota	500	489	378	382	194	196	0	0	1,072	1,067
South Atlantic	41,959	39,833	27,968	27,401	8,115	8,416	91	68	78,133	75,719
Delaware	595	543	375	353	118	135	0	0	1,088	1,031
District of Columbia	299	275	904	861	14	10	22	14	1,240	1,161
Florida	16,044	14,494	8,924	8,219	1,249	1,207	6	6	26,223	23,926
Georgia	6,473	6,720	4,175	4,680	1,784	2,313	8	11	12,441	13,724
Maryland	3,256	3,051	2,630	2,599	255	269	34	26	6,176	5,945
North Carolina	5,964	5,559	3,627	3,246	1,468	1,362	1	1	11,060	10,168
South Carolina	3,448	3,406	2,049	1,997	1,324	1,417	0	0	6,821	6,820
Virginia	4,811	4,693	4,693	4,882	1,119	977	19	10	10,642	10,562
West Virginia	1,070	1,093	590	564	783	726	0	0	2,443	2,383
East South Central	12,031	12,367	8,495	8,593	4,927	5,442	0	0	25,453	26,402
Alabama	3,626	3,684	2,286	2,269	1,682	1,866	0	0	7,594	7,819
Kentucky	2,415	2,662	1,648	1,764	1,313	1,641	0	0	5,376	6,067
Mississippi	2,011	1,833	1,403	1,259	853	797	0	0	4,267	3,889
Tennessee	3,979	4,187	3,158	3,302	1,079	1,138	0	0	8,216	8,627
West South Central	25,821	25,813	14,945	15,799	11,815	12,109	11	10	52,592	53,731
Arkansas	1,793	1,824	943	927	980	1,004	0	0	3,716	3,754
Louisiana	2,904	3,164	1,904	2,085	1,794	2,230	1	1	6,604	7,480
Oklahoma	2,340	2,518	1,626	1,764	1,093	1,136	0	0	5,059	5,418
Texas	18,784	18,308	10,472	11,023	7,948	7,739	10	9	37,213	37,079
Mountain	11,811	11,027	8,707	8,108	5,199	4,855	14	12	25,731	24,003
Arizona	4,356	4,025	2,913	2,657	856	847	1	1	8,126	7,529
Colorado	2,238	2,237	1,841	1,840	1,005	971	7	7	5,091	5,054
Idaho	793	757	446	423	539	523	0	0	1,779	1,702
Montana	537	485	452	388	277	239	0	0	1,265	1,112
Nevada	1,846	1,542	1,150	958	1,022	787	1	1	4,018	3,288
New Mexico	812	777	783	771	530	522	0	0	2,125	2,071
Utah	975	958	855	815	456	460	5	4	2,291	2,237
Wyoming	255	247	267	257	515	505	0	0	1,037	1,009
Pacific Contiguous	23,738	22,700	23,878	22,123	7,812	8,099	80	80	55,508	53,002
California	18,650	17,973	20,358	18,873	5,947	6,169	70	70	45,025	43,085
Oregon	1,931	1,727	1,324	1,153	881	956	2	2	4,138	3,838
Washington	3,158	3,000	2,195	2,097	985	974	8	9	6,345	6,079
Pacific Noncontiguous	1,193	1,211	1,205	1,215	1,085	1,110	0	0	3,483	3,537
Alaska	355	343	397	382	190	191	0	0	942	916
Hawaii	838	868	808	833	895	920	0	0	2,541	2,621
U.S. Total	180,311	175,350	133,260	131,007	62,301	64,101	654	571	376,526	371,029

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

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

Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, September 2023 and 2022 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	27.41	27.32	18.83	19.05	15.44	15.39	11.79	11.72	21.95	21.92
Connecticut	29.25	28.67	19.94	19.90	15.81	15.44	18.48	19.12	23.87	23.29
Maine	26.86	23.17	16.92	14.61	11.95	10.77	--	--	20.00	17.18
Massachusetts	28.00	27.56	18.72	19.61	17.18	17.85	6.79	6.48	22.15	22.51
New Hampshire	23.31	32.26	18.42	21.08	15.16	15.33	--	--	19.89	24.62
Rhode Island	26.94	24.39	19.11	16.33	19.10	17.93	17.44	17.13	22.51	19.84
Vermont	21.21	20.42	18.26	17.68	11.46	12.11	--	--	17.79	17.29
Middle Atlantic	20.11	19.85	16.60	16.73	7.84	8.99	17.73	13.49	16.18	16.27
New Jersey	18.02	16.59	14.54	14.12	12.43	12.98	12.88	13.46	15.81	15.01
New York	23.23	23.95	20.22	20.39	6.99	7.96	19.09	14.51	19.92	20.28
Pennsylvania	18.01	17.06	11.02	11.63	7.58	8.84	10.60	8.57	12.32	12.55
East North Central	16.00	16.20	11.92	11.98	7.97	8.54	5.33	7.94	11.89	12.17
Illinois	14.79	16.81	11.47	12.35	8.42	9.41	4.87	7.36	11.61	12.92
Indiana	14.10	14.99	11.77	12.47	7.69	8.44	14.94	16.27	10.80	11.54
Michigan	19.35	18.29	13.16	12.53	8.28	8.24	13.72	11.88	13.71	13.16
Ohio	15.68	14.94	10.88	10.69	7.10	7.79	8.98	13.89	11.20	11.08
Wisconsin	17.32	16.42	13.05	12.37	9.13	9.19	19.26	16.10	12.97	12.48
West North Central	14.01	13.99	11.23	10.97	8.29	8.52	13.01	12.27	11.21	11.15
Iowa	14.03	14.34	11.32	11.40	8.25	8.47	--	--	10.48	10.60
Kansas	13.46	14.60	11.11	12.11	7.64	8.80	--	--	11.06	12.10
Minnesota	15.29	15.53	12.94	13.39	9.70	9.82	12.53	13.82	12.70	12.92
Missouri	14.23	13.47	11.70	9.74	8.66	8.64	13.31	11.52	12.33	11.12
Nebraska	12.39	12.02	9.74	9.28	7.67	7.52	--	--	9.72	9.38
North Dakota	12.77	13.06	7.77	8.84	7.19	7.31	--	--	8.16	8.72
South Dakota	13.05	12.97	10.18	10.14	8.15	8.00	--	--	10.67	10.57
South Atlantic	14.98	14.29	10.94	11.35	7.91	8.48	9.94	10.65	12.31	12.19
Delaware	15.83	14.18	11.64	11.48	7.81	9.50	--	--	12.96	12.42
District of Columbia	16.28	13.96	16.82	15.30	10.47	6.28	9.21	9.99	16.29	14.67
Florida	15.51	14.55	11.77	11.49	9.43	9.81	11.69	10.25	13.74	13.08
Georgia	14.01	14.87	11.27	12.77	7.19	9.79	9.40	10.91	11.58	12.96
Maryland	16.96	14.55	12.45	13.12	9.81	10.57	11.44	11.18	14.29	13.58
North Carolina	14.09	12.64	10.34	9.19	8.04	7.29	10.12	7.96	11.56	10.30
South Carolina	14.52	14.50	10.74	11.17	7.06	7.57	--	--	11.13	11.32
Virginia	14.79	14.58	8.56	10.63	9.07	8.56	9.02	10.86	10.73	11.63
West Virginia	14.38	14.03	10.69	10.66	7.29	6.87	--	--	10.12	9.80
East South Central	12.99	13.65	12.04	12.79	6.73	7.82	--	--	10.90	11.62
Alabama	14.83	15.48	12.97	13.90	7.04	8.47	--	--	11.70	12.59
Kentucky	12.43	13.48	11.66	12.30	6.47	8.02	--	--	10.03	11.08
Mississippi	13.05	13.02	12.04	12.40	7.11	7.10	--	--	11.14	11.04
Tennessee	11.85	12.69	11.64	12.51	6.32	7.20	--	--	10.67	11.47
West South Central	13.89	14.52	9.59	10.21	7.34	7.77	7.93	7.08	10.64	11.03
Arkansas	12.67	13.21	10.35	10.79	7.19	8.27	15.47	14.81	10.16	10.85
Louisiana	11.39	14.26	9.72	12.79	5.38	8.28	10.52	13.78	8.79	11.49
Oklahoma	13.25	14.20	10.22	11.58	6.63	7.59	--	--	10.26	11.33
Texas	14.58	14.75	9.42	9.61	8.00	7.59	7.77	6.59	11.13	10.91
Mountain	14.39	13.28	11.63	11.18	8.26	8.69	9.61	11.29	11.66	11.30
Arizona	14.39	13.27	12.08	11.02	8.00	8.71	10.51	10.20	12.57	11.78
Colorado	15.03	15.00	12.59	12.68	8.97	9.31	8.20	10.89	12.44	12.65
Idaho	11.60	10.47	9.03	8.22	7.61	7.08	--	--	9.25	8.42
Montana	13.18	11.70	12.26	10.61	6.97	9.61	--	--	10.77	10.65
Nevada	16.94	13.77	12.73	12.96	12.11	11.28	13.01	10.27	14.03	12.79
New Mexico	15.25	14.98	11.69	12.01	6.26	7.47	--	--	10.34	11.02
Utah	11.85	11.38	9.23	8.94	7.10	8.27	12.33	12.51	9.52	9.65
Wyoming	12.64	11.94	10.15	9.63	7.28	7.21	--	--	8.64	8.44
Pacific Contiguous	24.30	21.91	22.80	20.42	14.69	14.07	14.53	15.76	21.52	19.63
California	29.99	25.96	27.34	24.20	20.72	19.30	15.18	16.71	27.03	24.04
Oregon	13.13	11.78	10.48	9.33	7.23	7.41	11.28	10.77	10.19	9.40
Washington	11.38	10.60	10.01	9.49	6.40	6.72	10.20	10.32	9.55	9.17
Pacific Noncontiguous	34.91	37.26	29.84	32.65	28.44	32.98	--	--	30.91	34.16
Alaska	24.50	23.18	20.98	20.17	16.68	15.65	--	--	21.05	19.94
Hawaii	41.52	45.59	37.23	42.49	32.76	39.75	--	--	36.75	42.39
U.S. Total	16.29	16.19	13.25	13.28	8.53	9.06	14.20	12.57	13.25	13.31

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 2022 are final. Values for 2023 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 September 2023 and 2022 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD
New England	29.02	24.27	19.22	18.03	15.74	15.03	12.55	11.20	22.87	20.27
Connecticut	30.59	24.79	20.10	18.55	15.49	15.08	20.37	17.71	24.63	21.19
Maine	27.14	22.42	17.78	15.54	12.11	11.29	--	--	20.70	17.60
Massachusetts	29.67	25.28	19.27	18.57	17.82	17.00	7.28	7.15	23.12	20.98
New Hampshire	29.18	23.98	20.65	18.13	15.75	15.01	--	--	23.50	20.21
Rhode Island	27.02	22.19	16.87	16.02	19.05	17.64	16.90	17.52	21.27	18.79
Vermont	20.57	19.76	17.72	17.16	11.29	11.87	--	--	17.32	16.88
Middle Atlantic	19.60	18.14	15.43	15.17	7.93	8.45	14.90	12.91	15.49	14.96
New Jersey	17.79	16.81	14.26	13.88	12.15	12.43	13.29	13.08	15.53	14.97
New York	22.16	21.77	18.12	18.22	6.96	7.59	15.88	13.87	18.35	18.30
Pennsylvania	18.14	15.45	11.26	10.57	7.71	8.20	10.10	8.11	12.59	11.65
East North Central	16.20	15.18	11.99	11.56	8.08	8.23	6.91	7.58	12.09	11.72
Illinois	15.91	15.39	11.50	11.35	8.42	8.64	6.85	7.20	12.02	11.92
Indiana	14.98	14.24	12.62	12.50	8.36	8.40	12.94	12.51	11.61	11.37
Michigan	18.70	17.82	13.31	12.50	8.19	8.32	13.49	12.19	13.65	13.21
Ohio	15.35	13.67	10.71	10.35	7.25	7.49	3.81	9.72	11.12	10.60
Wisconsin	16.78	15.64	12.74	11.91	8.70	8.63	16.94	17.08	12.70	12.04
West North Central	13.20	12.77	10.69	10.57	7.91	7.93	10.99	10.51	10.68	10.53
Iowa	13.38	13.43	10.69	10.87	7.20	7.39	--	--	9.71	9.91
Kansas	13.70	13.95	11.23	11.50	8.21	8.17	--	--	11.28	11.45
Minnesota	14.60	14.33	12.54	12.40	9.32	9.30	12.55	12.44	12.30	12.13
Missouri	12.99	11.93	10.47	9.68	8.16	7.81	9.75	9.03	11.26	10.43
Nebraska	11.33	10.88	9.26	8.91	7.57	7.27	--	--	9.27	8.91
North Dakota	11.03	11.10	7.79	8.60	6.99	7.31	--	--	7.99	8.52
South Dakota	12.26	12.14	10.05	10.23	8.04	8.06	--	--	10.46	10.47
South Atlantic	14.53	13.37	11.04	10.76	7.73	7.79	10.23	9.18	12.06	11.45
Delaware	15.42	13.21	11.82	10.72	8.01	8.76	--	--	12.79	11.53
District of Columbia	16.03	13.86	16.91	15.43	10.87	7.63	9.84	8.00	16.38	14.73
Florida	15.20	13.84	11.83	11.12	9.63	9.05	11.31	10.15	13.51	12.46
Georgia	13.88	14.05	11.39	12.34	7.16	8.96	7.65	9.94	11.49	12.29
Maryland	16.26	14.13	12.88	12.35	9.84	9.92	11.09	9.02	14.24	13.02
North Carolina	13.08	11.50	9.73	8.64	7.25	6.51	8.66	7.41	10.72	9.52
South Carolina	14.12	13.50	10.69	10.77	6.87	7.07	--	--	10.85	10.69
Virginia	14.48	13.11	9.31	9.50	8.94	7.73	10.57	10.59	11.05	10.57
West Virginia	14.05	13.15	10.94	10.30	7.19	6.64	--	--	10.22	9.64
East South Central	13.09	12.87	12.23	12.15	6.85	7.16	--	--	10.91	10.87
Alabama	14.56	14.26	13.14	13.14	7.12	7.70	--	--	11.52	11.61
Kentucky	12.42	12.73	11.55	11.68	6.72	7.36	--	--	10.09	10.41
Mississippi	13.39	12.28	12.54	11.66	7.16	6.60	--	--	11.19	10.29
Tennessee	12.21	12.15	11.86	11.99	6.42	6.55	--	--	10.81	10.87
West South Central	13.54	13.18	9.30	9.54	6.58	7.19	7.56	7.07	9.90	10.14
Arkansas	12.26	12.04	10.35	10.22	6.95	7.39	14.92	16.20	9.82	9.93
Louisiana	11.52	12.78	10.33	11.66	5.93	7.34	11.00	11.90	8.93	10.24
Oklahoma	12.35	12.45	9.50	10.40	6.44	6.92	--	--	9.54	10.11
Texas	14.24	13.49	9.02	9.06	6.72	7.16	7.35	6.79	10.15	10.14
Mountain	13.71	12.75	11.08	10.37	7.94	7.47	10.51	10.46	11.17	10.45
Arizona	13.90	13.04	11.78	10.90	8.00	7.83	10.13	9.73	12.17	11.40
Colorado	14.30	14.11	11.79	11.51	8.63	8.60	9.40	9.71	11.84	11.70
Idaho	10.92	10.34	8.75	8.26	7.34	6.84	--	--	9.02	8.48
Montana	12.34	11.08	11.96	10.31	7.91	6.77	--	--	10.88	9.53
Nevada	16.90	13.45	12.07	9.96	10.90	8.28	12.91	9.34	13.47	10.74
New Mexico	14.15	13.85	11.01	11.09	5.91	6.55	--	--	9.74	10.08
Utah	11.25	10.91	8.57	8.43	7.07	6.68	12.32	12.29	9.12	8.82
Wyoming	11.38	11.13	9.73	9.58	6.91	6.86	--	--	8.34	8.23
Pacific Contiguous	21.91	19.93	20.00	18.23	13.14	12.14	12.41	13.14	19.28	17.52
California	29.06	25.86	24.05	21.75	18.80	16.98	12.72	13.76	24.87	22.31
Oregon	12.61	11.41	10.29	9.31	7.15	6.70	11.34	10.36	10.21	9.18
Washington	10.94	10.25	10.02	9.46	6.36	6.04	10.38	10.04	9.57	8.99
Pacific Noncontiguous	34.31	34.40	30.31	30.24	30.33	30.89	--	--	31.58	31.77
Alaska	23.75	23.18	20.71	20.03	18.43	18.58	--	--	21.20	20.75
Hawaii	42.28	42.53	39.25	39.47	35.16	35.82	--	--	38.58	39.00
U.S. Total	15.97	14.92	12.79	12.38	8.13	8.30	12.73	11.59	12.80	12.33

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 2022 are final. Values for 2023 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:
2013 - September 2023**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2013	127,777,153	17,679,562	831,790	75	146,288,580
2014	128,680,416	17,853,995	839,212	79	147,373,702
2015	129,811,718	17,985,690	835,536	78	148,633,022
2016	131,068,760	18,148,353	838,059	86	150,055,258
2017	132,579,747	18,359,427	840,329	86	151,779,589
2018	133,893,321	18,605,393	840,321	83	153,339,118
2019	135,249,616	18,694,240	954,222	83	154,898,161
2020	136,682,001	18,848,813	992,311	83	156,523,208
2021	138,308,772	19,102,304	1,022,212	82	158,433,370
2022	139,854,178	19,257,529	1,049,983	86	160,161,776
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	138,694,350	19,145,510	1,018,257	83	158,858,200
February	138,676,166	19,081,239	1,009,083	84	158,766,572
March	140,257,849	19,352,519	1,033,938	87	160,644,393
April	139,134,445	19,174,040	1,031,667	84	159,340,236
May	139,712,967	19,248,194	1,048,800	84	160,010,045
June	140,050,386	19,313,913	1,068,161	85	160,432,545
July	139,632,048	19,233,742	1,063,023	85	159,928,898
August	140,549,888	19,319,344	1,080,715	84	160,950,031
Sept	140,218,329	19,290,292	1,073,550	84	160,582,255
October	140,334,114	19,294,667	1,059,659	84	160,688,524
November	140,228,398	19,291,427	1,047,225	82	160,567,132
December	140,760,019	19,343,829	1,064,970	83	161,168,901
Year 2023					
January	140,160,622	19,289,178	1,064,974	81	160,514,855
February	139,611,057	19,188,722	1,056,440	80	159,856,299
March	140,959,184	19,374,849	1,072,433	81	161,406,547
April	139,823,297	19,151,769	1,059,778	81	160,034,925
May	140,791,294	19,348,969	1,089,015	80	161,229,358
June	140,955,330	19,362,003	1,096,944	81	161,414,358
July	140,708,682	19,325,933	1,090,062	82	161,124,759
August	141,680,588	19,371,824	1,108,708	82	162,161,202
Sept	140,885,018	19,336,543	1,091,596	82	161,313,239
Rolling 12 Months Ending in September					
2022	139,446,557	19,235,499	1,042,918	84	159,725,058
2023	140,574,800	19,306,643	1,075,150	82	160,956,675

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 2022 and prior years are final. Values for 2023 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:
September 2023 and 2022**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	6,540,948	6,619,186	938,952	937,826	21,509	21,765	6	6	7,501,415	7,578,783
Connecticut	1,535,197	1,535,824	153,297	156,392	3,813	3,986	3	3	1,692,310	1,696,205
Maine	721,450	741,629	108,204	110,093	2,017	2,163	0	0	831,671	853,885
Massachusetts	2,863,176	2,922,571	443,455	438,057	10,678	10,602	2	2	3,317,311	3,371,232
New Hampshire	645,945	644,087	111,169	111,273	3,127	3,164	0	0	760,241	758,524
Rhode Island	454,360	453,367	60,592	60,243	1,624	1,597	1	1	516,577	515,208
Vermont	320,820	321,708	62,235	61,768	250	253	0	0	383,305	383,729
Middle Atlantic	16,609,088	16,527,349	2,464,549	2,428,200	34,149	34,211	20	21	19,107,806	18,989,781
New Jersey	3,703,413	3,684,170	539,499	532,782	11,189	11,346	7	6	4,254,108	4,228,304
New York	7,393,254	7,336,278	1,192,084	1,164,034	7,162	7,234	8	8	8,592,508	8,507,554
Pennsylvania	5,512,421	5,506,901	732,966	731,384	15,798	15,631	5	7	6,261,190	6,253,923
East North Central	20,815,823	20,716,378	2,593,251	2,553,982	55,294	55,344	10	11	23,464,378	23,325,715
Illinois	5,429,238	5,375,461	663,193	634,831	5,823	5,501	3	3	6,098,257	6,015,796
Indiana	2,969,284	2,993,337	374,837	371,600	19,103	19,116	1	1	3,363,225	3,384,054
Michigan	4,507,410	4,477,564	560,321	555,281	5,668	5,715	2	2	5,073,401	5,038,562
Ohio	5,082,829	5,073,798	625,906	626,958	19,080	19,301	2	3	5,727,817	5,720,060
Wisconsin	2,827,062	2,796,218	368,994	365,312	5,620	5,711	2	2	3,201,678	3,167,243
West North Central	9,966,356	9,838,513	1,521,767	1,513,362	131,879	133,755	3	3	11,620,005	11,485,633
Iowa	1,451,894	1,429,058	250,111	245,778	8,570	9,670	0	0	1,710,575	1,684,506
Kansas	1,331,003	1,299,711	248,078	245,995	25,024	24,435	0	0	1,604,105	1,570,141
Minnesota	2,572,549	2,530,002	306,539	308,617	9,420	9,490	1	1	2,888,509	2,848,110
Missouri	2,886,741	2,884,378	400,022	400,039	9,859	9,858	2	2	3,296,624	3,294,277
Nebraska	898,741	880,941	162,085	159,187	65,317	66,779	0	0	1,126,143	1,106,907
North Dakota	395,113	393,118	77,389	76,963	9,346	9,206	0	0	481,848	479,287
South Dakota	430,315	421,305	77,543	76,783	4,343	4,317	0	0	512,201	502,405
South Atlantic	30,220,846	29,779,235	3,991,718	3,979,367	89,374	86,559	13	13	34,301,951	33,845,174
Delaware	464,416	463,211	59,816	59,426	822	870	0	0	525,054	523,507
District of Columbia	313,629	308,632	27,355	27,208	1	1	0	0	340,988	335,844
Florida	10,230,604	10,102,243	1,285,304	1,286,237	27,063	24,162	2	2	11,542,973	11,412,644
Georgia	4,750,441	4,666,875	610,091	609,740	24,682	24,505	1	1	5,385,215	5,301,121
Maryland	2,431,160	2,418,685	261,375	261,223	9,068	9,174	5	5	2,701,608	2,689,087
North Carolina	4,990,305	4,879,131	742,046	741,971	9,303	9,245	1	1	5,741,655	5,630,348
South Carolina	2,538,834	2,485,490	405,793	404,993	3,609	3,670	0	0	2,948,236	2,894,153
Virginia	3,637,395	3,591,539	448,844	438,450	3,769	3,701	1	1	4,090,009	4,033,691
West Virginia	864,062	863,429	151,094	150,119	11,057	11,231	0	0	1,026,213	1,024,779
East South Central	8,820,494	8,786,589	1,469,740	1,475,758	25,555	24,123	0	0	10,315,789	10,286,470
Alabama	2,377,676	2,338,538	381,302	382,085	7,982	7,246	0	0	2,766,960	2,727,869
Kentucky	2,023,953	2,048,796	323,680	318,418	5,781	5,404	0	0	2,353,414	2,372,618
Mississippi	1,362,843	1,332,547	243,719	245,892	10,768	10,451	0	0	1,617,330	1,588,890
Tennessee	3,056,022	3,066,708	521,039	529,363	1,024	1,022	0	0	3,578,085	3,597,093
West South Central	17,592,306	17,525,517	2,353,398	2,379,158	432,382	411,936	6	6	20,378,092	20,316,617
Arkansas	1,469,695	1,450,413	207,887	202,926	41,005	41,145	2	2	1,718,589	1,694,486
Louisiana	2,170,496	2,131,998	300,679	298,935	18,916	19,567	1	1	2,490,092	2,450,501
Oklahoma	1,873,499	1,844,629	302,614	301,474	18,942	20,124	0	0	2,195,055	2,166,227
Texas	12,078,616	12,098,477	1,542,218	1,575,823	353,519	331,100	3	3	13,974,356	14,005,403
Mountain	10,594,568	10,570,858	1,493,598	1,491,443	102,721	101,581	5	5	12,190,892	12,163,887
Arizona	3,044,019	3,020,357	343,310	341,441	7,188	7,809	2	2	3,394,519	3,369,609
Colorado	2,461,390	2,487,518	393,437	392,224	14,850	15,184	1	1	2,869,678	2,894,927
Idaho	846,665	830,996	121,842	120,196	29,590	29,420	0	0	998,097	980,612
Montana	550,870	542,492	116,427	114,985	13,888	14,000	0	0	681,185	671,477
Nevada	1,289,753	1,272,927	174,019	173,842	4,890	3,537	1	1	1,468,663	1,450,307
New Mexico	911,720	922,759	146,314	147,506	9,463	9,327	0	0	1,067,497	1,079,592
Utah	1,204,952	1,211,875	139,206	142,555	10,924	10,450	1	1	1,355,083	1,364,881
Wyoming	285,199	281,934	59,043	58,694	11,928	11,854	0	0	356,170	352,482
Pacific Contiguous	18,980,295	19,114,182	2,392,051	2,414,464	196,725	202,294	19	19	21,569,090	21,730,959
California	13,815,260	13,997,108	1,736,178	1,770,617	144,248	148,525	12	12	15,695,698	15,916,262
Oregon	1,851,285	1,830,145	249,134	244,851	25,581	26,951	2	2	2,126,002	2,101,949
Washington	3,313,750	3,286,929	406,739	398,996	26,896	26,816	5	5	3,747,390	3,712,748
Pacific Noncontiguous	744,294	740,522	117,519	116,732	2,008	1,982	0	0	863,821	859,236
Alaska	298,492	295,382	57,530	56,573	1,200	1,163	0	0	357,222	353,118
Hawaii	445,802	445,140	59,989	60,159	808	819	0	0	506,599	506,118
U.S. Total	140,885,018	140,218,329	19,336,543	19,290,292	1,091,596	1,073,550	82	84	161,313,239	160,582,255

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 2022 are final. Values for 2023 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), August 2023 to September 2023

Technology	Capacity Source	As of End of August 2023	Activity During September 2023 as Reported to EIA		As of End of September 2023	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		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
											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	144,577.2	103.6	0.0	144,680.8	103.6	3,319.9	6,717.1	1,223.4	6,947.6	0.0	0.0	1,223.4	6,947.6	145,904.2	151,622.4		
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	41.3	0.0	0.0	41.3	0.0	0.0	0.0	0.0	2,145.0	0.0	0.0	0.0	2,145.0	41.3	2,186.3		
..... Wind (Summer Capacity)	Utility Scale Facilities	144,618.5	103.6	0.0	144,722.1	103.6	3,319.9	6,717.1	1,223.4	9,092.6	0.0	0.0	1,223.4	9,092.6	145,945.5	153,808.7		
..... Solar Photovoltaic	Utility Scale Facilities	79,981.5	947.8	106.8	80,822.5	841.0	9,436.2	13,620.7	3,457.4	33,318.4	0.0	0.0	3,457.4	33,318.4	84,279.9	114,140.9		
..... Solar Thermal without Energy Storage	Utility Scale Facilities	1,074.4	0.0	0.0	1,074.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,074.4	1,074.4		
..... Solar Thermal with Energy Storage	Utility Scale Facilities	405.6	0.0	0.0	405.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	405.6	405.6		
..... Solar Subtotal	Utility Scale Facilities	81,461.5	947.8	106.8	82,302.5	841.0	9,436.2	13,620.7	3,457.4	33,318.4	0.0	0.0	3,457.4	33,318.4	85,759.9	115,620.9		
..... Conventional Hydroelectric	Utility Scale Facilities	80,058.2	0.0	2.8	80,055.4	-2.8	-12.2	-3.2	4.6	34.1	2.6	2.6	2.0	31.5	80,057.4	80,086.9		
..... Wood/Wood Waste Biomass	Utility Scale Facilities	7,778.8	0.0	0.0	7,778.8	0.0	-25.7	-38.7	0.0	0.0	55.0	63.2	-55.0	-63.2	7,723.8	7,715.6		
..... Landfill Gas	Utility Scale Facilities	1,651.3	1.8	0.0	1,653.1	1.8	-26.9	-74.3	1.6	4.6	0.0	8.0	1.6	-3.4	1,654.7	1,649.7		
..... Municipal Solid Waste	Utility Scale Facilities	2,050.6	0.0	0.0	2,050.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,050.6	2,050.6		
..... Other Waste Biomass	Utility Scale Facilities	591.7	0.0	0.0	591.7	0.0	0.0	0.0	0.0	25.8	0.0	0.0	0.0	25.8	591.7	617.5		
..... Biomass Sources Subtotal	Utility Scale Facilities	12,072.4	1.8	0.0	12,074.2	1.8	-52.6	-113.0	1.6	30.4	55.0	71.2	-53.4	-40.8	12,020.8	12,033.4		
..... Geothermal	Utility Scale Facilities	2,673.6	0.0	0.0	2,673.6	0.0	25.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	2,673.6	2,673.6		
... Renewable Sources Subtotal	Utility Scale Facilities	320,884.9	1,053.2	109.6	321,828.5	943.6	12,717.0	20,234.6	4,687.0	42,469.5	57.6	73.8	4,629.4	42,395.7	326,457.9	364,224.2		
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	294,084.2	658.9	0.0	294,743.1	658.9	6,009.6	6,020.6	0.0	1,216.9	0.0	1,413.6	0.0	-196.7	294,743.1	294,546.4		
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	131,498.3	0.0	0.0	131,498.3	0.0	891.8	1,149.6	0.0	2,116.7	0.0	938.8	0.0	1,177.9	131,498.3	132,676.2		
..... Natural Gas Steam Turbine	Utility Scale Facilities	76,041.4	0.0	1,036.0	75,005.4	-1,036.0	-2,031.4	-2,368.6	0.0	15.6	6.0	1,072.0	-6.0	-1,056.4	74,999.4	73,949.0		
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	5,701.5	0.0	0.0	5,701.5	0.0	138.1	142.5	9.1	266.2	0.0	0.0	9.1	266.2	5,710.6	5,967.7		
..... 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	347.8	0.0	0.0	347.8	0.0	1.1	18.5	0.0	14.0	0.0	0.0	0.0	14.0	347.8	361.8		
..... Natural Gas Subtotal	Utility Scale Facilities	507,783.2	658.9	1,036.0	507,406.1	-377.1	5,009.2	4,962.6	9.1	3,629.4	6.0	3,424.4	3.1	205.0	507,409.2	507,611.1		
..... Conventional Steam Coal	Utility Scale Facilities	182,222.9	0.0	0.0	182,222.9	0.0	-6,498.4	-9,607.9	0.0	13.0	485.0	3,953.6	-485.0	-3,940.6	181,737.9	178,282.3		
..... Coal Integrated Gasification Combined Cycle	Utility Scale Facilities	595.0	0.0	0.0	595.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	595.0	595.0		
..... Coal Subtotal	Utility Scale Facilities	182,817.9	0.0	0.0	182,817.9	0.0	-6,498.4	-9,607.9	0.0	13.0	485.0	3,953.6	-485.0	-3,940.6	182,332.9	178,877.3		
..... Petroleum Coke	Utility Scale Facilities	1,318.9	0.0	0.0	1,318.9	0.0	-20.0	-20.0	0.0	0.0	0.0	0.0	0.0	0.0	1,318.9	1,318.9		
..... Petroleum Liquids	Utility Scale Facilities	28,421.8	1.3	0.0	28,423.1	1.3	-1,013.1	-1,117.4	8.1	23.0	0.0	454.5	8.1	-431.5	28,431.2	27,991.6		
..... Other Gases	Utility Scale Facilities	1,725.1	0.0	0.0	1,725.1	0.0	-3.1	-8.4	0.0	0.0	0.0	0.0	0.0	0.0	1,725.1	1,725.1		
... Fossil Fuels Subtotal	Utility Scale Facilities	722,066.9	660.2	1,036.0	721,691.1	-375.8	-2,525.4	-5,791.1	17.2	3,665.7	491.0	7,832.5	-473.8	-4,166.8	721,217.3	717,524.3		
..... Hydroelectric Pumped Storage	Utility Scale Facilities	23,166.5	0.0	0.0	23,166.5	0.0	122.6	122.6	0.0	130.0	0.0	0.0	0.0	130.0	23,166.5	23,296.5		
..... 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	12,788.5	569.4	0.0	13,357.9	569.4	4,377.5	5,399.5	1,005.8	12,677.9	0.0	1.2	1,005.8	12,676.7	14,363.7	26,034.6		
... Energy Storage Subtotal	Utility Scale Facilities	36,002.0	569.4	0.0	36,571.4	569.4	4,500.1	5,522.1	1,005.8	12,807.9	0.0	1.2	1,005.8	12,806.7	37,577.2	49,378.1		
... Nuclear	Utility Scale Facilities	95,772.9	0.0	0.0	95,772.9	0.0	1,114.0	1,114.0	0.0	1,159.0	0.0	0.0	0.0	1,159.0	95,772.9	96,931.9		
... All Other	Utility Scale Facilities	1,378.2	0.0	0.0	1,378.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,378.2	1,378.2		
TOTAL	UTILITY SCALE FACILITIES	1,176,104.9	2,282.8	1,145.6	1,177,242.1	1,137.2	15,805.7	21,078.6	5,710.0	60,102.1	548.6	7,907.5	5,161.4	52,194.6	1,182,403.5	1,229,436.7		
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	45,462.8			46,190.8	728.0	6,362.8	8,208.2										
..... Estimated Total Solar Photovoltaic	All Facilities	125,444.3			127,013.3	1,569.0	15,799.0	21,828.9										
... Estimated Total Solar	All Facilities	126,924.3			128,493.3	1,569.0	15,799.0	21,828.9										

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 - September 2023**

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
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
2022	71,386.3	39,828.0	111,214.3
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	61,350.2	33,635.1	94,985.3
February	61,673.4	34,229.8	95,903.2
March	62,666.8	34,771.7	97,438.5
April	63,123.2	35,264.5	98,387.7
May	63,892.3	35,779.3	99,671.6
June	65,118.6	36,321.4	101,440.0
July	65,707.2	36,849.0	102,556.2
August	66,418.7	37,373.4	103,792.1
Sept	67,201.8	37,982.6	105,184.4
October	67,739.4	38,539.7	106,279.1
November	68,569.5	39,145.7	107,715.2
December	71,386.3	39,828.0	111,214.3
Year 2023			
January	72,382.0	40,601.2	112,983.2
February	73,135.9	41,241.3	114,377.2
March	73,756.4	41,677.8	115,434.2
April	74,636.2	42,452.8	117,089.0
May	75,703.8	43,134.8	118,838.6
June	77,302.8	43,862.2	121,165.0
July	79,299.6	44,471.3	123,770.9
August	79,981.5	45,462.8	125,444.3
Sept	80,822.5	46,190.8	127,013.3

Values for 2022 are final. Values for 2023 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 - September 2023

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
2022	26,294.0	11,212.3	2,321.7	39,828.0
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	21,342.5	10,082.9	2,209.6	33,635.1
February	21,777.1	10,239.2	2,213.5	34,229.8
March	22,187.6	10,363.3	2,220.8	34,771.7
April	22,604.0	10,429.8	2,230.8	35,264.5
May	22,993.1	10,550.3	2,235.8	35,779.3
June	23,394.8	10,681.1	2,245.6	36,321.4
July	23,816.8	10,780.8	2,251.4	36,849.0
August	24,279.7	10,833.1	2,260.6	37,373.4
Sept	24,735.6	10,976.6	2,270.5	37,982.6
October	25,241.5	11,003.9	2,294.3	38,539.7
November	25,728.0	11,117.3	2,300.5	39,145.7
December	26,294.0	11,212.3	2,321.7	39,828.0
Year 2023				
January	26,887.8	11,350.0	2,363.4	40,601.2
February	27,346.8	11,527.7	2,366.7	41,241.3
March	27,807.7	11,484.2	2,386.0	41,677.8
April	28,381.8	11,631.1	2,439.9	42,452.8
May	28,945.8	11,747.7	2,441.3	43,134.8
June	29,592.8	11,815.5	2,453.9	43,862.2
July	30,115.8	11,892.4	2,463.1	44,471.3
August	30,945.5	12,043.2	2,474.1	45,462.8
Sept	31,454.5	12,243.7	2,492.7	46,190.8

Values for 2022 are final. Values for 2023 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, September 2023 and 2022 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
	New England	7,075.4	6,924.2	22,574.4	22,914.9	1,863.4	1,830.4	330.0	268.1	3,356.1	3,356.1	22.0	22.0	35,221.3
Connecticut	536.7	518.9	7,284.3	7,417.9	29.4	29.4	1.6	1.6	2,108.0	2,108.0	0.0	0.0	9,960.0	10,075.8
Maine	2,568.6	2,502.5	2,306.2	2,516.4	0.0	0.0	46.3	46.3	0.0	0.0	22.0	22.0	4,943.1	5,087.2
Massachusetts	1,936.1	1,890.9	8,807.4	8,804.1	1,834.0	1,801.0	258.2	206.3	0.0	0.0	0.0	0.0	12,835.7	12,702.3
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	385.2	367.5	1,780.1	1,780.1	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	2,168.3	2,150.6
Vermont	704.7	700.3	126.0	126.0	0.0	0.0	20.9	10.9	0.0	0.0	0.0	0.0	851.6	837.2
Middle Atlantic	13,575.4	12,749.1	71,472.2	73,161.4	3,343.2	3,343.2	336.7	236.7	15,854.5	15,854.5	11.2	11.2	104,593.2	105,356.1
New Jersey	1,319.5	1,273.0	11,501.4	11,524.3	420.0	420.0	69.7	42.7	3,456.7	3,456.7	11.2	11.2	16,778.5	16,727.9
New York	9,091.7	8,480.9	25,772.8	26,256.3	1,408.8	1,408.8	212.4	139.4	3,304.6	3,304.6	0.0	0.0	39,790.3	39,590.0
Pennsylvania	3,164.2	2,995.2	34,198.0	35,380.8	1,514.4	1,514.4	54.6	54.6	9,093.2	9,093.2	0.0	0.0	48,024.4	49,038.2
East North Central	23,141.4	20,573.3	103,886.8	106,286.9	2,185.6	2,185.6	177.8	165.5	18,215.6	18,215.6	169.8	169.8	147,577.0	147,596.7
Illinois	8,515.5	8,020.4	24,577.0	24,959.0	0.0	0.0	96.1	96.1	11,567.6	11,567.6	78.0	78.0	44,834.2	44,721.1
Indiana	4,861.9	4,216.3	22,150.8	22,552.3	0.0	0.0	36.0	36.0	0.0	0.0	88.0	88.0	27,136.7	26,892.6
Michigan	5,073.2	4,465.1	19,824.0	22,043.7	2,185.6	2,185.6	1.3	1.3	3,318.0	3,318.0	3.8	3.8	30,405.9	32,017.5
Ohio	2,321.0	1,810.6	23,875.3	23,470.4	0.0	0.0	38.8	26.8	2,134.0	2,134.0	0.0	0.0	28,369.1	27,441.8
Wisconsin	2,369.8	2,060.9	13,259.7	13,261.5	0.0	0.0	5.6	5.3	1,196.0	1,196.0	0.0	0.0	16,831.1	16,523.7
West North Central	44,263.4	43,029.4	57,404.6	58,610.5	657.0	657.0	31.8	25.8	4,842.0	4,842.0	12.2	12.2	107,211.0	107,176.9
Iowa	13,093.4	12,597.5	9,438.2	9,659.2	0.0	0.0	8.9	3.9	0.0	0.0	0.0	0.0	22,540.5	22,260.6
Kansas	8,290.6	8,290.6	8,913.2	8,910.2	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	18,429.6	18,426.6
Minnesota	6,689.6	6,341.5	10,121.2	10,274.1	0.0	0.0	16.0	16.0	1,657.0	1,657.0	6.1	6.1	18,489.9	18,294.7
Missouri	3,038.2	3,028.2	16,255.7	17,085.7	657.0	657.0	2.2	2.2	1,190.0	1,190.0	0.0	0.0	21,143.1	21,963.1
Nebraska	3,854.1	3,554.1	6,167.0	6,172.0	0.0	0.0	3.9	2.9	770.0	770.0	0.0	0.0	10,795.0	10,499.0
North Dakota	4,845.9	4,845.9	4,557.8	4,557.8	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	9,409.0	9,409.0
South Dakota	4,451.6	4,371.6	1,951.5	1,951.5	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	6,403.9	6,323.9
South Atlantic	35,358.7	31,837.7	154,383.3	155,415.9	8,180.4	8,100.4	767.4	707.5	25,866.8	24,752.8	366.9	366.9	224,923.5	221,181.2
Delaware	105.7	55.7	3,215.9	3,215.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,321.6	3,271.6
District of Columbia	31.6	30.5	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.2	51.1
Florida	8,746.2	8,987.8	55,992.1	55,184.1	0.0	0.0	558.2	532.6	3,666.0	3,666.0	312.9	312.9	69,275.4	66,683.4
Georgia	6,876.6	6,276.5	23,532.2	23,532.2	1,897.4	1,897.4	81.2	81.2	5,175.0	4,061.0	0.0	0.0	37,562.4	35,848.3
Maryland	1,472.7	1,337.0	8,760.3	8,777.7	0.0	0.0	7.7	6.2	1,707.8	1,707.8	0.0	0.0	11,948.5	11,828.7
North Carolina	8,951.3	8,705.8	21,342.6	21,342.6	86.0	86.0	58.3	36.0	5,149.6	5,149.6	54.0	54.0	35,641.8	35,374.0
South Carolina	3,258.2	2,997.5	11,665.6	11,691.8	2,956.0	2,876.0	4.0	4.0	6,600.4	6,600.4	0.0	0.0	24,484.2	24,169.7
Virginia	4,717.2	4,247.7	16,080.0	17,877.0	3,241.0	3,241.0	10.5	0.0	3,568.0	3,568.0	0.0	0.0	27,616.7	28,933.7
West Virginia	1,199.2	1,199.2	13,774.0	13,774.0	0.0	0.0	47.5	47.5	0.0	0.0	0.0	0.0	15,020.7	15,020.7
East South Central	9,766.6	9,321.6	62,260.3	60,425.4	1,616.3	1,616.3	2.3	1.0	11,375.9	11,375.9	1.4	1.4	85,022.8	82,741.6
Alabama	4,537.5	4,330.7	20,389.1	19,125.2	0.0	0.0	1.0	1.0	5,452.7	5,452.7	0.0	0.0	30,380.3	28,909.6
Kentucky	1,291.7	1,239.7	16,343.5	16,343.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17,635.2	17,583.2
Mississippi	623.0	621.7	13,243.9	12,672.9	0.0	0.0	1.3	0.0	1,400.5	1,400.5	1.4	1.4	15,270.1	14,696.5
Tennessee	3,314.4	3,129.5	12,283.8	12,283.8	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,737.2	21,552.3
West South Central	70,032.7	63,711.2	141,588.0	142,291.9	288.0	288.0	3,184.3	1,690.8	8,934.0	8,934.0	548.2	548.2	224,575.2	217,464.1
Arkansas	1,821.9	1,821.9	11,257.8	11,257.8	30.0	30.0	22.0	22.0	1,822.0	1,822.0	0.0	0.0	14,953.7	14,953.7
Louisiana	758.6	688.6	21,546.6	21,519.7	0.0	0.0	0.5	0.5	2,132.0	2,132.0	329.2	329.2	24,766.9	24,670.0
Oklahoma	13,113.1	12,561.4	19,790.9	19,823.9	258.0	258.0	10.0	10.0	0.0	0.0	0.0	0.0	33,172.0	32,653.3
Texas	54,339.1	48,639.3	88,992.7	89,690.5	0.0	0.0	3,151.8	1,658.3	4,980.0	4,980.0	219.0	219.0	151,682.6	145,187.1
Mountain	40,128.3	37,428.6	58,285.1	58,473.0	806.7	797.1	1,530.8	311.0	3,937.0	3,937.0	123.7	123.7	104,811.6	101,070.4
Arizona	6,663.3	6,264.1	17,587.5	17,587.5	216.3	216.3	803.0	97.0	3,937.0	3,937.0	0.0	0.0	29,207.1	28,101.9
Colorado	7,745.7	6,949.5	10,498.8	10,660.0	590.4	580.8	240.2	10.2	0.0	0.0	9.1	9.1	19,084.2	18,209.6
Idaho	4,137.0	3,975.7	1,212.5	1,244.8	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,364.3	5,235.3
Montana	4,484.0	3,953.7	2,072.0	2,072.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	6,596.0	6,065.7
Nevada	5,688.3	5,255.0	8,081.4	8,079.6	0.0	0.0	248.8	200.0	0.0	0.0	6.5	6.5	14,025.0	13,541.1
New Mexico	5,643.3	5,350.4	4,848.0	4,849.0	0.0	0.0	237.8	2.8	0.0	0.0	0.7	0.7	10,729.8	10,202.9
Utah	2,360.7	2,274.2	7,311.5	7,306.7	0.0	0.0	1.0	1.0	0.0	0.0	40.2	40.2	9,713.4	9,622.1
Wyoming	3,406.0	3,406.0	6,673.4	6,673.4	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	10,091.8	10,091.8
Pacific Contiguous	77,083.8	74,686.4	45,874.6	45,739.5	4,225.9	4,225.9	6,775.2	4,390.4	3,391.0	3,391.0	94.4	94.4	137,444.9	132,527.6
California	38,124.3	36,093.0	38,060.0	37,926.9	3,911.9	3,911.9	6,734.2	4,349.4	2,240.0	2,240.0	94.4	94.4	89,164.8	84,615.6
Oregon	13,613.4	13,431.3	3,755.0	3,755.0	0.0	0.0	35.0	35.0	0.0	0.0	0.0	0.0	17,403.4	17,221.3
Washington	25,346.1	25,162.1	4,059.6	4,057.6	314.0	314.0	6.0	6.0	1,151.0	1,151.0	0.0	0.0	30,876.7	30,690.7
Pacific Noncontiguous	1,402.8	1,332.4	4,161.8	4,162.8	0.0	0.0	268.6	208.6	0.0	0.0	28.4	28.4	5,861.6	5,732.2
Alaska	547.2	542.8	2,181.9	2,182.9	0.0	0.0	93.7	93.7	0.0	0.0	0.9	0.9	2,823.7	2,820.3
Hawaii	855.6	789.6	1,979.9	1,979.9	0.0	0.0	174.9	114.9	0.0	0.0	27.5	27.5	3,037.9	2,911.9
U.S. Total	321,828.5	301,593.9	721,691.1	727,482.2	23,166.5	23,043.9	13,404.9	8,005.4	95,772.9	94,658.9	1,378.2	1,378.2	1,177,242.1	1,156,162.5

NM = Not meaningful due to large relative standard error.
Values for 2022 are final. Values for 2023 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, September 2023 and 2022 (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		Estimated Total Solar	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	1,575.7	1,557.7	2,296.1	2,164.9	0.0	0.0	1,950.2	1,950.2	1,253.4	1,253.4	0.0	0.0	7,073.4	6,924.2	4,874.2	4,147.8	7,170.3	6,312.7	7,170.3	6,312.7
Connecticut	5.0	5.0	272.9	255.1	0.0	0.0	119.2	119.2	139.6	139.6	0.0	0.0	536.7	518.9	940.3	770.1	1,213.2	1,025.2	1,213.2	1,025.2
Maine	1,029.5	1,008.6	324.7	278.6	0.0	0.0	725.8	725.8	488.6	488.6	0.0	0.0	2,568.6	2,502.5	481.1	272.0	805.8	550.6	805.8	550.6
Massachusetts	101.8	101.8	1,289.6	1,244.4	0.0	0.0	267.2	267.2	277.5	277.5	0.0	0.0	1,936.1	1,890.9	2,626.1	2,416.4	3,915.7	3,660.8	3,915.7	3,660.8
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	224.8	172.1	227.2	174.5	227.2	174.5
Rhode Island	77.3	77.3	265.1	247.4	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	385.2	367.5	427.6	358.5	692.7	605.9	692.7	605.9
Vermont	150.2	150.2	141.4	137.0	0.0	0.0	331.3	331.3	81.8	81.8	0.0	0.0	704.7	700.3	174.2	158.7	315.6	295.7	315.6	295.7
Middle Atlantic	4,082.2	3,657.4	2,892.2	2,489.1	0.0	0.0	5,505.2	5,505.2	1,095.8	1,097.4	0.0	0.0	13,575.4	12,749.1	6,159.3	5,379.0	9,051.5	7,868.1	9,051.5	7,868.1
New Jersey	7.6	7.6	1,108.9	1,062.4	0.0	0.0	12.3	12.3	190.7	190.7	0.0	0.0	1,319.5	1,273.0	2,511.2	2,269.8	3,620.1	3,332.2	3,620.1	3,332.2
New York	2,527.0	2,189.8	1,546.1	1,270.9	0.0	0.0	4,563.3	4,563.3	455.3	456.9	0.0	0.0	9,091.7	8,480.9	2,964.8	2,524.4	4,410.9	3,795.3	4,410.9	3,795.3
Pennsylvania	1,547.8	1,460.0	237.2	155.8	0.0	0.0	929.6	929.6	449.8	449.8	0.0	0.0	3,164.2	2,995.2	793.3	584.8	1,020.5	740.6	1,020.5	740.6
East North Central	16,463.6	15,558.6	4,763.1	3,044.4	0.0	0.0	876.7	876.7	1,038.0	1,038.0	0.0	0.0	23,141.4	20,573.3	2,071.5	1,682.5	6,834.6	4,726.9	6,834.6	4,726.9
Illinois	7,494.9	7,034.6	931.9	897.1	0.0	0.0	32.9	32.9	55.8	55.8	0.0	0.0	8,515.5	8,020.4	1,075.9	894.4	2,007.8	1,791.5	2,007.8	1,791.5
Indiana	3,453.1	3,453.1	1,265.1	619.5	0.0	0.0	71.6	71.6	72.1	72.1	0.0	0.0	4,861.9	4,216.3	245.8	197.9	1,510.9	817.4	1,510.9	817.4
Michigan	3,592.1	3,239.0	727.7	472.7	0.0	0.0	264.1	264.1	489.3	489.3	0.0	0.0	5,073.2	4,465.1	219.1	181.9	946.8	654.6	946.8	654.6
Ohio	1,097.3	1,097.3	1,047.2	481.2	0.0	0.0	101.9	101.9	74.6	130.2	0.0	0.0	2,321.0	1,810.6	324.9	251.9	1,372.1	733.1	1,372.1	733.1
Wisconsin	826.2	734.6	791.2	573.9	0.0	0.0	406.2	406.2	346.2	346.2	0.0	0.0	2,369.8	2,060.9	205.7	156.4	996.9	730.3	996.9	730.3
West North Central	38,753.4	37,724.6	1,751.7	1,543.3	0.0	0.0	3,363.9	3,364.6	393.7	396.9	0.0	0.0	44,263.4	43,029.4	1,107.5	795.7	2,859.2	2,339.0	2,859.2	2,339.0
Iowa	12,602.9	12,108.5	260.5	259.0	0.0	0.0	209.4	209.4	20.6	20.6	0.0	0.0	13,093.4	12,597.5	268.6	209.6	529.1	468.6	529.1	468.6
Kansas	8,238.1	8,238.1	36.5	36.5	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	8,290.6	8,290.6	81.0	54.8	117.5	91.3	117.5	91.3
Minnesota	4,928.7	4,694.3	1,232.3	1,115.4	0.0	0.0	211.3	212.0	316.6	319.8	0.0	0.0	6,689.6	6,341.5	254.0	174.5	1,486.3	1,289.9	1,486.3	1,289.9
Missouri	2,374.9	2,374.9	100.8	90.8	0.0	0.0	548.5	548.5	14.0	14.0	0.0	0.0	3,038.2	3,028.2	469.7	330.4	570.5	421.2	570.5	421.2
Nebraska	3,518.3	3,218.3	40.6	40.6	0.0	0.0	279.7	279.7	15.5	15.5	0.0	0.0	3,854.1	3,554.1	30.7	23.8	71.3	64.4	71.3	64.4
North Dakota	4,323.3	4,323.3	0.0	0.0	0.0	0.0	510.0	510.0	12.6	12.6	0.0	0.0	4,845.9	4,845.9	1.5	1.2	1.5	1.2	1.5	1.2
South Dakota	2,767.2	2,767.2	81.0	10.0	0.0	0.0	1,598.0	1,598.0	5.4	5.4	0.0	0.0	4,451.6	4,371.6	2.0	1.5	83.0	2.5	83.0	2.5
South Atlantic	1,267.2	1,267.2	22,989.9	19,421.2	0.0	0.0	7,142.6	7,139.6	3,959.0	4,009.7	0.0	0.0	35,358.7	31,837.7	5,341.5	3,954.5	28,331.4	23,375.7	28,331.4	23,375.7
Delaware	2.0	2.0	89.5	39.5	0.0	0.0	0.0	0.0	14.2	14.2	0.0	0.0	105.7	65.7	129.9	107.5	219.4	147.0	219.4	147.0
District of Columbia	0.0	0.0	19.6	18.5	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	31.6	30.5	134.0	113.3	153.6	131.8	153.6	131.8
Florida	0.0	0.0	7,561.5	5,803.1	0.0	0.0	43.5	43.5	1,141.2	1,141.2	0.0	0.0	8,746.2	6,987.8	2,268.9	1,574.0	9,830.4	7,377.1	9,830.4	7,377.1
Georgia	0.0	0.0	3,880.0	3,281.7	0.0	0.0	1,985.0	1,985.0	1,011.6	1,009.8	0.0	0.0	6,876.6	6,276.5	311.9	231.9	4,191.9	3,513.6	4,191.9	3,513.6
Maryland	190.0	190.0	552.8	417.1	0.0	0.0	590.0	590.0	139.9	139.9	0.0	0.0	1,472.7	1,337.0	1,020.5	955.2	1,573.3	1,372.3	1,573.3	1,372.3
North Carolina	208.0	208.0	6,347.6	6,052.6	0.0	0.0	2,011.7	2,008.7	384.0	436.5	0.0	0.0	8,951.3	8,705.8	470.0	373.9	6,817.6	6,426.5	6,817.6	6,426.5
South Carolina	0.0	0.0	1,502.5	1,241.8	0.0	0.0	1,305.0	1,305.0	450.7	450.7	0.0	0.0	3,258.2	2,997.5	376.3	332.9	1,878.8	1,574.7	1,878.8	1,574.7
Virginia	12.0	12.0	3,036.4	2,566.9	0.0	0.0	866.6	866.6	802.2	802.2	0.0	0.0	4,717.2	4,247.7	596.7	241.9	3,633.1	2,808.8	3,633.1	2,808.8
West Virginia	855.2	855.2	0.0	0.0	0.0	0.0	340.8	340.8	3.2	3.2	0.0	0.0	1,199.2	1,199.2	33.3	23.9	33.3	23.9	33.3	23.9
East South Central	29.1	29.1	1,533.3	1,110.3	0.0	0.0	7,037.8	7,037.8	1,166.4	1,144.4	0.0	0.0	9,766.6	9,321.8	166.7	142.9	1,700.0	1,253.2	1,700.0	1,253.2
Alabama	0.0	0.0	601.1	421.1	0.0	0.0	3,291.8	3,291.8	844.6	617.8	0.0	0.0	4,537.5	4,330.7	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	79.8	27.8	0.0	0.0	1,137.4	1,137.4	74.5	74.5	0.0	0.0	1,291.7	1,239.7	88.8	69.3	168.6	97.1	168.6	97.1
Mississippi	0.0	0.0	320.6	319.3	0.0	0.0	0.0	0.0	302.4	302.4	0.0	0.0	623.0	621.7	14.4	13.8	335.0	333.1	335.0	333.1
Tennessee	29.1	29.1	531.8	342.1	0.0	0.0	2,608.6	2,608.6	144.9	149.7	0.0	0.0	3,314.4	3,129.5	49.1	46.6	580.9	388.7	580.9	388.7
West South Central	52,380.4	48,638.6	13,548.2	10,956.3	0.0	0.0	3,016.1	3,016.1	1,088.0	1,100.2	0.0	0.0	70,032.7	63,711.2	3,339.8	2,223.6	16,888.0	13,179.9	16,888.0	13,179.9
Arkansas	0.0	0.0	329.7	329.7	0.0	0.0	1,265.2	1,265.2	227.0	227.0	0.0	0.0	1,821.9	1,821.9	264.3	152.2	594.0	481.9	594.0	481.9
Louisiana	0.0	0.0	144.5	74.5	0.0	0.0	192.0	192.0	422.1	422.1	0.0	0.0	758.6	688.6	188.8	162.5	333.3	237.0	333.3	237.0
Oklahoma	12,145.7	11,594.0	47.5	47.5	0.0	0.0	843.7	843.7	76.2	76.2	0.0	0.0	13,113.1	12,561.4	99.6	52.7	147.1	100.2	147.1	100.2
Texas	40,234.7	37,044.6	13,026.5	10,504.6	0.0	0.0	715.2	715.2	362.7	374.9	0.0	0.0	54,339.1	48,639.3	2,787.1	1,856.3	15,813.6	12,360.9	15,813.6	12,360.9
Mountain	16,394.5	15,792.7	11,732.2	9,666.4	474.2	474.2	10,607.4	10,601.6	175.7	174.4	744.3	719.3	40,128.3	37,428.6	5,419.3	4,589.5	17,151.5	14,255.9	17,625.7	14,730.1
Arizona	855.5	617.3	2,763.6	2,603.6	295.6	295.6	2,720.7	2,719.7	27.9	27.9	0.0	0.0	6,663.3	6,264.1	2,420.7	2,126.2	5,184.3	4,729.8	5,479.9	5,025.4
Colorado	5,136.2	5,136.2	1,891.1	1,094.9	0.0	0.0	699.7	699.7	28.7	28.7	0.0	0.0	7,745.7	6,949.5	993.8	812.6	2,884.9	1,907.5	2,884.9	1,907.5
Idaho	968.3	968.3	402.0	242.0	0.0	0.0	2,672.3	2,672.3	84.4	83.1	0.0	0.0	4,137.0	3,915.7	149.7	114.2	551.7	356.2	551.7	356.2
Montana	1,478.9	1,113.4	177.0	17.0	0.0	0.0	2,823.5	2,818.7	4.6	4.6	0.0									

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, September 2023 and 2022 (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	
	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022	September 2023	September 2022
New England	14,344.0	14,343.8	1,579.9	1,706.8	682.8	748.0	533.9	533.9	0.0	0.0	5,433.8	5,582.4	0.0	0.0	22,574.4	22,914.9
Connecticut	3,919.4	3,919.4	585.7	585.7	555.2	540.4	0.0	0.0	0.0	0.0	2,224.0	2,372.4	0.0	0.0	7,284.3	7,417.9
Maine	1,279.7	1,279.7	181.8	312.0	0.0	80.0	0.0	0.0	0.0	0.0	844.7	844.7	0.0	0.0	2,306.2	2,516.4
Massachusetts	6,171.2	6,171.0	796.2	792.9	102.2	102.2	0.0	0.0	0.0	0.0	1,737.8	1,738.0	0.0	0.0	8,807.4	8,804.1
New Hampshire	1,238.5	1,238.5	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	494.2	494.2	0.0	0.0	2,270.4	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	37,256.4	37,143.4	7,098.4	7,607.0	14,537.6	14,537.6	6,761.0	8,023.2	11.6	11.6	5,692.3	5,723.7	114.9	114.9	71,472.2	73,161.4
New Jersey	8,356.5	8,356.5	2,740.5	2,740.5	73.7	73.7	0.0	0.0	11.6	11.6	290.1	313.0	29.0	29.0	11,501.4	11,524.3
New York	9,910.2	9,910.2	2,459.6	2,915.7	9,330.1	9,330.1	0.0	0.0	0.0	0.0	4,072.9	4,100.3	0.0	0.0	25,772.8	26,256.3
Pennsylvania	18,989.7	18,876.7	1,898.3	1,950.8	5,133.8	5,133.8	6,761.0	8,023.2	0.0	0.0	1,329.3	1,310.4	85.9	85.9	34,198.0	35,380.8
East North Central	30,890.3	27,799.9	26,802.7	26,468.6	4,482.4	5,775.3	37,944.3	42,626.8	249.9	249.9	2,267.2	2,286.4	1,050.0	1,080.0	103,686.8	106,286.9
Illinois	5,986.4	4,772.4	10,665.4	10,351.4	373.0	1,723.0	6,855.5	7,413.5	0.0	0.0	662.2	662.2	36.5	36.5	24,577.0	24,959.0
Indiana	3,905.0	3,875.0	3,365.8	3,365.8	829.0	828.1	13,410.1	13,842.5	0.0	0.0	95.8	95.8	545.1	545.1	22,150.8	22,552.3
Michigan	6,864.8	6,864.8	3,896.0	3,896.0	2,540.3	2,540.3	5,801.9	8,005.6	47.2	47.2	423.8	439.8	250.0	250.0	19,824.0	22,043.7
Ohio	10,611.2	8,794.8	5,686.6	5,604.9	102.2	102.2	6,807.5	8,097.5	144.3	144.3	505.1	508.3	218.4	248.4	23,875.3	23,470.4
Wisconsin	3,522.9	3,522.9	3,188.9	3,250.5	637.9	581.7	5,271.3	5,267.7	58.4	58.4	580.3	580.3	0.0	0.0	13,259.7	13,261.5
West North Central	7,089.6	7,089.6	11,603.9	11,648.9	3,885.9	3,896.1	31,091.5	31,986.7	39.5	39.5	3,888.6	3,944.1	5.6	5.6	57,404.6	58,610.5
Iowa	1,752.5	1,752.5	1,123.4	1,123.4	757.2	741.4	4,833.2	5,068.5	39.5	39.5	932.4	933.9	0.0	0.0	9,438.2	9,659.2
Kansas	266.0	266.0	2,192.6	2,192.6	1,392.7	1,392.7	4,521.4	4,521.4	0.0	0.0	540.5	537.5	0.0	0.0	8,913.2	8,910.2
Minnesota	2,532.9	2,532.9	2,545.8	2,545.8	449.5	449.5	3,823.7	3,978.6	0.0	0.0	769.3	767.3	0.0	0.0	10,121.2	10,274.1
Missouri	1,905.2	1,905.2	3,286.0	3,331.0	390.9	616.9	9,661.2	10,166.2	0.0	0.0	1,012.4	1,066.4	0.0	0.0	16,256.7	17,085.7
Nebraska	338.0	338.0	1,106.9	1,106.9	517.4	517.4	3,845.6	3,845.6	0.0	0.0	359.1	364.1	0.0	0.0	6,167.0	6,172.0
North Dakota	0.0	0.0	454.0	454.0	106.8	106.8	3,931.4	3,931.4	0.0	0.0	60.0	60.0	5.6	5.6	4,557.8	4,557.8
South Dakota	295.0	295.0	895.2	895.2	71.4	71.4	475.0	475.0	0.0	0.0	214.9	214.9	0.0	0.0	1,951.5	1,951.5
South Atlantic	65,856.8	64,975.6	31,826.1	31,826.1	14,215.8	14,608.6	36,034.0	36,987.0	83.8	83.8	6,231.8	7,099.8	135.0	135.0	154,383.3	155,415.9
Delaware	1,504.0	1,504.0	314.0	314.0	738.8	738.8	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,215.9	3,215.9
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	35,710.4	34,563.0	8,834.0	8,834.0	5,170.5	5,562.9	4,615.0	4,562.0	0.0	0.0	1,662.2	1,662.2	0.0	0.0	55,992.1	55,184.1
Georgia	8,073.2	8,073.2	7,143.5	7,143.5	850.1	850.1	5,780.0	5,780.0	83.8	83.8	1,601.6	1,601.6	0.0	0.0	23,532.2	23,532.2
Maryland	2,766.0	2,766.0	1,675.7	1,675.7	1,210.1	1,209.5	1,758.0	1,758.0	0.0	0.0	1,350.5	1,368.5	0.0	0.0	8,760.3	8,777.7
North Carolina	5,579.0	5,579.0	6,002.5	6,002.5	4,665.7	4,665.7	4,594.0	4,594.0	0.0	0.0	501.4	501.4	0.0	0.0	21,342.6	21,342.6
South Carolina	3,252.0	3,218.2	2,497.0	2,497.0	883.0	883.0	4,789.0	4,789.0	0.0	0.0	244.6	304.6	0.0	0.0	11,665.6	11,691.8
Virginia	8,972.2	8,972.2	4,249.3	4,249.3	582.1	583.1	1,530.0	2,536.0	0.0	0.0	746.4	1,536.4	0.0	0.0	16,080.0	17,877.0
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	23,087.3	21,857.4	12,988.0	12,262.0	4,475.8	4,605.8	21,171.5	21,171.5	0.0	0.0	533.9	533.9	3.8	3.8	62,260.3	60,425.4
Alabama	10,454.2	9,795.3	3,007.8	2,572.8	1,852.7	1,982.7	4,728.0	4,728.0	0.0	0.0	42.6	42.6	3.8	3.8	20,389.1	19,125.2
Kentucky	1,763.0	1,763.0	4,905.6	4,905.6	483.0	483.0	9,180.0	9,180.0	0.0	0.0	11.9	11.9	0.0	0.0	16,343.5	16,343.5
Mississippi	8,415.0	7,844.0	1,369.3	1,369.3	2,006.6	2,006.6	1,444.0	1,444.0	0.0	0.0	9.0	9.0	0.0	0.0	13,243.9	12,672.9
Tennessee	2,455.1	2,455.1	3,405.3	3,405.3	133.5	133.5	5,819.5	5,819.5	0.0	0.0	470.4	470.4	0.0	0.0	12,283.8	12,283.8
West South Central	66,042.4	65,755.9	16,958.4	16,361.2	29,710.1	29,835.9	27,078.9	28,568.9	882.1	882.1	702.7	701.4	213.4	186.5	141,588.0	142,291.9
Arkansas	4,613.3	4,613.3	702.8	702.8	824.0	824.0	5,108.7	5,108.7	0.0	0.0	9.0	9.0	0.0	0.0	11,257.8	11,257.8
Louisiana	9,695.8	9,695.8	2,972.9	2,972.9	5,746.2	5,746.2	2,074.1	2,074.1	818.3	818.3	49.7	49.7	189.6	162.7	21,546.6	21,519.7
Oklahoma	8,955.9	8,954.9	1,643.0	1,643.0	5,881.1	5,915.1	3,244.5	3,244.5	0.0	0.0	66.4	66.4	0.0	0.0	19,790.9	19,823.9
Texas	42,777.4	42,491.9	11,639.7	11,042.5	17,258.8	17,350.6	16,851.8	18,141.6	63.8	63.8	577.6	576.3	23.8	23.8	88,992.7	89,690.5
Mountain	23,060.9	23,093.2	9,642.9	9,479.1	3,703.8	3,698.0	21,307.9	21,632.9	52.0	52.0	510.0	510.0	7.8	7.8	58,285.1	58,473.0
Arizona	10,193.6	10,193.6	3,094.8	3,084.8	1,097.6	1,097.6	2,943.0	2,943.0	0.0	0.0	268.5	268.5	0.0	0.0	17,587.5	17,587.5
Colorado	3,193.5	3,193.5	2,701.8	2,538.0	646.0	646.0	3,804.0	4,129.0	0.0	0.0	150.5	150.5	3.0	3.0	10,458.8	10,660.0
Idaho	562.7	595.0	627.7	627.7	16.7	16.7	0.0	0.0	0.0	0.0	5.4	5.4	0.0	0.0	1,212.5	1,244.8
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	5,703.0	5,703.0	1,185.6	1,185.6	446.4	444.6	740.4	740.4	0.0	0.0	6.0	6.0	0.0	0.0	8,081.4	8,079.6
New Mexico	1,484.1	1,484.1	945.3	945.3	832.6	833.6	1,540.0	1,540.0	0.0	0.0	46.0	46.0	0.0	0.0	4,848.0	4,848.0
Utah	1,830.0	1,830.0	534.6	534.6	338.1	333.3	4,581.0	4,581.0	0.0	0.0	27.8	27.8	0.0	0.0	7,311.5	7,306.7
Wyoming	94.0	94.0	247.3	247.3	254.0	254.0	6,069.0	6,069.0	0.0	0.0	5.8	5.8	3.3	3.3	6,673.4	6,673.4
Pacific Contiguous	26,740.8	26,589.1	12,276.9	12,276.9	5,486.3	5,489.6	727.0	727.0	0.0	0.0	439.0	437.0	194.6	199.9	45,874.6	45,739.5
California	20,719.0	20,587.3	11,433.7	11,433.7	5,240.5	5,233.8	57.0	57.0	0.0	0.0	415.2	415.2	194.6	199.9	38,060.0	37,928.9
Oregon	3,395.2	3,395.2	124.0	124.0	229.2	229.2	0.0	0.0	0.0	0.0	6.6	6.6	0.0	0.0	3,755.0	3,755.0
Washington	2,626.6	2,626.6	719.2	719.2	26.6	26.6	670.0	670.0	0.0	0.0	17.2	15.2	0.0	0.0	4,059.6	4,057.6
Pacific Noncontiguous	374.6	374.6	721.1	721.1	174.4	177.4	167.9	167.9	0.0	0.0	2,723.8	2,721.8	0.0	0.0	4,161.8	4,162.8
Alaska	374.6	374.6	721.1	721.1	174.4	177.4	167.9	167.9	0.0	0.0	743.9	741.9	0.0	0.0	2,181.9	2,182.9
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,979.9	1,979.9	0.0	0.0	1,979.9	1,979.9
U.S. Total	294,743.1	288,722.5	131,498.3	130,348.7	81,164.7	83,372.3	182,817.9	192,425.8	1,318.9	1,338.9	28,423.1	29,540.5	1,725.1	1,733.5	721,691.1	727,482.2

NM = Not meaningful due to large relative standard error.
Values for 2022 are final. Values for 2023 are preliminary.

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of existing or planned capacity for some technologies such as solar photovoltaic generation.

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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2023

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	1	61012	AES Distributed Energy	IPP	Cement City Solar, LLC	MI	64567	CMCTY	20.0	Solar Photovoltaic	SUN	PV
2023	1	61514	Agilitas Energy, LLC	IPP	Old Middleboro Road Solar	MA	64759	OLD	5.0	Solar Photovoltaic	SUN	PV
2023	1	61514	Agilitas Energy, LLC	IPP	Old Middleboro Road Solar	MA	64759	OLDBA	4.5	Batteries	MWH	BA
2023	1	62627	Alchemy Renewable Energy	IPP	Brady Solar LLC	GA	65729	GABR	1.8	Solar Photovoltaic	SUN	PV
2023	1	59496	Allete Clean Energy	IPP	Northern Wind	MN	65714	32004	100.0	Onshore Wind Turbine	WIND	WT
2023	1	63494	Allora Solar, LLC	IPP	Allora Solar, LLC	SC	63808	PGR30	75.0	Solar Photovoltaic	SUN	PV
2023	1	65570	Amherst Community Solar LLC	IPP	Amherst Community Solar	NY	66522	18208	5.0	Solar Photovoltaic	SUN	PV
2023	1	64285	BCD Project Holdings 1, LLC	IPP	UN-School House LLC	PA	64711	GSF01	20.0	Solar Photovoltaic	SUN	PV
2023	1	65188	Ballantyne LLC	IPP	Andresen Solar	MN	66017	ANDR	1.0	Solar Photovoltaic	SUN	PV
2023	1	64505	Cabin Creek Solar, LLC	IPP	Cabin Creek Solar, LLC	NC	65107	PGR34	70.2	Solar Photovoltaic	SUN	PV
2023	1	65190	Cannon River LLC	IPP	Platt Solar	MN	66015	PLAT	1.0	Solar Photovoltaic	SUN	PV
2023	1	63991	DG New York CS, LLC	IPP	Cortlandville III Solar CSG	NY	65090	CORT3	5.0	Solar Photovoltaic	SUN	PV
2023	1	65518	ELP Claverack Solar, LLC	IPP	ELP Claverack Solar	NY	66425	CLAV	5.0	Solar Photovoltaic	SUN	PV
2023	1	65519	ELP Livingston Solar, LLC	IPP	ELP Livingston Solar	NY	66424	LIV	5.0	Solar Photovoltaic	SUN	PV
2023	1	59380	Enel Green Power NA, Inc.	IPP	25 Mile Creek	OK	65511	44444	250.0	Onshore Wind Turbine	WIND	WT
2023	1	64428	Evergy, Inc.	IPP	Hawthorn Solar I	MO	65296	HAW10	10.0	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	Anhings Solar Energy Center	FL	65431	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	Apalachee	FL	65432	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	Blackwater River Solar Energy Center	FL	65433	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	Bluefield Preserve Solar	FL	65420	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	Everglades Solar Energy Center	FL	65423	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	FPL Cavendish Solar Energy Center	FL	65438	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	FPL Chipola River Solar Energy Center	FL	65422	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	FPL Flowers Creek Solar Energy Center	FL	65427	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	First City Solar Energy Center	FL	65424	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6452	Florida Power & Light Co	Electric Utility	Pink Trial Solar Energy Center	FL	65428	1	74.5	Solar Photovoltaic	SUN	PV
2023	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA
2023	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT
2023	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT
2023	1	61194	Generate Capital	IPP	Dunkleman Solar	NY	66219	11008	5.0	Solar Photovoltaic	SUN	PV
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	ER Bison Solar CSG	PA	66097	371	1.4	Solar Photovoltaic	SUN	PV
2023	1	60025	Greenbacker Renewable Energy Corporation	IPP	MTSUN	MT	64032	MTSUN	80.0	Solar Photovoltaic	SUN	PV
2023	1	65076	HEN Infrastructure, L.L.C.	IPP	Holcomb (TX)	TX	65829	HOLCO	9.9	Batteries	MWH	BA
2023	1	65076	HEN Infrastructure, L.L.C.	IPP	Screwbean	TX	65835	SCRWB	9.9	Batteries	MWH	BA
2023	1	9234	Indiana Municipal Power Agency	Electric Utility	Gas City 2	IN	65315	GASC2	1.8	Solar Photovoltaic	SUN	PV
2023	1	64847	Inertia Wind Project, LLC	IPP	Inertia Wind Project	TX	65546	WINER	301.0	Onshore Wind Turbine	WIND	WT
2023	1	9417	Interstate Power and Light Co	Electric Utility	Deer Run Battery	IA	65531	BESS1	5.0	Batteries	MWH	BA
2023	1	65356	Jax LNG	Commercial	Jax LNG	FL	66392	1150	2.6	Natural Gas Internal Combustion Engine	NG	IC
2023	1	56990	NJR Clean Energy Ventures Corporation	IPP	Canoe Brook Solar	NJ	65705	CANOE	6.3	Solar Photovoltaic	SUN	PV
2023	1	56990	NJR Clean Energy Ventures Corporation	IPP	Mount Olive Solar Farm	NJ	65348	OLIVE	19.8	Solar Photovoltaic	SUN	PV
2023	1	64504	Phobos Solar, LLC	IPP	Phobos Solar, LLC	NC	65106	PGR33	78.8	Solar Photovoltaic	SUN	PV
2023	1	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	7	9.0	Conventional Hydroelectric	WAT	HY
2023	1	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	8	9.0	Conventional Hydroelectric	WAT	HY
2023	1	63359	REA Investments, LLC	IPP	Novel Schroeder Solar LLC CSG	MN	64484	SCRDR	1.0	Solar Photovoltaic	SUN	PV
2023	1	65172	Tillow Garden LLC	IPP	Tillow Garden LLC CSG	MN	66004	TTLOW	1.0	Solar Photovoltaic	SUN	PV
2023	1	65173	United States Solar Corporation	IPP	USS Catfish Solar LLC	MN	65440	USSCF	1.0	Solar Photovoltaic	SUN	PV
2023	1	65173	United States Solar Corporation	IPP	USS Franklin Solar LLC	MN	65439	USSFS	1.0	Solar Photovoltaic	SUN	PV
2023	1	65173	United States Solar Corporation	IPP	USS Mesa Solar LLC	MN	65442	USSMS	1.0	Solar Photovoltaic	SUN	PV
2023	1	65173	United States Solar Corporation	IPP	USS Wells Creek Solar LLC	MN	65443	USSWC	1.0	Solar Photovoltaic	SUN	PV
2023	1	64474	Waiawa Solar Power LLC	IPP	Waiawa Solar Power Hybrid	HI	65058	WAIBA	36.0	Batteries	MWH	BA
2023	1	64474	Waiawa Solar Power LLC	IPP	Waiawa Solar Power Hybrid	HI	65058	WAIPV	36.0	Solar Photovoltaic	SUN	PV
2023	2	65582	7th Road Solar 1, LLC (Briscoe 1A)	IPP	Briscoe 1A	IL	66507	BR1A	2.0	Solar Photovoltaic	SUN	PV
2023	2	65583	7th Road Solar 2, LLC (Briscoe 2A)	IPP	Briscoe 2A	IL	66508	BR2A	2.0	Solar Photovoltaic	SUN	PV
2023	2	60146	Ameresco Federal Solutions	IPP	Fort Bragg - Camp Mackall PV BESS System	NC	64050	CMABS	2.0	Batteries	MWH	BA
2023	2	60146	Ameresco Federal Solutions	IPP	Fort Bragg - Camp Mackall PV BESS System	NC	64050	CMAPV	1.0	Solar Photovoltaic	SUN	PV
2023	2	803	Arizona Public Service Co	Electric Utility	Desert Star Hybrid	AZ	59444	DS10M	10.0	Batteries	MWH	BA
2023	2	803	Arizona Public Service Co	Electric Utility	EI Sol BESS	AZ	62964	EL50M	50.0	Batteries	MWH	BA
2023	2	64516	Azimuth 180 Solar Electric, LLC	IPP	Ontario Sun	NY	65165	ONSUN	2.4	Solar Photovoltaic	SUN	PV
2023	2	64838	Bear Grove Solar, LLC	IPP	Bear Grove Solar	MN	65514	13260	1.0	Solar Photovoltaic	SUN	PV
2023	2	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-1H	1.5	Natural Gas Internal Combustion Engine	NG	IC
2023	2	56310	Boise White Paper LLC	Industrial	Packaging Corp. of America Jackson Mill	AL	55044	STG2	26.8	Wood/Wood Waste Biomass	BLQ	ST
2023	2	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	8	1.8	Petroleum Liquids	DFO	IC
2023	2	63523	DePue Holdings, LLC	IPP	DePue Holdings, LLC	IL	63845	DEPUE	20.0	Solar Photovoltaic	SUN	PV
2023	2	6455	Duke Energy Florida, LLC	Electric Utility	Lake Placid Solar Power Plant	FL	62541	ES1	17.3	Batteries	MWH	BA
2023	2	65225	Eight Point Wind, LLC	Electric Utility	Eight Point Wind	NY	66052	EPW01	101.2	Onshore Wind Turbine	WIND	WT
2023	2	65049	Elba Solar LLC	IPP	Elba Solar LLC	IL	65797	ELBA	2.0	Solar Photovoltaic	SUN	PV
2023	2	6452	Florida Power & Light Co	Electric Utility	Chautauqua Solar Energy Center	FL	65421	1	74.5	Solar Photovoltaic	SUN	PV
2023	2	6452	Florida Power & Light Co	Electric Utility	FPL Shirer Branch Solar Energy Center	FL	65429	1	74.5	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2023

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	2	6452	Florida Power & Light Co	Electric Utility	Wild Azalea Solar Energy Center	FL	66430	1	74.5	Solar Photovoltaic	SUN	PV
2023	2	64989	Great Pathfinder Wind	IPP	Great Pathfinder Wind	IA	65715	GPWF	224.4	Onshore Wind Turbine	WND	WT
2023	2	60025	Greenbacker Renewable Energy Corporation	IPP	DIA 8	CO	65806	528	4.5	Solar Photovoltaic	SUN	PV
2023	2	60025	Greenbacker Renewable Energy Corporation	IPP	IGS SBD1	CA	66035	457	2.6	Solar Photovoltaic	SUN	PV
2023	2	60025	Greenbacker Renewable Energy Corporation	IPP	IGS SBD2	CA	66039	457	2.5	Solar Photovoltaic	SUN	PV
2023	2	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS1	612.0	Natural Gas Fired Combined Cycle	NG	CS
2023	2	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS2	612.0	Natural Gas Fired Combined Cycle	NG	CS
2023	2	49893	Inveny Services LLC	IPP	Sapphire Sky Wind Energy LLC	IL	65316	65011	259.8	Onshore Wind Turbine	WND	WT
2023	2	63776	JSD Flatwood PV-1, LLC	IPP	Bryant Road Solar	SC	64155	2001	2.0	Solar Photovoltaic	SUN	PV
2023	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Bellflower Solar 1	IN	65031	INBF1	152.5	Solar Photovoltaic	SUN	PV
2023	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Black Bear Solar 1	AL	63765	ALBB1	100.0	Solar Photovoltaic	SUN	PV
2023	2	64625	MA CS Uxbridge, LLC	IPP	MA CS Uxbridge Community Solar	MA	65362	UXBRD	4.0	Solar Photovoltaic	SUN	PV
2023	2	56990	NJR Clean Energy Ventures Corporation	IPP	Maybrook Solar, LLC (CSG)	NY	65337	MAYBK	5.0	Solar Photovoltaic	SUN	PV
2023	2	56215	RWE Renewables Americas, LLC	IPP	Baron Winds Farm	NY	60596	1	130.0	Onshore Wind Turbine	WND	WT
2023	2	62744	St. James Solar, LLC	IPP	St. James Solar (LA)	LA	62854	SJS	20.0	Solar Photovoltaic	SUN	PV
2023	2	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid (CSG)	MA	62974	SYMIB	3.8	Batteries	MWH	BA
2023	2	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid CSG	MA	62971	SYWEB	2.9	Batteries	MWH	BA
2023	2	63560	TDX Sand Point Generating, LLC	Electric Utility	Sand Point	AK	1	5.1	0.3	Petroleum Liquids	DFO	IC
2023	3	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GENS	0.6	Natural Gas Internal Combustion Engine	NG	IC
2023	3	65638	Arthur Solar 2, LLC	IPP	Arthur 2 Solar	NC	66605	ARTH2	5.0	Solar Photovoltaic	SUN	PV
2023	3	64285	BCD Project Holdings 1, LLC	IPP	CL-Viaduct LLC	PA	64709	GSF01	20.0	Solar Photovoltaic	SUN	PV
2023	3	56769	Consolidated Edison Development Inc.	IPP	Wattlington Solar	VA	65221	WSPV1	20.0	Solar Photovoltaic	SUN	PV
2023	3	17568	Cooperative Energy	Electric Utility	R D Morrow	MS	6061	MOR1	156.0	Natural Gas Fired Combined Cycle	NG	CA
2023	3	17568	Cooperative Energy	Electric Utility	R D Morrow	MS	6061	MOR2	388.0	Natural Gas Fired Combined Cycle	NG	CT
2023	3	64998	Deerfield Wind Energy 2, LLC	IPP	Deerfield Wind Energy 2	MI	65742	DWF02	112.1	Onshore Wind Turbine	WND	WT
2023	3	5248	Dominion Energy Inc.	Electric Utility	Sycamore Solar	VA	64136	SYSO	42.0	Solar Photovoltaic	SUN	PV
2023	3	6455	Duke Energy Florida, LLC	Electric Utility	Hildreth Solar Power Plant	FL	65170	PV1	74.9	Solar Photovoltaic	SUN	PV
2023	3	55729	Duke Energy Kentucky Inc	Electric Utility	Aero Solar Facility	KY	65027	PV1	2.0	Solar Photovoltaic	SUN	PV
2023	3	3046	Duke Energy Progress - (NC)	Electric Utility	Camp Lejeune Solar and Energy Storage	NC	59966	ES1	11.0	Batteries	MWH	BA
2023	3	65730	Eastover Solar, LLC	IPP	Eastover Solar	SC	66717	ESTOR	73.8	Solar Photovoltaic	SUN	PV
2023	3	62856	Forefront Power, LLC	IPP	Amazon - Stockton - Roof (SCK1) - (CA)	CA	64429	19001	2.6	Solar Photovoltaic	SUN	PV
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	Cortez Solar 3, LLC	CO	66141	711	2.0	Solar Photovoltaic	SUN	PV
2023	3	60025	Greenbacker Renewable Energy Corporation	IPP	Millersport GM 1	NY	65309	532	5.0	Solar Photovoltaic	SUN	PV
2023	3	63723	Ignacio Grid, LLC	IPP	Ignacio Grid Energy Storage System	TX	64089	IGN01	100.0	Batteries	MWH	BA
2023	3	64236	Kearsarge Upper Union LLC	IPP	Kearsarge Upper Union	MA	64619	FUU	1.0	Solar Photovoltaic	SUN	PV
2023	3	64236	Kearsarge Upper Union LLC	IPP	Kearsarge Upper Union	MA	64619	UUBAT	0.8	Batteries	MWH	BA
2023	3	55983	Luminant Generation Company LLC	IPP	Emerald Grove	TX	63233	UNIT1	108.0	Solar Photovoltaic	SUN	PV
2023	3	61944	MN8 Energy LLC	IPP	NY8 - Grissom Solar	NY	65121	GEN1	20.0	Solar Photovoltaic	SUN	PV
2023	3	61944	MN8 Energy LLC	IPP	NY8 - Janis Solar	NY	65123	GEN1	20.0	Solar Photovoltaic	SUN	PV
2023	3	63451	Madero Grid, LLC	IPP	Madero Grid	TX	63757	MAD01	100.0	Batteries	MWH	BA
2023	3	62915	Madison Energy Holdings LLC	IPP	Johnson CSG 2	MN	66030	JOHN2	1.0	Solar Photovoltaic	SUN	PV
2023	3	62915	Madison Energy Holdings LLC	IPP	Norton	MA	64532	NORTN	1.4	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	BAT1	5.1	Batteries	MWH	BA
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	SOL1	5.0	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Hamlet Solar Energy Storage	NC	64512	BAT1	0.5	Batteries	MWH	BA
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Hamlet Solar Energy Storage	NC	64512	SOL1	0.5	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	BAT1	2.5	Batteries	MWH	BA
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	SOL1	2.0	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina EI Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	BAT1	0.6	Batteries	MWH	BA
2023	3	13683	North Carolina EI Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	SOL1	0.5	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Wake RJ3 Solar Energy Storage	NC	64513	BAT1	0.6	Batteries	MWH	BA
2023	3	13683	North Carolina EI Member Corp	Electric Utility	Wake RJ3 Solar Energy Storage	NC	64513	SOL1	0.5	Solar Photovoltaic	SUN	PV
2023	3	64084	OE TN1	IPP	OETN1	TN	64507	OETN1	100.0	Solar Photovoltaic	SUN	PV
2023	3	63640	Safari Energy, LLC	IPP	Polk County GA S1, LLC	GA	65994	20066	3.0	Solar Photovoltaic	SUN	PV
2023	3	16609	San Diego Gas & Electric Co	Electric Utility	Fallbrook Energy Storage	CA	61385	FBES	40.0	Batteries	MWH	BA
2023	3	65148	Seven Cowboy Wind Project, LLC	IPP	Seven Cowboy Wind Project, LLC	OK	66971	WT1	301.7	Onshore Wind Turbine	WND	WT
2023	3	65503	Solar DG NY Sunnyside 1, LLC	IPP	Sunnyside 1 Solar	NY	66504	SS1	5.0	Solar Photovoltaic	SUN	PV
2023	3	65127	VESI 24 LLC	IPP	Howell Energy Storage Project	NJ	65953	HW1	7.0	Batteries	MWH	BA
2023	3	61863	Washington Solar (SC)	IPP	Washington Solar (SC)	SC	62342	87	2.0	Solar Photovoltaic	SUN	PV
2023	4	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	KLOAB	30.0	Batteries	MWH	BA
2023	4	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	YKLOA	30.0	Solar Photovoltaic	SUN	PV
2023	4	59496	Allete Clean Energy	IPP	Red Barn Energy	WI	65282	WT	91.6	Onshore Wind Turbine	WND	WT
2023	4	803	Arizona Public Service Co	Electric Utility	Cotton Center Solar Hybrid	AZ	57561	CC17M	17.0	Batteries	MWH	BA
2023	4	803	Arizona Public Service Co	Electric Utility	Foothills Solar Plant Hybrid	AZ	57997	FH38M	38.0	Batteries	MWH	BA
2023	4	803	Arizona Public Service Co	Electric Utility	Gila Bend Hybrid	AZ	59020	GB36M	36.0	Batteries	MWH	BA
2023	4	803	Arizona Public Service Co	Electric Utility	Hyder II Hybrid	AZ	58383	H214M	14.0	Batteries	MWH	BA
2023	4	803	Arizona Public Service Co	Electric Utility	Hyder Solar Hybrid	AZ	57563	H116M	16.0	Batteries	MWH	BA
2023	4	803	Arizona Public Service Co	Electric Utility	Paloma Solar Hybrid	AZ	57562	PA17M	17.0	Batteries	MWH	BA

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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
2023	4	15399	Avangrid Renewables LLC	IPP	Montague Solar	OR	63441	S1	162.0	Solar Photovoltaic	SUN	PV
2023	4	63784	Azure Sky Wind Project, LLC	IPP	Azure Sky Wind Project, LLC Hybrid	TX	64164	ASWWT	350.2	Onshore Wind Turbine	WND	WT
2023	4	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	BATT	1.0	Batteries	MWH	BA
2023	4	65487	Chaves County Solar II, LLC	IPP	Chaves County Solar II	NM	66405	CCS2	30.0	Solar Photovoltaic	SUN	PV
2023	4	63466	Conductive Power	IPP	Ripley	MD	66203	RIPLY	27.5	Solar Photovoltaic	SUN	PV
2023	4	5109	DTE Electric Company	Electric Utility	Meridian Wind Park	MI	65328	1	225.0	Onshore Wind Turbine	WND	WT
2023	4	6455	Duke Energy Florida, LLC	Electric Utility	Bay Ranch Solar Power Plant	FL	65171	PV1	74.9	Solar Photovoltaic	SUN	PV
2023	4	6455	Duke Energy Florida, LLC	Electric Utility	Hardeetown Solar Power Plant	FL	65173	PV1	74.9	Solar Photovoltaic	SUN	PV
2023	4	6455	Duke Energy Florida, LLC	Electric Utility	High Springs Solar Photovoltaic	FL	65172	PV1	74.9	Solar Photovoltaic	SUN	PV
2023	4	6452	Florida Power & Light Co	Electric Utility	FPL Cypress Pond Solar	FL	65593	1	74.5	Solar Photovoltaic	SUN	PV
2023	4	6452	Florida Power & Light Co	Electric Utility	FPL Etonia Creek	FL	65594	1	74.5	Solar Photovoltaic	SUN	PV
2023	4	6452	Florida Power & Light Co	Electric Utility	FPL Saw Palmetto Solar Energy Center	FL	65592	1	74.5	Solar Photovoltaic	SUN	PV
2023	4	60025	Greenbacker Renewable Energy Corporation	IPP	Bizer Creek	NY	66094	561	1.5	Solar Photovoltaic	SUN	PV
2023	4	60025	Greenbacker Renewable Energy Corporation	IPP	Friendship I	MD	66160	569	2.0	Solar Photovoltaic	SUN	PV
2023	4	60025	Greenbacker Renewable Energy Corporation	IPP	Friendship II	MD	66162	570	2.0	Solar Photovoltaic	SUN	PV
2023	4	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS3	612.0	Natural Gas Fired Combined Cycle	NG	CS
2023	4	65894	Hubble Solar, LLC	IPP	Hubble Solar, LLC	NC	66989	28472	2.0	Solar Photovoltaic	SUN	PV
2023	4	49893	Invernergy Services LLC	IPP	Invernergy Nelson Expansion LLC	IL	60387	GEN3	157.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	4	49893	Invernergy Services LLC	IPP	Invernergy Nelson Expansion LLC	IL	60387	GEN4	157.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	4	65120	Kearsarge Smithfield LLC	IPP	Kearsarge Smithfield LLC	RI	65949	SMITH	8.0	Solar Photovoltaic	SUN	PV
2023	4	56990	NJR Clean Energy Ventures Corporation	IPP	Aero Haven Solar	NJ	63195	ACP3	2.6	Solar Photovoltaic	SUN	PV
2023	4	65488	NTUA Generation - Utah, LLC	IPP	Red Mesa Solar Project	UT	66404	PV	72.0	Solar Photovoltaic	SUN	PV
2023	4	63216	North Valley	IPP	North Valley	NV	63491	OECC1	25.0	Geothermal	GEO	BT
2023	4	64086	OE_ALD	IPP	OE_ALD	AL	64469	OEALD	80.0	Solar Photovoltaic	SUN	PV
2023	4	55727	Orion Engineered Carbons	Industrial	Ivanhoe Generation Facility	LA	66175	GEN1	26.9	Other Gases	OG	ST
2023	4	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT1	351.0	Natural Gas Fired Combined Cycle	NG	CT
2023	4	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT2	351.0	Natural Gas Fired Combined Cycle	NG	CT
2023	4	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	ST	397.4	Natural Gas Fired Combined Cycle	NG	CA
2023	4	64994	SolRiver Capital LLC	IPP	Bulloch County GA S3 LLC	GA	66346	PV1	3.0	Solar Photovoltaic	SUN	PV
2023	4	64994	SolRiver Capital LLC	IPP	Bulloch County GA S4 LLC	GA	66344	PV1	3.0	Solar Photovoltaic	SUN	PV
2023	4	64994	SolRiver Capital LLC	IPP	Richmond County GA S2 LLC	GA	66350	PV1	3.0	Solar Photovoltaic	SUN	PV
2023	4	64994	SolRiver Capital LLC	IPP	Upson County GA S1 LLC	GA	66353	PV1	3.0	Solar Photovoltaic	SUN	PV
2023	4	64399	Trona Solar III LLC	IPP	Trona Solar III	CA	64914	71466	2.0	Solar Photovoltaic	SUN	PV
2023	5	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV
2023	5	64904	AES Clean Energy	IPP	AES Daigle Solar, LLC	ME	66136	DGLE	5.0	Solar Photovoltaic	SUN	PV
2023	5	64904	AES Clean Energy	IPP	AES Pelletier Solar, LLC	ME	66135	PELLR	4.0	Solar Photovoltaic	SUN	PV
2023	5	64904	AES Clean Energy	IPP	Chevelon Butte Wind Farm	AZ	66001	CHVB	238.2	Onshore Wind Turbine	WND	WT
2023	5	64904	AES Clean Energy	IPP	Treasure Lane Solar 1	ME	66174	TREAS	4.5	Solar Photovoltaic	SUN	PV
2023	5	65009	Ahern Community Solar I, LLC	IPP	Ahern Community Solar I, LLC	IL	65758	AHERN	2.0	Solar Photovoltaic	SUN	PV
2023	5	63722	Alta Farms II Wind Project, LLC	IPP	Alta Farms II Wind Project, LLC	IL	64088	WT2	200.5	Onshore Wind Turbine	WND	WT
2023	5	65589	Bulldog Solar LLC	IPP	Bulldog Solar LLC	GA	66542	PGR37	80.0	Solar Photovoltaic	SUN	PV
2023	5	56765	CER Colorado Bend Energy Partners LP	IPP	Colorado Bend Energy Center	TX	56350	CT4A	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	56765	CER Colorado Bend Energy Partners LP	IPP	Colorado Bend Energy Center	TX	56350	CT4B	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	65227	Cathcart Solar, LLC	IPP	Cathcart Solar, LLC	NC	66055	CATHC	5.0	Solar Photovoltaic	SUN	PV
2023	5	65055	Concho Valley Solar, LLC	IPP	Concho Valley Solar, LLC	TX	65793	CVS	159.8	Solar Photovoltaic	SUN	PV
2023	5	40230	Deseret Generation & Tran Coop	Electric Utility	Bonanza	UT	7790	4	12.5	Solar Photovoltaic	SUN	PV
2023	5	62856	Forefront Power, LLC	IPP	CA-DGS-California Men's Colony	CA	65523	14057	2.2	Solar Photovoltaic	SUN	PV
2023	5	61194	Generate Capital	IPP	Davis Solar	NY	66488	10958	2.0	Solar Photovoltaic	SUN	PV
2023	5	65076	HEN Infrastructure, L.L.C.	IPP	Gomez	TX	65814	GOMEZ	9.9	Batteries	MWH	BA
2023	5	65076	HEN Infrastructure, L.L.C.	IPP	Olney	TX	65832	OLNEY	9.9	Batteries	MWH	BA
2023	5	64370	IP Radian, LLC	IPP	IP Radian, LLC	TX	64859	IPRAD	320.0	Solar Photovoltaic	SUN	PV
2023	5	49893	Invernergy Services LLC	IPP	Number Three Wind Project	NY	65522	65013	106.0	Onshore Wind Turbine	WND	WT
2023	5	65662	KDC Solar CV Ascend One LLC	IPP	KDC Solar CV Ascend One LLC	MD	66652	CVAO	2.0	Solar Photovoltaic	SUN	PV
2023	5	65664	KDC Solar CV Central MD Regional Transit LLC	IPP	KDC Solar CV Central MD Regional Transit	MD	66654	CVRT	2.0	Solar Photovoltaic	SUN	PV
2023	5	65122	Kearsarge Beverly LLC	IPP	Kearsarge 100 Sohier Rd	MA	65950	SOBAT	1.8	Batteries	MWH	BA
2023	5	65122	Kearsarge Beverly LLC	IPP	Kearsarge 100 Sohier Rd	MA	65950	SOH	3.8	Solar Photovoltaic	SUN	PV
2023	5	63289	Key Capture Energy	IPP	NY6 Battery	NY	65692	NY6	20.0	Batteries	MWH	BA
2023	5	65785	Luminace Sunbeam Development Holdings, LLC	IPP	ME Novel Lighthouse - Front St. Solar CSG	ME	66834	FRONT	3.2	Solar Photovoltaic	SUN	PV
2023	5	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-1	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-2	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-3	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-4	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-5	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	63082	ProEnergy Services	IPP	Brotman Power Station	TX	65373	CTG-6	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	61069	RE Gaskell West LLC	IPP	RE Gaskell West 2 LLC	CA	61446	PV2	45.0	Solar Photovoltaic	SUN	PV
2023	5	61069	RE Gaskell West LLC	IPP	RE Gaskell West 3 LLC	CA	61447	PV3	20.0	Solar Photovoltaic	SUN	PV
2023	5	61069	RE Gaskell West LLC	IPP	RE Gaskell West 4 LLC	CA	61448	PV4	20.0	Solar Photovoltaic	SUN	PV
2023	5	61069	RE Gaskell West LLC	IPP	RE Gaskell West 5 LLC	CA	61449	PV5	20.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2023

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	5	63359	REA Investments, LLC	IPP	Novel Caroline Solar, LLC CSG	MN	64485	CRLNE	1.0	Solar Photovoltaic	SUN	PV
2023	5	56215	RWE Renewables Americas, LLC	IPP	Blackjack Creek Wind Farm	TX	62783	BLKJK	239.6	Onshore Wind Turbine	WND	WT
2023	5	64607	Salt City Solar LLC	IPP	Salt City Solar Project - Hybrid	OH	65302	SOLAR	49.9	Solar Photovoltaic	SUN	PV
2023	5	60531	Standard Solar	IPP	City of Rosamond (CA)	CA	66667	ROSA	1.0	Solar Photovoltaic	SUN	PV
2023	5	64778	Strata Manager, LLC	IPP	Georgia Ballard BESS	VT	66727	GBBES	5.0	Batteries	MWH	BA
2023	5	64778	Strata Manager, LLC	IPP	Springfield BESS	VT	66728	SBES	5.0	Batteries	MWH	BA
2023	5	65552	Terra-Gen Operating Co-BESS 2	IPP	Sagebrush ESS	CA	65933	1	80.0	Batteries	MWH	BA
2023	5	65480	VC Renewables	IPP	Loring	ME	66403	LRING	4.1	Solar Photovoltaic	SUN	PV
2023	5	65129	VESI 21 LLC	IPP	Bowling Green Energy Storage Project	OH	65951	BG1	12.0	Batteries	MWH	BA
2023	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Schuykill Haven PA BTM	PA	66451	PB1	2.7	Petroleum Liquids	DFO	IC
2023	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Schuykill Haven PA BTM	PA	66451	PB2	2.7	Petroleum Liquids	DFO	IC
2023	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Weatherly(PA) RTO BTM	PA	66443	PB1	2.7	Petroleum Liquids	DFO	IC
2023	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Weatherly(PA) RTO BTM	PA	66443	PB2	2.7	Petroleum Liquids	DFO	IC
2023	6	65526	Black Mesa Solar, LLC	IPP	Black Mesa Solar, LLC	ID	66569	BMSA	40.0	Solar Photovoltaic	SUN	PV
2023	6	64266	Blue Jay Solar I, LLC	IPP	Blue Jay Solar I, LLC	TX	64672	BLUJS	210.0	Batteries	MWH	BA
2023	6	65486	Buena Vista Energy Center, LLC	IPP	Buena Vista Energy Center	NM	66408	BESS1	50.0	Batteries	MWH	BA
2023	6	65486	Buena Vista Energy Center, LLC	IPP	Buena Vista Energy Center	NM	66408	BVEC1	120.0	Solar Photovoltaic	SUN	PV
2023	6	63601	CPV Three Rivers, LLC	IPP	CPV Three Rivers Energy Center	IL	63931	GEN1	607.0	Natural Gas Fired Combined Cycle	NG	CS
2023	6	63601	CPV Three Rivers, LLC	IPP	CPV Three Rivers Energy Center	IL	63931	GEN2	607.0	Natural Gas Fired Combined Cycle	NG	CS
2023	6	3989	City of Colorado Springs - (CO)	Electric Utility	South Plant	CO	492	A1	27.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	3989	City of Colorado Springs - (CO)	Electric Utility	South Plant	CO	492	A2	27.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	3989	City of Colorado Springs - (CO)	Electric Utility	South Plant	CO	492	A3	27.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	3989	City of Colorado Springs - (CO)	Electric Utility	South Plant	CO	492	A4	27.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	3989	City of Colorado Springs - (CO)	Electric Utility	South Plant	CO	492	A5	27.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	3989	City of Colorado Springs - (CO)	Electric Utility	South Plant	CO	492	A6	27.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	6762	City of Fredonia - (KS)	Electric Utility	Fredonia	KS	65374	GEN1	1.5	Petroleum Liquids	DFO	IC
2023	6	6762	City of Fredonia - (KS)	Electric Utility	Fredonia	KS	65374	GEN2	1.5	Petroleum Liquids	DFO	IC
2023	6	56769	Consolidated Edison Development Inc.	IPP	CED West Side Canal Battery Storage	CA	65980	WCBS	131.0	Batteries	MWH	BA
2023	6	56769	Consolidated Edison Development Inc.	IPP	Pleasant Hill Solar	VA	65220	PHSPV	20.0	Solar Photovoltaic	SUN	PV
2023	6	65501	Dane County Solar LLC	IPP	Dane County Solar LLC	WI	66419	DANE	17.3	Solar Photovoltaic	SUN	PV
2023	6	65653	Dunns Bridge Solar Center LLC	Electric Utility	Dunn's Bridge 1 Solar	IN	66643	DBSC1	265.0	Solar Photovoltaic	SUN	PV
2023	6	54802	Dynegy - Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant Hybrid	CA	260	BAT3	350.0	Batteries	MWH	BA
2023	6	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC Hybrid	TX	62582	BA	50.0	Batteries	MWH	BA
2023	6	61944	MN8 Energy LLC	IPP	NY8 - Darby Solar	NY	66539	GEN1	20.0	Solar Photovoltaic	SUN	PV
2023	6	61944	MN8 Energy LLC	IPP	Summit - Oswego	NY	66275	GEN1	2.2	Solar Photovoltaic	SUN	PV
2023	6	64969	Meadow Lake Solar Park	Electric Utility	Indiana Crossroads Solar Park	IN	65702	GEN01	200.0	Solar Photovoltaic	SUN	PV
2023	6	56990	NJR Clean Energy Ventures Corporation	IPP	Canal Road Solar	NJ	66089	CANAL	5.5	Solar Photovoltaic	SUN	PV
2023	6	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center Hybrid	CO	63731	NT125	125.0	Batteries	MWH	BA
2023	6	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center Hybrid	CO	63731	NT325	325.0	Solar Photovoltaic	SUN	PV
2023	6	61298	Pine Gate Renewables	IPP	Sonny Solar LLC	GA	66418	PGR36	40.0	Solar Photovoltaic	SUN	PV
2023	6	65539	Pivot Energy	IPP	Pivot Energy Minnesota Solar 1	MN	66490	PEMS1	1.0	Solar Photovoltaic	SUN	PV
2023	6	65539	Pivot Energy	IPP	Pivot Energy Minnesota Solar 10	MN	66479	PEM10	1.0	Solar Photovoltaic	SUN	PV
2023	6	63439	Southern Idaho Solid Waste	Commercial	Milner Butte LFGE	ID	63755	E1	1.3	Landfill Gas	LFG	IC
2023	6	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center Hybrid	CO	63776	TW100	100.0	Batteries	MWH	BA
2023	6	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center Hybrid	CO	63776	TW300	248.0	Solar Photovoltaic	SUN	PV
2023	6	65128	VESI 25 LLC	IPP	Andover Energy Storage Project	NJ	65952	AD1	20.0	Batteries	MWH	BA
2023	6	64339	VESI Upton County BESS, LLC	IPP	Upton County BESS	TX	64811	UPT1	24.8	Batteries	MWH	BA
2023	6	64545	Vesper Energy Development LLC	IPP	Gaucht Solar	PA	65214	GCHOS	20.0	Solar Photovoltaic	SUN	PV
2023	6	64349	Yellowbud Solar LLC	IPP	Yellowbud Solar, LLC	OH	64832	YELLOW	274.0	Solar Photovoltaic	SUN	PV
2023	7	12647	ALLETE, Inc.	Electric Utility	Sylvan Solar	MN	66683	SYV	15.2	Solar Photovoltaic	SUN	PV
2023	7	64531	ASA Volney NY Solar I LLC	IPP	ASA Volney NY Solar I LLC	NY	65159	VOL1	5.0	Solar Photovoltaic	SUN	PV
2023	7	64273	Angel Fire Energy Facility, LLC	Electric Utility	Angel Fire Energy Facility	NM	64695	BESS	3.0	Batteries	MWH	BA
2023	7	64273	Angel Fire Energy Facility, LLC	Electric Utility	Angel Fire Energy Facility	NM	64695	TMEF1	9.8	Solar Photovoltaic	SUN	PV
2023	7	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARESS	150.0	Batteries	MWH	BA
2023	7	64266	Blue Jay Solar I, LLC	IPP	Blue Jay Solar I, LLC	TX	64672	BLUEJ	210.0	Solar Photovoltaic	SUN	PV
2023	7	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 5, LLC	AZ	65963	MS5	60.0	Solar Photovoltaic	SUN	PV
2023	7	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 5, LLC	AZ	65963	MSSB	60.0	Batteries	MWH	BA
2023	7	65752	DG Empire Shine, LLC	IPP	NY Van Buren II CSG	NY	66752	NGVB2	3.0	Solar Photovoltaic	SUN	PV
2023	7	64365	Daggett Solar Power 3 LLC	IPP	Daggett 3	CA	64852	DAGGB	149.0	Batteries	MWH	BA
2023	7	64365	Daggett Solar Power 3 LLC	IPP	Daggett 3	CA	64852	DAGGP	300.0	Solar Photovoltaic	SUN	PV
2023	7	65168	Desert Peak Energy Storage I, LLC	IPP	Desert Peak Energy Storage I	CA	65987	DP1	325.0	Batteries	MWH	BA
2023	7	65169	Desert Peak Energy Storage II, LLC	IPP	Desert Peak Energy Storage II	CA	65988	DP2	75.0	Batteries	MWH	BA
2023	7	65668	ELP Kipp Solar, LLC	IPP	ELP - Kipp	NY	66645	KIPP	3.5	Solar Photovoltaic	SUN	PV
2023	7	64438	Enel Green Power Roseland Solar, LLC	IPP	Roseland Solar Project, LLC	TX	65028	ROSEL	59.1	Batteries	MWH	BA
2023	7	64438	Enel Green Power Roseland Solar, LLC	IPP	Roseland Solar Project, LLC	TX	65028	ROSES	500.0	Solar Photovoltaic	SUN	PV
2023	7	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,114.0	Nuclear	NUC	ST
2023	7	60025	Greenbacker Renewable Energy Corporation	IPP	Cortez Solar 2, LLC	CO	66169	710	5.0	Solar Photovoltaic	SUN	PV
2023	7	60025	Greenbacker Renewable Energy Corporation	IPP	IGS AKC1	OH	65985	461	3.8	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2023

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	7	60025	Greenbacker Renewable Energy Corporation	IPP	IGS CMH4, LLC	OH	66010	460	4.2	Solar Photovoltaic	SUN	PV
2023	7	60025	Greenbacker Renewable Energy Corporation	IPP	IGS LAS1	NV	66099	459	1.0	Solar Photovoltaic	SUN	PV
2023	7	60025	Greenbacker Renewable Energy Corporation	IPP	IGS PCW1	OH	66069	462	3.1	Solar Photovoltaic	SUN	PV
2023	7	60025	Greenbacker Renewable Energy Corporation	IPP	Smithfield 3	UT	66147	801	2.0	Solar Photovoltaic	SUN	PV
2023	7	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Washington Solar Park 2	IN	66416	WASH2	9.9	Solar Photovoltaic	SUN	PV
2023	7	9234	Indiana Municipal Power Agency	Electric Utility	Richmond 6	IN	64252	RICH6	5.3	Solar Photovoltaic	SUN	PV
2023	7	65666	KDC Solar CV O'Donnell Property LLC	IPP	KDC Solar CV O'Donnell Property LLC	MD	66656	CVOD	2.0	Solar Photovoltaic	SUN	PV
2023	7	63289	Key Capture Energy	IPP	TX19 River Valley Storage 1	TX	65699	TX19	50.0	Batteries	MWH	BA
2023	7	63289	Key Capture Energy	IPP	TX21 River Valley Storage 2	TX	65700	TX21	50.0	Batteries	MWH	BA
2023	7	50123	Leeward Asset Management, LLC	IPP	Oak Trail Solar, LLC	NC	64683	GEN01	100.0	Solar Photovoltaic	SUN	PV
2023	7	64528	Lily Garden LLC	IPP	Lily Garden	MN	65160	CSG	1.0	Solar Photovoltaic	SUN	PV
2023	7	61944	MN8 Energy LLC	IPP	WMATA - S. Ave. Carport (East) (CSG)	MD	65961	GEN1	1.7	Solar Photovoltaic	SUN	PV
2023	7	62915	Madison Energy Holdings LLC	IPP	3Colton	MA	66320	3COLT	3.4	Solar Photovoltaic	SUN	PV
2023	7	12686	Mississippi Power Co	Electric Utility	Walnut Grove Demonstration Plant	MS	65697	1A	1.3	Batteries	MWH	BA
2023	7	12686	Mississippi Power Co	Electric Utility	Walnut Grove Demonstration Plant	MS	65697	1B	1.3	Solar Photovoltaic	SUN	PV
2023	7	65469	NY USLE Rome Rome-Oriskany LLC	IPP	Rome A CSG	NY	66398	NECA	5.0	Solar Photovoltaic	SUN	PV
2023	7	64358	New Market Solar	IPP	New Market Solar	OH	64853	NMS1	35.0	Solar Photovoltaic	SUN	PV
2023	7	15296	New York Power Authority	Electric Utility	Willis Battery Storage	NY	63238	WB1	20.0	Batteries	MWH	BA
2023	7	65204	Niagara Depot Solar, LLC	IPP	Niagara Depot Solar	NY	66040	23204	3.5	Solar Photovoltaic	SUN	PV
2023	7	65250	Rafterville Solar, LLC	IPP	Rafterville Solar	MN	66084	14508	1.0	Solar Photovoltaic	SUN	PV
2023	7	65265	Repsol Renewables NA	IPP	Jicarilla Solar 1 LLC	NM	66163	JICB1	20.0	Batteries	MWH	BA
2023	7	65265	Repsol Renewables NA	IPP	Jicarilla Solar 1 LLC	NM	66163	JICS1	50.0	Solar Photovoltaic	SUN	PV
2023	7	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC Hybrid	TX	62561	BA	50.0	Batteries	MWH	BA
2023	7	64915	SR McKellar, LLC	IPP	SR McKellar	TN	65629	SRMCK	70.0	Solar Photovoltaic	SUN	PV
2023	7	65307	SR Snipesville III, LLC	IPP	SR Snipesville III	GA	66171	SNIP3	107.0	Solar Photovoltaic	SUN	PV
2023	7	63275	Samoset Solar, LLC	IPP	Samoset Solar	ME	63551	PGR21	2.0	Solar Photovoltaic	SUN	PV
2023	7	65652	Sonoran Solar Energy, LLC	IPP	Sonoran Solar Energy	AZ	66627	SON13	260.0	Batteries	MWH	BA
2023	7	65161	South Garden LLC	IPP	South Garden	MN	65989	MNC01	1.0	Solar Photovoltaic	SUN	PV
2023	7	60531	Standard Solar	IPP	Holly Spring Meadows	MD	66819	HOLLY	1.2	Solar Photovoltaic	SUN	PV
2023	7	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	GT10	221.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	7	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	GT11	221.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	7	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	GT9	221.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	7	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S4	CA	66677	BESS	18.8	Batteries	MWH	BA
2023	7	61950	Terra-Gen Operating Co-Solar	IPP	Lockhart Solar PV II	CA	66699	LOC2	75.0	Solar Photovoltaic	SUN	PV
2023	7	61950	Terra-Gen Operating Co-Solar	IPP	Lockhart Solar PV, LLC	CA	10444	LOC1	85.0	Solar Photovoltaic	SUN	PV
2023	7	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	C02	1.9	Solar Photovoltaic	SUN	PV
2023	7	60947	Tesla Inc.	IPP	Berrenda Mesa Water District	CA	65073	PV1	6.4	Solar Photovoltaic	SUN	PV
2023	7	65173	United States Solar Corporation	IPP	Courtland CSG LLC	MN	66029	CLCSG	1.0	Solar Photovoltaic	SUN	PV
2023	7	65173	United States Solar Corporation	IPP	USS Dressen Family Solar LLC	MN	65991	USSDF	1.0	Solar Photovoltaic	SUN	PV
2023	7	65173	United States Solar Corporation	IPP	USS Golly Gee Solar LLC	MN	65986	USSGG	1.0	Solar Photovoltaic	SUN	PV
2023	7	65173	United States Solar Corporation	IPP	USS Wolf Solar LLC	MN	65992	USSWF	1.0	Solar Photovoltaic	SUN	PV
2023	7	65173	United States Solar Corporation	IPP	USS Wonder Solar LLC	MN	65993	USSWN	1.0	Solar Photovoltaic	SUN	PV
2023	7	64569	West Texas Solar Project II LLC	IPP	Taygete II Energy Project	TX	64075	TAYG2	203.8	Solar Photovoltaic	SUN	PV
2023	7	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W11	18.8	Natural Gas Internal Combustion Engine	NG	IC
2023	7	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W12	18.8	Natural Gas Internal Combustion Engine	NG	IC
2023	7	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W13	18.8	Natural Gas Internal Combustion Engine	NG	IC
2023	7	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W14	18.8	Natural Gas Internal Combustion Engine	NG	IC
2023	7	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W15	18.8	Natural Gas Internal Combustion Engine	NG	IC
2023	7	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W16	18.8	Natural Gas Internal Combustion Engine	NG	IC
2023	7	20860	Wisconsin Public Service Corp	Electric Utility	Weston RICE	WI	66059	W17	18.8	Natural Gas Internal Combustion Engine	NG	IC
2023	7	65642	Wolf Tank Storage LLC	IPP	Wolf Tank Storage	TX	66616	1	150.0	Batteries	MWH	BA
2023	7	65453	Yellow Pine Solar, LLC	IPP	Yellow Pine Solar	NV	66357	YPES	48.8	Batteries	MWH	BA
2023	7	65453	Yellow Pine Solar, LLC	IPP	Yellow Pine Solar	NV	66357	YPS1	93.8	Solar Photovoltaic	SUN	PV
2023	8	57416	Acciona Energy USA Global, LLC	IPP	Cunningham Storage	TX	65410	SPUT	190.0	Batteries	MWH	BA
2023	8	65395	Ameresco HCE Solar LLC	IPP	Ameresco HCE Solar LLC	CO	66271	HCEBA	5.0	Batteries	MWH	BA
2023	8	65395	Ameresco HCE Solar LLC	IPP	Ameresco HCE Solar LLC	CO	66271	HCEPV	4.5	Solar Photovoltaic	SUN	PV
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB1	2.7	Petroleum Liquids	DFO	IC
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB2	2.7	Petroleum Liquids	DFO	IC
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB3	2.7	Petroleum Liquids	DFO	IC
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB4	2.7	Petroleum Liquids	DFO	IC
2023	8	63803	Apex Solar LLC	IPP	Apex Solar	MT	64189	RSNAK	80.0	Solar Photovoltaic	SUN	PV
2023	8	65412	BPL Files Solar LLC	IPP	BPL Files Solar	TX	66324	FILES	157.5	Solar Photovoltaic	SUN	PV
2023	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 1	CA	66533	BCE11	10.0	Solar Photovoltaic	SUN	PV
2023	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 1	CA	66533	BCE12	10.0	Batteries	MWH	BA
2023	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 2	CA	66532	BCE21	10.0	Solar Photovoltaic	SUN	PV
2023	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 2	CA	66532	BCE22	10.0	Batteries	MWH	BA
2023	8	5248	Dominion Energy Inc.	Electric Utility	Piney Creek Solar	VA	62768	PCSOL	80.0	Solar Photovoltaic	SUN	PV
2023	8	58135	Ecos Energy LLC	IPP	Gray Solar	VT	66873	GRAY	2.2	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2023

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	8	64520	Enxigx Aditya, LLC	IPP	Enxigx Aditya, LLC	VA	66151	ENX13	11.5	Solar Photovoltaic	SUN	PV
2023	8	62856	Forefront Power, LLC	IPP	CA - Ventura Co CCD - Moorpark College	CA	65365	17024	2.6	Solar Photovoltaic	SUN	PV
2023	8	65491	Hayhurst New Mexico Solar	IPP	Hayhurst New Mexico Solar	NM	66412	HHNM	20.0	Solar Photovoltaic	SUN	PV
2023	8	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Middletown Solar Park	IN	66366	MDDL	1.4	Solar Photovoltaic	SUN	PV
2023	8	61944	MN8 Energy LLC	IPP	RIC - Hanover (CSG)	NY	66272	GEN1	5.0	Solar Photovoltaic	SUN	PV
2023	8	61944	MN8 Energy LLC	IPP	Summit - Lysander (CSG)	NY	66274	GEN1	3.5	Solar Photovoltaic	SUN	PV
2023	8	65399	NMRD Data Center III, LLC	IPP	NMRD Data Center III, LLC	NM	66287	NMRD3	50.0	Solar Photovoltaic	SUN	PV
2023	8	65339	North Central Valley Energy Storage, LLC	IPP	North Central Valley	CA	66208	NCV	132.0	Batteries	MWH	BA
2023	8	14232	Otter Tail Power Co	Electric Utility	Hoot Lake Solar	MN	65066	1	49.9	Solar Photovoltaic	SUN	PV
2023	8	65154	Phelan Solar LLC	IPP	Sheep Creek Community Solar Farm	CA	65970	1	3.0	Solar Photovoltaic	SUN	PV
2023	8	64610	Powells Creek Farm Solar, LLC	IPP	Powells Creek Solar - Hybrid	VA	65305	SOLAR	70.0	Solar Photovoltaic	SUN	PV
2023	8	64135	Resurgence Solar	IPP	Resurgence Solar	CA	64489	GEN1	90.0	Solar Photovoltaic	SUN	PV
2023	8	64135	Resurgence Solar	IPP	Resurgence Solar	CA	64489	GEN2	75.0	Batteries	MWH	BA
2023	8	65647	Resurgence Solar II	IPP	Resurgence Solar II	CA	66620	GEN2	40.0	Batteries	MWH	BA
2023	8	65447	Royal Solar Partners, LLC	IPP	Royal Solar Partners (CSG)	NY	66361	ROSP1	5.0	Solar Photovoltaic	SUN	PV
2023	8	65446	Ruler Solar Partners, LLC	IPP	Ruler Solar Partners (CSG)	NY	66360	RUSP1	4.9	Solar Photovoltaic	SUN	PV
2023	8	63640	Safari Energy, LLC	IPP	Reidsville Renewables, Inc.	GA	65995	20052	3.0	Solar Photovoltaic	SUN	PV
2023	8	64994	SolRiver Capital LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV
2023	8	64994	SolRiver Capital LLC	IPP	Shorthorn Holdings	SC	60028	PV1	8.9	Solar Photovoltaic	SUN	PV
2023	8	65480	VC Renewables	IPP	Carbou	ME	66402	CRBOU	4.1	Solar Photovoltaic	SUN	PV
2023	8	54736	VEST Pomona Energy Storage, Inc.	IPP	VEST Pomona	CA	50300	BESS2	20.0	Batteries	MWH	BA
2023	8	20856	Wisconsin Power & Light Co	Electric Utility	Boaz Microgrid Battery	WI	65633	BESS1	0.3	Batteries	MWH	BA
2023	9	65718	AFTW Holdings, LLC	IPP	Wheeler Ridge	CA	66713	WHRPV	4.5	Solar Photovoltaic	SUN	PV
2023	9	59050	Algonquin Power Co	IPP	Sandy Ridge Wind 2, LLC	PA	65741	SRW2	87.6	Onshore Wind Turbine	WIND	WT
2023	9	64844	Bell Ridge Solar, LLC	IPP	Bell Ridge Solar	FL	65519	BRS	74.5	Solar Photovoltaic	SUN	PV
2023	9	63466	Conductive Power	IPP	Ocotillo Wells	CA	65820	OWS	50.0	Solar Photovoltaic	SUN	PV
2023	9	4226	Consolidated Edison Co-NY Inc	Electric Utility	Fox Hills Battery Station	NY	65035	ESSFH	7.5	Batteries	MWH	BA
2023	9	6455	Duke Energy Florida, LLC	Electric Utility	John Hopkins Middle School Microgrid	FL	64752	PV1	1.0	Solar Photovoltaic	SUN	PV
2023	9	58970	Ecoplexus, Inc	IPP	Kern Valley SP	CA	63875	KRNVL	3.0	Solar Photovoltaic	SUN	PV
2023	9	65807	Energy 49, LLC	IPP	Houston Solar	AK	66887	HOU	6.0	Solar Photovoltaic	SUN	PV
2023	9	62856	Forefront Power, LLC	IPP	CA - Madera USD - Madera South HS	CA	65615	19009	1.2	Solar Photovoltaic	SUN	PV
2023	9	61194	Generate Capital	IPP	Bullitt Farm Solar	NY	66490	10998	5.0	Solar Photovoltaic	SUN	PV
2023	9	60025	Greenbacker Renewable Energy Corporation	IPP	Fall River Solar, LLC	SD	64968	452	80.0	Solar Photovoltaic	SUN	PV
2023	9	64972	IP Oberon II, LLC	IPP	Oberon II Solar Project	CA	65735	OBIB	125.0	Batteries	MWH	BA
2023	9	64971	IP Oberon LLC	IPP	Oberon Solar Project	CA	65734	OBIBS	125.0	Batteries	MWH	BA
2023	9	64971	IP Oberon LLC	IPP	Oberon Solar Project	CA	65734	OBIPV	250.0	Solar Photovoltaic	SUN	PV
2023	9	50123	Leeward Asset Management, LLC	IPP	Big Plain Solar, LLC	OH	64635	GEN01	196.0	Solar Photovoltaic	SUN	PV
2023	9	64442	MN CSG 2019-17 LLC	IPP	MN CSG 2019-17 LLC	MN	65004	MOORE	1.0	Solar Photovoltaic	SUN	PV
2023	9	64510	MN CSG 2019-53 LLC	IPP	Eikmeier CSG	MN	65100	EIKMR	1.0	Solar Photovoltaic	SUN	PV
2023	9	65590	MN CSG 2019-54 DE LLC	IPP	MN CSG 2019-54 LLC	MN	66548	RETTE	1.0	Solar Photovoltaic	SUN	PV
2023	9	61944	MN8 Energy LLC	IPP	Summit - Scriba CSG	NY	66322	GEN1	5.0	Solar Photovoltaic	SUN	PV
2023	9	61944	MN8 Energy LLC	IPP	Toms River CSG	NJ	66751	GEN1	4.0	Solar Photovoltaic	SUN	PV
2023	9	61944	MN8 Energy LLC	IPP	WMATA - Anacostia CSG	DC	65958	GEN1	1.1	Solar Photovoltaic	SUN	PV
2023	9	62915	Madison Energy Holdings LLC	IPP	Bryan Floyd	GA	66936	FLOYD	1.9	Solar Photovoltaic	SUN	PV
2023	9	65038	Magdaline Solar, LLC	IPP	Magdaline Solar, LLC	SC	65782	MAG	2.0	Solar Photovoltaic	SUN	PV
2023	9	56990	NJR Clean Energy Ventures Corporation	IPP	Howard Lane Solar	RI	65386	HOWRD	3.0	Solar Photovoltaic	SUN	PV
2023	9	65468	NY USLE Oswego SR104 LLC	IPP	Oswego	NY	66387	NECA	5.0	Solar Photovoltaic	SUN	PV
2023	9	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC1	394.4	Natural Gas Fired Combined Cycle	NG	CT
2023	9	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC2	264.5	Natural Gas Fired Combined Cycle	NG	CA
2023	9	56215	RWE Renewables Americas, LLC	IPP	Fifth Standard Solar PV, LLC (Hybrid)	CA	64197	FTHSB	117.0	Batteries	MWH	BA
2023	9	56215	RWE Renewables Americas, LLC	IPP	Fifth Standard Solar PV, LLC (Hybrid)	CA	64197	FTHSS	150.0	Solar Photovoltaic	SUN	PV
2023	9	65647	Resurgence Solar II	IPP	Resurgence Solar II	CA	66620	GEN1	48.0	Solar Photovoltaic	SUN	PV
2023	9	65058	SV CSG Baileyville 1 LLC	IPP	SV CSG Baileyville 1 LLC	IL	65796	BAIL1	1.6	Solar Photovoltaic	SUN	PV
2023	9	65077	SV CSG Baileyville 2 LLC	IPP	SV CSG Baileyville 2 LLC	IL	65890	BAIL2	1.6	Solar Photovoltaic	SUN	PV
2023	9	65057	SV CSG Barrass Farms II LLC	IPP	SV CSG Barrass Farms II LLC	IL	65803	BARAS	1.7	Solar Photovoltaic	SUN	PV
2023	9	65727	Saint Energy Storage II LLC	IPP	Saint Energy Storage II LLC	AZ	66716	SB123	100.0	Batteries	MWH	BA
2023	9	65811	Solops 371 Hoes LLC	IPP	Solops 371 Hoes LLC	NJ	66889	CAVOP	1.0	Solar Photovoltaic	SUN	PV
2023	9	65811	Solops 371 Hoes LLC	IPP	Solops 371 Hoes LLC	NJ	66889	ROOF	0.3	Solar Photovoltaic	SUN	PV
2023	9	64801	Storey Energy Center, LLC	IPP	Storey Solar and Storage	AZ	65956	STOBA	88.0	Batteries	MWH	BA
2023	9	62048	Westlands Almond LLC	IPP	Almond	CA	62546	ALMND	19.9	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, 2023

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
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	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2023	1	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2023	1	13698	North Central Public Pwr Dist	Electric Utility	Plainview Municipal Power	NE	2297	1	1.1	Petroleum Liquids	DFO	IC
2023	1	13698	North Central Public Pwr Dist	Electric Utility	Plainview Municipal Power	NE	2297	3	0.9	Petroleum Liquids	DFO	IC
2023	1	13698	North Central Public Pwr Dist	Electric Utility	Plainview Municipal Power	NE	2297	4	1.2	Petroleum Liquids	DFO	IC
2023	1	13698	North Central Public Pwr Dist	Electric Utility	Plainview Municipal Power	NE	2297	5	1.8	Petroleum Liquids	DFO	IC
2023	1	4208	Phillips 66 Company	Industrial	Phillips 66 Carbon Plant	CA	50388	GEN1	20.0	Petroleum Coke	PC	ST
2023	1	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	2	75.4	Natural Gas Steam Turbine	NG	ST
2023	2	59774	Crawfordsville Energy LLC	IPP	Crawfordsville Power Plant	IN	1024	4	10.6	Conventional Steam Coal	BIT	ST
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	1	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	10	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	11	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	12	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	13	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	14	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	15	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	16	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	17	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	18	1.6	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	2	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	3	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	4	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	5	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	6	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	7	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	8	1.4	Landfill Gas	LFG	IC
2023	2	55858	EDL Inc	IPP	Loraine County Project	OH	56869	9	1.6	Landfill Gas	LFG	IC
2023	2	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2023	2	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2023	2	59828	Solid Waste Authority of Central Ohio	IPP	Model Gas Power Station	OH	56863	1	1.4	Landfill Gas	LFG	IC
2023	2	59828	Solid Waste Authority of Central Ohio	IPP	Model Gas Power Station	OH	56863	2	1.4	Landfill Gas	LFG	IC
2023	2	63560	TDX Sand Point Generating, LLC	Electric Utility	Sand Point	AK	1	5	0.4	Petroleum Liquids	DFO	IC
2023	2	56630	Texico Wind LP	IPP	Texico Wind Ranch LP	NM	57258	1	0.7	Onshore Wind Turbine	WND	WT
2023	2	56630	Texico Wind LP	IPP	Texico Wind Ranch LP	NM	57258	2	0.6	Onshore Wind Turbine	WND	WT
2023	2	56630	Texico Wind LP	IPP	Texico Wind Ranch LP	NM	57258	3	0.6	Onshore Wind Turbine	WND	WT
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	9454	ArcelorMittal Cleveland Inc	Industrial	ArcelorMittal Cleveland Inc	OH	10398	GEN3	10.0	Other Gases	BFG	ST
2023	3	9454	ArcelorMittal Cleveland Inc	Industrial	ArcelorMittal Cleveland Inc	OH	10398	GEN5	8.0	Other Gases	BFG	ST
2023	3	9454	ArcelorMittal Cleveland Inc	Industrial	ArcelorMittal Cleveland Inc	OH	10398	GENA	12.0	Other Gases	BFG	ST
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT1	13.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT2	13.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT3	16.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	17539	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT4	16.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	50174	Electric Transmission Texas LLC	Electric Utility	ETT Presidio NaS Battery	TX	60506	BOB	4.0	Batteries	MWH	BA
2023	3	55738	Pixelle Androscoggin LLC	Industrial	Androscoggin Energy Center	ME	55031	CT01	48.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	55738	Pixelle Androscoggin LLC	Industrial	Androscoggin Energy Center	ME	55031	CT02	40.7	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	55738	Pixelle Androscoggin LLC	Industrial	Androscoggin Energy Center	ME	55031	CT03	40.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	3	55738	Pixelle Androscoggin LLC	Industrial	Androscoggin Mill	ME	54085	GEN1	25.0	Natural Gas Steam Turbine	NG	ST
2023	3	55738	Pixelle Androscoggin LLC	Industrial	Androscoggin Mill	ME	54085	GEN2	25.0	Natural Gas Steam Turbine	NG	ST
2023	3	55738	Pixelle Androscoggin LLC	Industrial	Androscoggin Mill	ME	54085	GEN3	30.0	Natural Gas Steam Turbine	NG	ST
2023	3	17698	Southwestern Electric Power Co	Electric Utility	Pirkey	TX	7902	1	650.0	Conventional Steam Coal	LIG	ST
2023	4	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	845	ST3	395.0	Natural Gas Steam Turbine	NG	ST
2023	5	221	Alaska Village Elec Coop, Inc	Electric Utility	Mountain Village	AK	6329	3B	0.5	Petroleum Liquids	DFO	IC
2023	5	23815	Blue Ridge Paper Products Inc	Industrial	Canton North Carolina	NC	50244	GEN8	7.5	Wood/Wood Waste Biomass	BLQ	ST
2023	5	23815	Blue Ridge Paper Products Inc	Industrial	Canton North Carolina	NC	50244	GEN9	7.5	Wood/Wood Waste Biomass	BLQ	ST
2023	5	23815	Blue Ridge Paper Products Inc	Industrial	Canton North Carolina	NC	50244	GN11	7.5	Wood/Wood Waste Biomass	BLQ	ST
2023	5	23815	Blue Ridge Paper Products Inc	Industrial	Canton North Carolina	NC	50244	GN12	10.0	Wood/Wood Waste Biomass	BLQ	ST
2023	5	23815	Blue Ridge Paper Products Inc	Industrial	Canton North Carolina	NC	50244	GN13	12.5	Wood/Wood Waste Biomass	BLQ	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	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT1	8.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT10	16.0	Natural Gas Fired Combustion Turbine	NG	GT

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2023

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	5	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT11	16.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	60777	Mill Solar 1 LLC	IPP	MILL SOLAR 1	NC	61160	MILL1	1.4	Solar Photovoltaic	SUN	PV
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-1	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-2	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-3	36.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-4	32.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-1	34.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-2	35.7	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-3	33.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-4	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-1	33.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-2	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-3	35.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-4	35.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	14354	PacifiCorp	Electric Utility	Copco 2	CA	295	1	17.0	Conventional Hydroelectric	WAT	HY
2023	5	14354	PacifiCorp	Electric Utility	Copco 2	CA	295	2	17.0	Conventional Hydroelectric	WAT	HY
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	6	23815	Blue Ridge Paper Products Inc	Industrial	Canton North Carolina	NC	50244	GN10	7.5	Wood/Wood Waste Biomass	BLQ	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	59484	Framingham State University	Commercial	Framingham State University Plant	MA	59717	TOW1	0.2	Petroleum Liquids	DFO	IC
2023	6	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST2	421.8	Conventional Steam Coal	BIT	ST
2023	6	9417	Interstate Power and Light Co	Electric Utility	Lansing	IA	1047	4	241.4	Conventional Steam Coal	SUB	ST
2023	6	12384	Midwest Generations EME LLC	IPP	Joliet 9	IL	874	6	314.0	Natural Gas Steam Turbine	NG	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	14856	Petersburg Borough - (AK)	Electric Utility	Petersburg	AK	91	3	1.6	Conventional Hydroelectric	WAT	HY
2023	6	16534	Sacramento Municipal Util Dist	Electric Utility	Solano Wind	CA	7526	1	13.1	Onshore Wind Turbine	WND	WT
2023	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek	PA	3148	CTG1	18.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek	PA	3148	CTG2	17.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	15276	TalenEnergy Martins Creek LLC	IPP	TalenEnergy Martins Creek	PA	3148	CTG4	17.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	31	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	32	46.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	7	58615	NRG Homer City Services LLC	IPP	Homer City Generating Station	PA	3122	3	648.9	Conventional Steam Coal	BIT	ST
2023	8	58615	NRG Homer City Services LLC	IPP	Homer City Generating Station	PA	3122	2	613.3	Conventional Steam Coal	BIT	ST
2023	9	12384	Midwest Generations EME LLC	IPP	Joliet 29	IL	384	7	518.0	Natural Gas Steam Turbine	NG	ST
2023	9	12384	Midwest Generations EME LLC	IPP	Joliet 29	IL	384	8	518.0	Natural Gas Steam Turbine	NG	ST
2023	9	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU1	2.8	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 6.5. 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	10	61222	174 Power Global Corp.	IPP	Ellis Solar LLC	TX	63797	GER01	80.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	80.0
2023	10	65576	AC Power 14, LLC	IPP	NY Lancaster Gunnville Rd Site 1 Solar	NY	66528	18237	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	10	65576	AC Power 14, LLC	IPP	NY Lancaster Shiner Rd Site 2 Solar	NY	66529	21013	5.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.2
2023	10	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	10	64528	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	10	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	10	64529	ASA Gouverneur NY Solar I LLC	IPP	ASA Gouverneur NY Solar I LLC	NY	65157	GOV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	10	64530	ASA Gouverneur NY Solar II LLC	IPP	ASA Gouverneur NY Solar II LLC	NY	65158	GOV2	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2023	10	57416	Acciona Energy USA Global, LLC	IPP	Fort Bend Solar LLC	TX	63985	FBS	240.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	240.0
2023	10	57416	Acciona Energy USA Global, LLC	IPP	High Point Solar LLC	IL	63838	HPS	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2023	10	59573	Amazon	IPP	Amazon Bakersfield 1 Solar Project	CA	65692	ABS1P	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.2
2023	10	59573	Amazon	IPP	Amazon Bakersfield 1 Solar Project	CA	65692	ABS2A	1.6	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.6
2023	10	40577	American Mun Power-Ohio, Inc	Electric Utility	Quakertown PA BTM	PA	66450	PB1	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	10	40577	American Mun Power-Ohio, Inc	Electric Utility	Quakertown PA BTM	PA	66450	PB2	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	10	40577	American Mun Power-Ohio, Inc	Electric Utility	Quakertown PA BTM	PA	66450	PB3	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	10	65209	Arctian Saddleback Solar, LLC	IPP	Arctian Saddleback Solar	ME	66043	63233	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2023	10	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	1	200.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	200.0
2023	10	63784	Azure Sky Wind Project, LLC	IPP	Azure Sky Wind Project, LLC Hybrid	TX	64164	ASWBE	120.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	120.0
2023	10	65854	BE-Pine1 LLC	IPP	Pine 1 Solar	PA	66943	2-114	17.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	17.1
2023	10	65855	BE-Pine2 LLC	IPP	Pine 2 Solar	PA	66944	2-115	17.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	17.1
2023	10	65060	BPL Crown Solar LLC	IPP	BPL Crown Solar LLC	TX	64259	OCICR	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2023	10	65061	BPL Sol Solar LLC	IPP	BPL Sol Solar LLC	TX	64260	OCISO	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2023	10	65838	Big Wolf Solar LLC	IPP	Big Wolf Solar	MN	66917	1	1.0	Solar Photovoltaic	SUN	PV	(TS) Regulatory approvals received. Not under construction	1.0
2023	10	65273	Blue Elk VII Solar, LLC	IPP	Blue Elk VII Solar, LLC	MI	66104	BEVII	12.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	12.5
2023	10	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	10	65044	Castle Gap Wind Power, LLC	IPP	Castle Gap Wind	TX	65790	CGWIN	196.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	196.8
2023	10	65514	Catalyzx Manteca 730 Spreckels Avenue Microgrid LLC	IPP	CA Manteca 730 Spreckels Ave	CA	66509	B8259	1.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.5
2023	10	63526	Chestnut Westside, LLC	IPP	Chestnut	CA	63849	BESS1	135.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	135.0
2023	10	65326	Chestnut Westside, LLC	IPP	Chestnut	CA	63849	CHNU1	150.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.6
2023	10	20141	City of Washington - (KS)	Electric Utility	Washington	KS	1329	10	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.1
2023	10	20141	City of Washington - (KS)	Electric Utility	Washington	KS	1329	9	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.1
2023	10	65311	Clearwater Wind East, LLC	IPP	Clearwater Wind East	MT	66183	CWE	208.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	208.2
2023	10	65312	Clearwater Wind II, LLC	IPP	Clearwater Wind II	MT	66184	CW2	102.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	102.8
2023	10	65313	Crane 2 BESS, LLC	IPP	Revolution	TX	66170	1	150.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	150.0
2023	10	65718	Crystal Farms Local Solar, LLC	IPP	Crystal Farms Local Solar	CA	66714	CRYPV	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2023	10	62161	Cubco USA, LLC	IPP	Delta's Edge Solar	MS	66759	DELTA	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2023	10	65677	Dimension Energy LLC	IPP	Franklin Solar 1 LLC (Dimension Energy)	NJ	66963	FRAN1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	10	65677	Dimension Energy LLC	IPP	Franklin Solar 2 LLC (Dimension Energy)	NJ	66964	FRAN2	3.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.8
2023	10	65677	Dimension Energy LLC	IPP	Mayhill Solar LLC	NJ	66965	MAYHI	1.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.2
2023	10	64872	Distributed Solar Development, LLC	IPP	ADP Parsippany NJ	NJ	66796	P3324	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	10	64872	Distributed Solar Development, LLC	IPP	Source Power II - Taft	NJ	66936	P5567	3.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.7
2023	10	5248	Dominion Energy Inc.	Electric Utility	Dry Bridge Storage	VA	65544	DBS1	23.0	Batteries	MWH	BA	(U) Under construction, more than 50 percent complete	23.0
2023	10	5248	Dominion Energy Inc.	Electric Utility	Other Creek Solar	VA	63909	OTTER	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2023	10	58970	Ecoplexus, Inc	IPP	Camp San Luis Obispo	CA	63870	CPLSO	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2023	10	6395	Flathead Electric Coop Inc	Electric Utility	Flathead Landfill to Gas Energy Facility	MT	64505	LFGDE	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2023	10	62856	Forefront Power, LLC	IPP	CA - DGS RFP - RJ Donovan State Prison	CA	65104	15111	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	10	61194	Generate Capital	IPP	Davis Solar	NY	66488	BAT	2.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2023	10	61122	Great River Hydro, LLC	IPP	St Lawrence	NH	6351	4	4.0	Conventional Hydroelectric	WAT	HT	(V) Under construction, more than 50 percent complete	4.0
2023	10	60025	Greenbacker Renewable Energy Corporation	IPP	GSG VGT	VT	66098	573	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	10	60025	Greenbacker Renewable Energy Corporation	IPP	Pleasant Street	ME	66165	379	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	10	65275	Greenstone Solar, LLC	IPP	Greenstone Solar, LLC	MI	66109	GRSS	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	10	65451	Grizzly Ridge Solar LLC	Commercial	Grizzly Ridge Solar	TX	66410	375	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2023	10	65076	HEN Infrastructure, L.L.C.	IPP	Junction (TX)	TX	65830	JUNCT	9.9	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	9.9
2023	10	24205	HF Sinclair Parco Refining LLC	Industrial	Sinclair Oil Refinery	WY	54374	NO7	2.2	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.2
2023	10	65783	Hajrouti Texas Solar	IPP	Hajrouti Texas Solar	TX	66880	HHTX	24.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	24.8
2023	10	64927	IP Lumina II, LLC	IPP	Lumina II Solar Project	TX	65644	LUMII	321.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	326.8
2023	10	64924	IP Lumina, LLC	IPP	Lumina Solar Project	TX	65645	LUMIN	320.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	326.6
2023	10	64972	IP Oberon II, LLC	IPP	Oberon II Solar Project	CA	65735	OBIP	250.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	288.2
2023	10	9234	Indiana Municipal Power Agency	Electric Utility	MPA Knightstown Solar Park	IN	66415	KNIGH	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2023	10	9234	Indiana Municipal Power Agency	Electric Utility	MPA Richmond Solar Park 7	IN	66367	RICH7	4.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.4
2023	10	43903	Kennecott Utah Copper	Industrial	Copperton Solar Plant No. 1	UT	64427	CSP1	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	10	62842	Lighthouse Renewable Energy Asset Management, LLC	IPP	Happy Solar 1	AR	63766	ARHA1	95.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	95.0
2023	10	65785	Lumina Sunbeam Development Holdings, LLC	IPP	ME Novel Lighthouse - Huggard Ave Solar	ME	66833	HUG	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2023	10	65042	MN CSG 2019-55 DE LLC	IPP	MN CSG 2019-55 LLC	MN	65792	STEGE	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	10	61944	MN8 Energy LLC	IPP	NYS - ELP Stillwater Solar	NY	65841	GEN1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	10	61944	MN8 Energy LLC	IPP	WYATA - Naylor Rd. Metro	MD	65960	GEN1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2023	10	65551	Mogador Solar, LLC	IPP	Mogador Solar	NY	66495	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	10	65864	Maine DG Solar Pittsfield, LLC	IPP	Pittsfield Solar (N. Main St)	ME	66956	74474	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2023	10	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	10	65274	Midcontinent Solar, LLC	IPP	Midcontinent Solar, LLC	MI	66108	MCS	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	10	61153	Montevue Lane Solar, LLC	IPP	Fort Detrick Solar PV	MD	61552	FDSBS	6.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	6.0
2023	10	65828	Myrtle Solar, LLC	IPP	Myrtle Solar, LLC	TX	66910	MYR	313.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	313.0
2023	10	65989	NUR Clean Energy Ventures Corporation	IPP	Old Bridge Glades Landfill	NJ	66445	OBGLS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	2.0
2023	10	65770	NY USLE Copenhagen CR194 LLC	IPP	New Market Solar	NY	66817	COPE	4.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2023	10	64358	New Market Solar	IPP	New Market Solar	OH	64853	NMS2	65.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	65.0
2023	10	65276	Newport Solar, LLC	IPP	Newport Solar Project	AR	66112	U1	180.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	180.0
2023	10	63502	Parin Solar, LLC	IPP	Parin Solar	NC	63827	96	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2023	10	63359	REA Investments, LLC	IPP	Novel Milbradt Solar LLC	MN	64729	MLBRT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	10	64178	Ranchland Wind Storage, LLC	IPP	Ranchland Wind Storage	TX	64545	BA	73.0					

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	10	61677	Sol Systems	IPP	Prairie Creek Solar	IL	66826	PC923	30.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	30.0
2023	10	65766	Solar DG NJ BEMS East, LLC	IPP	BEMS East Solar	NJ	66802	BEMSE	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2023	10	65767	Solar DG NJ BEMS West, LLC	IPP	BEMS West Solar	NJ	66803	BEMSW	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2023	10	61668	Strauss Wind LLC	IPP	Strauss Wind Farm	CA	62113	ST_C	95.5	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	95.5
2023	10	64993	Surfower Energy Center, LLC	IPP	Surfower Energy Center, LLC	KS	65738	1111	200.0	Onshore Wind Turbine	WIND	WT	(V) Under construction, more than 50 percent complete	200.0
2023	10	65553	Sweetland Wind Farm, LLC	IPP	Sweetland Wind Farm, LLC	SD	66496	SLW	200.0	Onshore Wind Turbine	WIND	WT	(TS) Construction complete, but not yet in commercial operation	200.0
2023	10	64287	Terra-Gen Operating Co-BESS	IPP	Sanborn BESS 3	CA	65672	BESS	169.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	169.0
2023	10	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E1B	CA	65674	BESS	136.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	136.0
2023	10	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E4	CA	65675	BESS	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	10	65173	United States Solar Corporation	IPP	USS Greweback Solar LLC	CO	65990	USSGB	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	10	20322	Wipac Int'l Services, Inc.	IPP	Stanton Battery Energy Storage	CA	66423	BESS31	68.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	68.8
2023	10	20858	Wisconsin Power & Light Co.	Electric Utility	Onion River	WI	65008	PV1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2023	10	65405	Woodruff County Solar	IPP	Woodruff County Solar	AR	66282	PV1	122.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	122.0
2023	11	63118	224WB Bme LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	110.0
2023	11	55963	AE Power Services LLC	IPP	Arche Energy Project, LLC	OH	65402	ARCHE	107.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	107.0
2023	11	64904	AES Clean Energy	IPP	McFarland A Solar and Storage	AZ	66636	BESS	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2023	11	64904	AES Clean Energy	IPP	McFarland A Solar and Storage	AZ	66636	MCFFRA	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2023	11	64904	AES Clean Energy	IPP	Northline Solar	NY	66449	NORTH	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2023	11	61012	AES Distributed Energy	IPP	Great Cove Solar	PA	65999	GC1	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2023	11	64532	ASA Clayton NY Solar 1 LLC	IPP	ASA Clayton NY Solar 1 LLC	NY	65161	CLA1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2023	11	64446	ASD Cotuit MA Solar LLC	IPP	ASD Cotuit MA Solar LLC	MA	65014	COT1	3.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.1
2023	11	64446	ASD Cotuit MA Solar LLC	IPP	ASD Cotuit MA Solar LLC	MA	65014	COT1B	2.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.5
2023	11	195	Alabama Power Co.	Electric Utility	Barry	AL	3	ASCI	385.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, more than 50 percent complete	464.0
2023	11	195	Alabama Power Co.	Electric Utility	Barry	AL	3	ASST	300.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	310.0
2023	11	64144	Arlington Energy Center II	IPP	Arlington Energy Center II	CA	64481	AEC2	133.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	133.0
2023	11	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	2	75.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	75.0
2023	11	65452	BWC Unity Pond LLC	IPP	BWC Unity Pond LLC	ME	66370	BENTN	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2023	11	64804	Ball Hill Wind Energy, LLC	IPP	Ball Hill Wind Energy, LLC	NV	65495	BALLH	107.5	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	107.5
2023	11	65269	Blue Elk IV Solar, LLC	IPP	Blue Elk IV Solar, LLC	MI	66102	BEIV	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	11	63869	Broad Reach Power	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(U) Under construction, more than 50 percent complete	25.0
2023	11	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	11	58939	Cameron Wind 1 LLC	IPP	Cameron Wind 1 LLC	TX	59118	SABAL	24.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	24.0
2023	11	65550	Catalyze Riverside 2356 Fleetwood Drive Microgrid LLC	IPP	CA Riverside 2356 Fleetwood Dr.	CA	66511	16262	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	11	65550	Catalyze Riverside 2356 Fleetwood Drive Microgrid LLC	IPP	CA Riverside 2356 Fleetwood Dr.	CA	66511	B6262	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	11	56789	Consolidated Edison Development Inc.	IPP	Timberland Solar	GA	65892	TSPV	140.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	140.0
2023	11	65621	Crane Garden LLC	IPP	Crane Garden	MN	66773	MG3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	11	34358	Curators of the University of Missouri	Commercial	MU Combined Heat and Power Plant	MO	50969	GEN10	8.0	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	9.0
2023	11	65793	DG Empire Lumen 2023, LLC	IPP	NY Sorrell Hill III CSG	NY	66856	NGSH2	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	11	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM45	2.8	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	2.8
2023	11	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM46	2.8	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	2.8
2023	11	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM47	2.8	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	2.8
2023	11	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM48	2.8	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	2.8
2023	11	64872	Distributed Solar Development, LLC	IPP	Derby Fuel Cell	CT	62588	MM49	2.8	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	2.8
2023	11	64872	Distributed Solar Development, LLC	IPP	Bayer - Whippany, NJ	NJ	66798	P5316	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2023	11	64872	Distributed Solar Development, LLC	IPP	Bishop Ranch - BR 8-P	CA	66800	4976	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	64872	Distributed Solar Development, LLC	IPP	Bishop Ranch - BR 8-P	CA	66800	4976B	0.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	0.5
2023	11	64872	Distributed Solar Development, LLC	IPP	FFF - NY Burch	NY	66827	P5651	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2023	11	64545	Duke Energy Florida, LLC	Electric Utility	John Hopkins Middle School Microgrid	FL	64752	ES1	3.0	Batteries	MWH	BA	(U) Under construction, more than 50 percent complete	3.0
2023	11	65565	East Victory Way Solar LLC	IPP	East Victory Way Solar	CO	66945	YVEA	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2023	11	65011	EI Sausz Ranch Wind, LLC	IPP	EI Sausz Ranch Wind, LLC	TX	65760	ELSAU	301.0	Onshore Wind Turbine	WIND	WT	(V) Under construction, more than 50 percent complete	301.0
2023	11	65660	Enchanted Rock	IPP	Enchanted Rock Turlock Irrigation District	CA	66680	UNIT1	11.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	11.7
2023	11	65660	Enchanted Rock	IPP	Enchanted Rock Turlock Irrigation District	CA	66680	UNIT2	11.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	11.7
2023	11	65660	Enchanted Rock	IPP	Enchanted Rock Turlock Irrigation District	CA	66680	UNIT3	11.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	11.7
2023	11	65660	Enchanted Rock	IPP	Enchanted Rock Turlock Irrigation District	CA	66680	UNIT4	11.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	11.7
2023	11	65550	EnerSmart Chula Vista Sub Station	IPP	EnerSmart Chula Vista Sub Station	CA	66005	CV150	3.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.0
2023	11	65550	EnerSmart Chula Vista Sub Station	IPP	EnerSmart Chula Vista Sub Station	CA	66005	CV151	3.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.0
2023	11	63081	Eus North America Management Partners LLC	IPP	Bearkat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WIND	WT	(TS) Construction complete, but not yet in commercial operation	162.1
2023	11	62856	Forefront Power, LLC	IPP	CA-DGS RFP-Salinas Valley State Prison	CA	65525	14066	3.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARBE1	690.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	690.0
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARPV1	380.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	380.0
2023	11	65479	Goleta Energy Storage, LLC	IPP	Goleta Energy Storage, LLC	CA	66394	GOLET1	60.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	60.0
2023	11	60025	Greenbacker Renewable Energy Corporation	IPP	Kosa	NY	66735	783	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	11	60025	Greenbacker Renewable Energy Corporation	IPP	Mahany	NY	66750	782	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	11	60025	Greenbacker Renewable Energy Corporation	IPP	Smithfield 1	UT	66144	523	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	11	60025	Greenbacker Renewable Energy Corporation	IPP	South Street - Middlebury	VT	66166	291	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	11	65076	HEN Infrastructure, LLC	IPP	Hamilton BESS	TX	66792	HAML	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2023	11	65076	HEN Infrastructure, LLC	IPP	Via Verde	TX	65837	VALVR	3.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	9.9
2023	11	64400	Hecate Energy Ramsey, LLC	IPP	Altkna Solar	TX	64927	AKS01	500.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	500.0
2023	11	65212	Hobnail Solar, LLC	IPP	Hobnail Solar	GA	66026	GA-03	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2023	11	65181	House Mountain	IPP	House Mountain	TX	66006	BA	63.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	73.2
2023	11	9191	Idaho Power Co	Electric Utility	Black Mesa BESS	ID	66326	1	40.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	40.0
2023	11	9191	Idaho Power Co	Electric Utility	Hemmingway BESS	ID	66325	1	80.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	11	48983	Invernergy Services LLC	IPP	Delash Solar Energy II LLC	TX	63884	GEN1	310.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	310.0
2023	11	48983	Invernergy Services LLC	IPP	Samson Solar Energy II LLC	TX	63882	GEN11	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	11	65665	KDC Solar CV Animal Control LLC	IPP	KDC Solar CV Animal Control LLC	MD	66655	CVAC	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	11	65663	KDC Solar CV Cedar Lane Park LLC	IPP	KDC Solar CV Cedar Lane Park LLC	MD	66653	CVCL	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	11	65086	Landrace Holdings, LLC	IPP	Landrace Holdings, LLC	SC	65655	LANDR	55.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	55.0
2023	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 2	PA	65077	PACT2	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 5	PA	65080							

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	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	11	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	11	61944	MN8 Energy LLC	IPP	NYB - 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	11	61944	MN8 Energy LLC	IPP	Summit - Onondago	NY	66273	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	11	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEE Simple Cycle Gas Turbine	MA	62569	GT 1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	65.0
2023	11	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	4	88.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	88.0
2023	11	65771	NY USLE Glenville Freemans Bridge LLC	IPP	Glenville Solar	NY	66816	GLEN	4.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2023	11	62836	Navisun LLC	IPP	Acushnet MA 1	MA	64706	ACNT1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	62836	Navisun LLC	IPP	Acushnet MA 2	MA	64707	ACNT2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	65369	OEE XXXIII LLC	IPP	Martin Marietta Wind Project	OH	66261	WTG01	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2023	11	65369	OEE XXXIII LLC	IPP	Martin Marietta Wind Project	OH	66261	WTG02	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2023	11	65369	OEE XXXIII LLC	IPP	Martin Marietta Wind Project	OH	66261	WTG03	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2023	11	64933	Ortega Grid, LLC	IPP	Ortega Grid, LLC	CA	65666	HEORG	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	11	64743	PPM Solar LLC	IPP	Frederia Solar (KS)	KS	66570	FS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	11	65517	Paris Farm Solar, LLC	IPP	Eiffel Solar Project	TX	66471	EJFEL	240.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	240.0
2023	11	65619	Peppin Garden LLC	IPP	Peppin Garden	MN	66577	MNCO2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	11	64752	Pensada Holdings, LLC	IPP	Pensada Holdings, LLC	NC	65426	GEN11	7.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.5
2023	11	48556	Petersburg Borough - (AK)	Electric Utility	Petersburg	AK	91	4	1.8	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	1.8
2023	11	64540	Phare Garden LLC	IPP	Phare Garden	MN	65223	CGS	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.9
2023	11	61298	Pine Gate Renewables	IPP	East Nash PV2	NC	63789	ENSH2	23.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	23.4
2023	11	65577	Potsdam Community Solar 2, LLC	IPP	NY Potsdam 28 Hamilton St. Solar	NY	66330	21013	4.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.4
2023	11	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	11	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	11	65791	Robin Hollow Solar, LLC	IPP	Robin Hollow Solar	RI	66555	RS440	40.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.7
2023	11	65843	SMT Alamo LLC	IPP	SMT Alamo LLC	TX	66929	SMTAL	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	11	65847	SMT Harlingen II LLC	IPP	SMT Harlingen II LLC	TX	66933	SMTM2	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	11	65838	SMT Mercedes LLC	IPP	SMT Mercedes LLC	TX	66926	SMTNM	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	11	65839	SMT Mission LLC	IPP	SMT Mission LLC	TX	66927	SMTMB	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	11	65844	SMT Santa Rosa LLC	IPP	SMT Santa Rosa LLC	TX	66928	SMTSR	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	11	64740	Santa Paula Energy Storage, LLC	IPP	Santa Paula Energy Storage LLC	CA	65397	SP1	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2023	11	65474	Signal Street Operating, LLC	IPP	Alta Sea	CA	66395	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2023	11	65617	Sturgeon Garden LLC	IPP	Sturgeon Garden	MN	66579	MNCO5	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
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	65209	TPE RI WA1, LLC	IPP	TPE RI WA1 Solar	RI	66045	70825	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2023	11	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sarbon ES	CA	65676	BESS	47.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	47.0
2023	11	60941	Telex Inc.	Industrial	Austin TX Gas/Factory	TX	65070	801	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2023	11	64281	Thigpen Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	66050	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	11	65123	Tres Bahias Solar Power, LLC	IPP	Tres Bahias	TX	65947	TB	196.3	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	196.3
2023	11	65865	Umbriel Solar, LLC	IPP	Umbriel Solar	TX	66954	23001	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2023	11	65173	United States Solar Corporation	IPP	MN Buffalo Lake 212-1 LLC	MN	66974	MNBL1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	11	65173	United States Solar Corporation	IPP	USS Fair Park Solar LLC	MN	66433	USFPB	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	65173	United States Solar Corporation	IPP	USS Marthe Solar LLC	MN	66477	USMAB	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	3.0
2023	11	19654	University of Washington	Commercial	University of Washington Power Plant	WA	54909	TG3	3.0	Natural Gas Steam Turbine	NG	ST	(TS) Construction complete, but not yet in commercial operation	3.0
2023	11	61980	Valta Energy	IPP	YS BC Pacific Gateway, LLC	CA	66948	VSPRC	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2023	11	63525	Westlands Solar Blue (OZ) Owner, LLC	IPP	Solar Blue	CA	63848	BESS1	226.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	226.0
2023	11	63525	Westlands Solar Blue (OZ) Owner, 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	11	65616	Winona Garden LLC	IPP	Winona Garden	MN	66580	MNCO6	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	11	20556	Wisconsin Power & Light Co	Electric Utility	Chippewa River	WI	65072	PV1	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2023	11	65595	Wolverine Solar, LLC	IPP	Wolverine Solar	MN	66554	22222	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	12	64904	AES Clean Energy	IPP	Estrella Solar & Storage	CA	66772	ESPV	56.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	56.0
2023	12	64904	AES Clean Energy	IPP	Estrella Solar & Storage	CA	66772	ESTRB	28.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	28.0
2023	12	64904	AES Clean Energy	IPP	Mannys Corners Solar 1 LLC	NY	66947	MANNY	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2023	12	64904	AES Clean Energy	IPP	Oak Ridge Solar	LA	66193	OAKRG	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2023	12	64904	AES Clean Energy	IPP	Raceway Solar & Storage	CA	66773	RCWYB	80.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	80.0
2023	12	64904	AES Clean Energy	IPP	Raceway Solar & Storage	CA	66773	RCWYS	125.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	125.0
2023	12	64904	AES Clean Energy	IPP	Westport Stone & Sand Solar	MA	66447	WESTP	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	40577	American Mun Power-Ohio, Inc	Electric Utility	Mifflinburg PA BTM	PA	66452	PB1	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	12	40577	American Mun Power-Ohio, Inc	Electric Utility	Mifflinburg PA BTM	PA	66452	PB2	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	12	64548	Apple Grove Solar, LLC	IPP	Apple Grove Solar, LLC	VA	65224	ENX16	18.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	18.6
2023	12	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARSO1	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2023	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
2023	12	15399	Avangrid Renewables LLC	IPP	Midland Wind	IL	63003	1	105.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	105.5
2023	12	64516	Azimuth 180 Solar, LLC	IPP	Grinnell College	IA	65164	GRN	3.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.9
2023	12	64788	Big Cypress Solar, LLC	IPP	Big Cypress Solar, LLC	AR	65483	BIGCC1	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2023	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
2023	12	65210	Bird Dog Solar, LLC	IPP	Bird Dog Solar	CA	66624	GA-01	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2023	12	65272	Blue Elk III Solar, LLC	IPP	Blue Elk III Solar, LLC	MA	66103	BEIII	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	65364	Blue Harvest Solar Park LLC	IPP	Blue Harvest Solar Park	OH	66249	GEN01	49.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.9
2023	12	61143	Blackand Generating Facility	Industrial	Blackand Generating Facility	CA	56090	D191	0.8	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	0.8
2023	12	61143	Blackand Generating Facility	Industrial	Blackand Generating Facility	CA	56090	D192	0.8	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	0.8
2023	12	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	12	65166	Broad Plains Wind 1, LLC	IPP	Broad Plains Wind 1, LLC	CO	66214	WB3P1	199.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	65512	Catalyzee Bloomington 2551 S Lilac Avenue Microgrid LLC	IPP	CA Bloomington 2551 S Lilac Avenue Micro	CA	66475	18263	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	12	65512	Catalyzee Bloomington 2551 S Lilac Avenue Microgrid LLC	IPP	CA Bloomington 2551 S Lilac Avenue Micro	CA	66475	B8263	1.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	12	65514	Catalyzee Manteca 730 Spreckels Avenue Microgrid LLC	IPP	CA Manteca 730 Spreckels Ave	CA	66509	18259	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2023	12	65513	Catalyzee Mira Loma 3251 De Forest Circle Microgrid LLC	IPP	CA Jurupa Valley 3251 De Forest Circle	CA	66476	18268	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2023	12	65458	Cereal City Solar, LLC	IPP	Cereal City Solar, LLC	MI	66389	CSCPVP	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2023	12	65507	Chesapeake Solar Project, LLC	IPP	Chesapeake Solar Project	VA	66541	CHSPV	116.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	116.0
2023	12	3911	City of Colby - (KS)	Electric Utility	City of Colby	KS								

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	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	12	64872	Distributed Solar Development, LLC	IPP	FFP - NY Werner	NY	66829	P5650	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	64872	Distributed Solar Development, LLC	IPP	Harrah's Atlantic City - POI 2 (Self Par	NJ	66831	P5614	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2023	12	5246	Dominion Energy Inc.	Electric Utility	Norge Solar Farm	VA	64486	NCR03	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	3040	Duke Energy Progress - (NC)	Electric Utility	Woodfin Solar PV1	NC	64682	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65411	Duke Energy Renewables Services	IPP	Pike Solar Hybrid	CO	64212	CO465	17.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	17.0
2023	12	65411	Duke Energy Renewables Services	IPP	Wildflower Solar, LLC (MS)	MS	66369	WDFL	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	12	65054	Easton CSG 1 LLC	IPP	Easton CSG 1 LLC	ME	65798	ESTON	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.3
2023	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	6	227.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	227.8
2023	12	65660	Enchanted Rock	IPP	Enchanted Rock Lod	CA	66638	LODI	48.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	48.0
2023	12	64910	Enersource Energy	IPP	South Fork Wind	NY	65561	SFWND	130.0	Offshore Wind Turbine	WND	WTS	(U) Under construction, less than or equal to 50 percent complete	130.0
2023	12	65226	FGE Goodnight 1 LLC	IPP	Goodnight	TX	55946	GOOD1	265.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	265.5
2023	12	65774	Fence Post Solar Project, LLC	IPP	Fence Post Solar Hybrid Project, LLC	TX	66801	FNCP1	236.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	236.0
2023	12	65502	Five Wells Solar Center, LLC	IPP	Five Wells Solar Center - Hybrid	TX	66420	FWBAT	250.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	262.5
2023	12	65502	Five Wells Solar Center, LLC	IPP	Five Wells Solar Center - Hybrid	TX	66420	FWVOL	320.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	355.4
2023	12	64730	Flint Hills Resources Pine Bend, LLC	Industrial	Flint Hills Resources Pine Bend, LLC	MN	65405	SOLAR	45.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	45.0
2023	12	62856	Frontfront Power, LLC	IPP	CA-DGS RFP-Pleasant Valley State Prison	CA	65526	15112	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	12	62856	Frontfront 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	12	62856	Frontfront Power, LLC	IPP	Grossmont-Cuyamaca-Cuyamaca Col. Solar &	CA	66023	18009	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2023	12	62856	Frontfront Power, LLC	IPP	Grossmont-Cuyamaca-Cuyamaca Col. Solar &	CA	66023	19043	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	12	65720	Fresno Community Solar Developers, LLC	IPP	Fresno Community Solar	CA	66715	FREPV	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2023	12	65099	Gans Solar, LLC	IPP	Gans Solar	PA	65902	5	14.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	14.0
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Hecate Energy Albany 2 LLC	NY	66726	292	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Hecate Energy Albany County 1	NY	84077	ALBNY	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Lemonweir (Oak 1)	WI	66760	713	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Richmond Hill	ME	66741	575	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Webster Creek (Oak 2)	WI	66753	714	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2023	12	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	12	65109	Hales Mills Solar, LLC	IPP	Hales Mills Solar, LLC	NY	65339	09751	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2023	12	64933	Hecate Energy Desert Storage 1 LLC	IPP	Hecate Energy Desert Storage 1 LLC	CA	65635	HECOS1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2023	12	65295	High Banks Wind, LLC	IPP	High Banks Wind, LLC	KS	66156	WT	604.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	643.4
2023	12	63959	Horizon Hill Wind, LLC	IPP	Horizon Hill Wind Project	OK	64339	HHLL	201.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	201.5
2023	12	64738	Hummingbird Energy Storage, LLC	IPP	Hummingbird Energy Storage LLC	CA	65395	HUMB1	75.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	75.0
2023	12	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	12	9191	Idaho Power Co	Electric Utility	Elmore BESS	ID	66327	1	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2023	12	9191	Idaho Power Co	Electric Utility	Filer BESS	ID	66328	1	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	12	9191	Idaho Power Co	Electric Utility	Maiba BESS	ID	66329	1	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	12	9191	Idaho Power Co	Electric Utility	Weiser BESS	ID	66330	1	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	12	65794	Indiana Crossroads Wind Farm II LLC	IPP	Indiana Crossroads Wind Farm II	IN	66861	GEN01	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	201.6
2023	12	49893	Invenery Services LLC	IPP	Heartland Farms	MI	66192	65014	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	49893	Invenery Services LLC	IPP	Tip Top Solar Energy Center LLC	NM	65328	GEN1	220.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	220.0
2023	12	65234	Kapotel Energy Storage 1 LLC	IPP	Kapotel Energy Storage	HI	66067	HES1	183.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	183.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Blackford Wind	IN	66968	BFW00	20.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Chapparal Springs	CA	64664	CHAPB	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	52.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Chapparal Springs	CA	64664	CHAPS	102.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	102.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Chapparal Springs	CA	64664	CHAP1	72.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	72.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Chapparal Springs	CA	64664	WS3BA	36.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	36.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Horizon Solar	TX	65098	HR220	200.0	Solar Photovoltaic	SUN	PTX	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	65277	Leyline Renewable Capital, LLC	IPP	HCE Amelia Solar I, LLC	VA	66115	AML1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65277	Leyline Renewable Capital	IPP	HCE Amelia Solar II, LLC	VA	66116	AML2	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65277	Leyline Renewable Capital	IPP	HCE Millboro Springs Solar, LLC	VA	66117	MBS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65277	Leyline Renewable Capital	IPP	HCE Moran Solar, LLC	VA	66118	MORAN	3.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.2
2023	12	65277	Leyline Renewable Capital	IPP	HCE Powhatan Solar, LLC	VA	66119	POW	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65277	Leyline Renewable Capital	IPP	HCE Reams Solar, LLC	VA	66120	REAMS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65277	Leyline Renewable Capital	IPP	HCE Red Hill Solar, LLC	VA	66121	REDHS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65277	Leyline Renewable Capital	IPP	HCE Roark Mill Solar, LLC	VA	66122	RKML	3.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.2
2023	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 8	PA	65082	PACT8	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	12	65100	Listonburg Solar, LLC	IPP	Listonburg Solar	PA	65629	8	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2023	12	61752	Lone Star Solar	IPP	Lone Star Solar	SC	62235	49	66.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	66.0
2023	12	61752	Lone Star Solar	IPP	Lone Star Solar	SC	62235	50	66.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	66.0
2023	12	65785	Luminae Sunbeam Development Holdings, LLC	IPP	ME Novel Lighthouse - Carrabasset	ME	66862	CARRA	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65785	Luminae Sunbeam Development Holdings, LLC	IPP	ME Novel Lighthouse - Penobscot	ME	66861	PENOB	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	12	64925	MA CS Dighton, LLC	IPP	MA-Dighton-A	MA	65646	MADIG	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2023	12	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN18	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2023	12	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN19	1.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	1.0
2023	12	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN20	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.0
2023	12	13241	MidAmerican Energy Co	Electric Utility	Chickasaw Wind Farm	IA	66668	CKWF	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	202.4
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	65830	Myrtle Storage, LLC	IPP	Myrtle Storage	TX	66913	MYRST	150.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	150.0
2023	12	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	12	65574	NYSolar03 LLC	IPP	NY Genesee 3240 W Lake Rd Solar	NY	66626	19372	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLES1	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLP11	15.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	2324	ROES1	220.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	220.0
2023	12	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	12	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	12	65929	North Bend Wind Project, LLC	IPP	North Bend Wind Project, LLC	SD	67002	NBEND	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2023	12	59254	NuGen Capital Management	IPP	Bristol Landfill Solar	RI	65142	BL1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023														

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	65282	Prairie Switch Wind LLC	IPP	Prairie Switch Wind LLC	TX	66123	PSW1	163.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	163.2
2023	12	56215	RWE Renewables Americas, LLC	IPP	Willowbrook Solar 1, LLC	OH	63877	WBS	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	12	65772	River Ferry Solar 1, LLC	IPP	River Ferry Solar 1	IL	66820	RVF1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	165.3
2023	12	65639	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
2023	12	65733	SAI, Fredonia, LLC	IPP	NV Fredonia 9204 Route 60 Solar	NV	66225	21103	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	5.0
2023	12	65841	SMT Elia LLC	IPP	SMT Elia LLC	TX	66931	SMTL2	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	65840	SMT Los Fresnos LLC	IPP	SMT Los Fresnos LLC	TX	66932	SMTL1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	65845	SMT Rio Grande I LLC	IPP	SMT Rio Grande I LLC	TX	66934	SMTR1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	65846	SMT Rio Grande II LLC	IPP	SMT Rio Grande II LLC	TX	66935	SMTR2	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	65560	SOL ME Augusta 13 York Farm, LLC	IPP	ME Augusta 13 York Farm Rd Solar	ME	66512	16196	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	12	65300	SR DeSoto II, LLC	IPP	SR DeSoto II	CA	66172	SOTO2	65.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.0
2023	12	65786	SR DeSoto III, LLC	IPP	SR DeSoto III	CA	66925	SOTO3	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2023	12	65303	SR McNeal, LLC	IPP	SR McNeal	AZ	66925	MCBA	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	65303	SR McNeal, LLC	IPP	SR McNeal	AZ	66925	MCNEA	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
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	16609	San Diego Gas & Electric Co	Electric Utility	Boulevard Energy Storage	CA	66279	1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	16609	San Diego Gas & Electric Co	Electric Utility	Claremont Energy Storage	CA	66286	1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	16609	San Diego Gas & Electric Co	Electric Utility	Elliott Energy Storage	CA	66278	1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	16609	San Diego Gas & Electric Co	Electric Utility	Metrose BESS	CA	66281	1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	16609	San Diego Gas & Electric Co	Electric Utility	Metrose BESS	CA	66281	2	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	16609	San Diego Gas & Electric Co	Electric Utility	Pala Gomez Creek BESS	CA	66280	1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	16609	San Diego Gas & Electric Co	Electric Utility	Paradise Energy Storage	CA	66265	1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	12	64980	San Jacinto Grid, LLC	IPP	San Jacinto Grid, LLC	CA	66657	HESLG	65.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	65.0
2023	12	65578	Shamrock Wind LLC	IPP	Shamrock Wind	TX	66540	WSHAM	223.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	223.9
2023	12	17058	Shell Wind Energy Inc.	IPP	Madison Fields Solar Project, LLC	OH	66198	USDMF	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2023	12	64994	SolRiver Capital LLC	IPP	Auburn Solar LLC (CSG)	OR	66378	PV1	2.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.9
2023	12	64994	SolRiver Capital LLC	IPP	Elk Solar LLC	NC	66345	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	64994	SolRiver Capital LLC	IPP	Gray Fox Solar LLC	NC	66377	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	64994	SolRiver Capital LLC	IPP	Sheridan Solar LLC (CSG)	OR	66354	PV1	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	12	65650	Soucan Solar Energy, LLC	IPP	Soucan Solar Energy	AZ	66627	SON12	260.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	260.0
2023	12	17600	Southern California Edison Co	Electric Utility	Separator (Elwanda) BESS	CA	65456	SEPAR	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2023	12	63395	Spencer Solar Farm, LLC	IPP	Spencer Solar	MA	63676	SPENC	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2023	12	64801	Storey Energy Center, LLC	IPP	Storey Solar and Storage	AZ	65656	STORY	88.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	88.0
2023	12	63396	Sturbridge Road Solar Farm, LLC	IPP	Sturbridge Road Solar	MA	63677	STURB	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	12	65206	TPE RI WAZ, LLC	IPP	TPE RI WAZ Solar	RI	66044	70824	3.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.4
2023	12	18454	Tampa Electric Co	Electric Utility	Arlita Solar	FL	61653	PV1	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	60.0
2023	12	18454	Tampa Electric Co	Electric Utility	Dover Solar	FL	66129	1	25.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	25.0
2023	12	18454	Tampa Electric Co	Electric Utility	Juniper Solar (FL)	FL	65683	1	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2023	12	18454	Tampa Electric Co	Electric Utility	Lake Mabel Solar	FL	66128	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2023	12	18642	Tennessee Valley Authority	Electric Utility	Vonore Battery Energy Storage System	TN	64255	VBESS	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	64287	Terra-Gen Operating Co-BESS	IPP	Santom BESS 4	CA	65673	BESS	47.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	47.0
2023	12	60941	Terra-Gen Inc.	Industrial	Austin TX GigFactory	TX	65670	1	805.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	12	60941	Terra-Gen Inc.	Industrial	Ytesa Reno GigFactory	NV	64098	1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	12	64931	Texas Solar Nova 1, LLC	IPP	Texas Solar Nova 1	TX	65654	TSN1	252.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	252.0
2023	12	65365	Timber Road Solar Park	IPP	Timber Road Solar Park	OH	66250	GEN01	49.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.9
2023	12	59598	Tooele Army Depot	IPP	Tooele Army Depot(CSG)	UT	59817	PV2	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	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	1.3
2023	12	65112	TotalEnergies Distributed Generation, LLC	Commercial	Shasta College PH2 Solar Project	CA	65940	SCSP2	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.3
2023	12	65173	United States Solar Corporation	IPP	MN Buffalo Lake 212-2, LLC	MN	66975	MNBL2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	12	65173	United States Solar Corporation	IPP	USS Cosmo Solar LLC	MN	66435	USC05	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	12	65173	United States Solar Corporation	IPP	USS Jayhawk Solar LLC	MN	66969	USJAY	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	12	65173	United States Solar Corporation	IPP	USS Maverick Solar LLC	MN	66970	USMAV	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	12	65173	United States Solar Corporation	IPP	USS Riley Solar LLC	MN	66971	USRIL	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	12	65777	Urban Grid Solar	IPP	Crystal Hill Solar	VA	66839	CRYH1	64.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	64.7
2023	12	64800	Verizon Communications	IPP	Verizon Commerce Garage Top Solar Project	CA	65007	VCSSP	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2023	12	64545	Vesper Energy Development LLC	IPP	Nestlewood Solar	OH	65215	NSTLW	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2023	12	65438	Virginia Line Solar, LLC	IPP	Virginia Line Solar, LLC	NC	66358	VAL	35.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	35.0
2023	12	61864	Washington Solar II (SC)	IPP	Washington Solar II (SC)	SC	62344	86	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	12	64547	Waverly Solar, LLC	IPP	Waverly Solar, LLC	VA	65225	ENX17	118.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	118.0
2023	12	63961	White Rock Wind East, LLC	IPP	White Rock East Wind Project	OK	64341	WRE	201.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	201.5
2023	12	63960	White Rock Wind West, LLC	IPP	White Rock West Wind Project	OK	64340	WRW	99.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	99.5
2023	12	20847	Wisconsin Electric Power Co	Electric Utility	Badger Hollow II	WI	64903	GEN2	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	12	20858	Wisconsin Power & Light Co	Electric Utility	Albany Solar (WI)	WI	64907	PV1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2023	12	20858	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	12	20858	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	12	20858	Wisconsin Power & Light Co	Electric Utility	Wautoma Solar	WI	65000	PV1	99.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	99.0
2024	1	61013	AES Distributed Energy	IPP	AES West Oahu Solar Hybrid	HI	64656	UHBE3	12.5	Batteries	MWH	BA	(U) Under construction, more than 50 percent complete	12.5
2024	1	61012	AES Distributed Energy	IPP	AES West Oahu Solar Hybrid	HI	64656	UHWO	12.5	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	12.5
2024	1	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
2024	1	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
2024	1	64450	CG Wharton County LLC	IPP	Sandy Branch Solar	TX	65034	CSBS1	230.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	230.0
2024	1	64542	Caden Energyx Endless Caverns, LLC	IPP	Caden Energyx Endless Caverns, LLC	VA	65219	ENX16	31.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	31.4
2024	1	65561	Catazeta Dallas 7750 Dynasty Drive Microgrid, LLC	IPP	TX Dallas 7750 Dynasty Drive	TX	66516	16900	7.3	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	7.3
2024	1	65308	Cattlemen Solar Park LLC	IPP	Cattlemen Solar Park	TX	66168	GEN01	240.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	240.0
2024	1	64505	Duke Energy Florida, LLC	Electric Utility	Mule Creek Renewable Energy Center	FL	65501	PV1	74.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.9
2024	1	6455	Duke Energy Florida, LLC	Electric Utility	Winapepin Renewable Energy Center	FL	66563	PV1	74.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.9
2024	1	6452	Florida Power & Light Co	Electric Utility	Beautyberry	FL	65874	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Calosahatchee	FL	65871	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Canoe	FL	65868	1	74.5	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)
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Apalooosa Solar I	UT	65678	ASIA	120.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	120.0
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Apalooosa Solar I	UT	65678	ASIB	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Athens Ridge	ME	66832	574	2.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.9
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Hay River (Dunn 1)	WI	66993	717	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Popple Creek (Clark 1)	WI	66995	716	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Walleye (Dunn 2)	WI	66994	720	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2024	1	65076	HEN Infrastructure, L.L.C.	IPP	Dibol BESS	TX	66794	DBOL	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2024	1	65076	HEN Infrastructure, L.L.C.	IPP	Farmersville (TX)	TX	65812	FRMV	9.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.9
2024	1	65076	HEN Infrastructure, L.L.C.	IPP	Garden City East BESS	TX	66791	GRDNE	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2024	1	65076	HEN Infrastructure, L.L.C.	IPP	Mineral Wells East BESS	TX	66798	MNWLVE	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2024	1	65076	HEN Infrastructure, L.L.C.	IPP	West Trest BESS	TX	66780	WFCT	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2024	1	65052	Limestone CSG 1 LLC	IPP	Limestone CSG 1 LLC	ME	65901	LMST1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.8
2024	1	65344	Misenheimer Solar LLC	IPP	Misenheimer Solar LLC	NC	66237	GEN01	74.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.4
2024	1	12796	Monongahela Power Co	Electric Utility	Fort Martin Solar	WV	66898	FTMS	18.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.9
2024	1	14127	Omaha Public Power District	Electric Utility	Turtle Creek	NE	64547	1	221.1	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	264.0
2024	1	14127	Omaha Public Power District	Electric Utility	Turtle Creek	NE	64547	2	221.1	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	264.0
2024	1	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
2024	1	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
2024	1	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	2.0
2024	1	65580	Pioneer Hutt Wind Energy, LLC	IPP	Pioneer Hutt Wind Energy	TX	66531	WPION	140.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	140.0
2024	1	64169	Prairie Solar LLC	IPP	Prairie Solar LLC	IL	64536	KQVAA	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2024	1	65394	Proxima Solar, LLC	IPP	Proxima	CA	66270	PRXBS	162.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	162.0
2024	1	65394	Proxima Solar, LLC	IPP	Proxima	CA	66270	PRXMA	190.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	190.0
2024	1	63355	REA Investments, LLC	IPP	Novel Froehle Solar LLC	MN	64728	FROLE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	1	64371	RPNV Solar 3, LLC	IPP	Slayton Settlement Road Solar	NY	64867	SLTYA	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2024	1	64371	RPNV Solar 3, LLC	IPP	Slayton Settlement Road Solar	NY	64867	SLTYB	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2024	1	17609	Southern California Edison Co	Electric Utility	Cathodic Battery Energy Storage Facility	CA	63226	CAD1	3.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.5
2024	1	17609	Southern California Edison Co	Electric Utility	Cathode (Hinson) BESS	CA	65457	CATH1	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2024	1	17609	Southern California Edison Co	Electric Utility	Cathode (Hinson) BESS	CA	65457	CATH2	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2024	1	17609	Southern California Edison Co	Electric Utility	Yorktown Battery Energy Storage Facility	CA	63226	YORK1	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2024	1	65428	St. Gall Energy Storage I	IPP	St. Gall Energy Storage I	TX	66336	SGES1	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	102.6
2024	1	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
2024	2	61012	AES Distributed Energy	IPP	Platteview Solar LLC	NE	65334	PLTVW	81.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	81.0
2024	2	59613	BayW r a r. 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	65654	Birch Creek Development	IPP	Earp Solar, LLC	IL	66631	PV	35.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.0
2024	2	65211	Blackwater Solar, LLC	IPP	Blackwater Solar	GA	66025	GA-3	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	2	63883	Broad Reach Power	IPP	Hydra	TX	65490	HYDRA	200.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	2	63883	Broad Reach Power	IPP	Pavo	TX	65492	PAVO	175.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	175.0
2024	2	61060	Cypress Creek Renewables	IPP	Zier Solar	TX	66137	11023	40.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	40.4
2024	2	61060	Cypress Creek Renewables	IPP	Zier Solar	TX	66137	41195	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2024	2	65833	Danish Fields Storage, LLC	IPP	Danish Fields Storage	TX	66916	DANST	150.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	150.0
2024	2	65193	Ecox Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	2	62858	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
2024	2	62858	Forefront Power, LLC	IPP	CA-DGS- RFP-Correctional Training Fac	CA	65624	14069	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2024	2	60025	Greenbacker Renewable Energy Corporation	IPP	IGS OXR1	CA	66603	454	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.8
2024	2	65451	Grizzly Ridge Solar LLC	Commercial	Grizzly Ridge Solar	TX	66410	596	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2024	2	65076	HEN Infrastructure, L.L.C.	IPP	Judkins BESS	TX	66790	JUDKS	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2024	2	65076	HEN Infrastructure, L.L.C.	IPP	Lufkin South BESS	TX	66789	LUSBS	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2024	2	65076	HEN Infrastructure, L.L.C.	IPP	Pauline BESS	TX	66784	PAULN	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2024	2	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
2024	2	64978	Hecate Grid Carris Storage 1 LLC	IPP	Carris Storage 1	CA	65733	HECAR	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2024	2	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
2024	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 6	PA	65081	PACT6	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	1	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	2	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	3	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	4	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	5	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	6	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	7	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	8	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	14127	Omaha Public Power District	Electric Utility	Standing Bear Lake	NE	64548	9	16.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.1
2024	2	65099	Porter Solar, LLC	IPP	Porter Solar, LLC (TX)	TX	65937	PORTR	245.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	245.0
2024	2	56215	RWE Renewables Americas, LLC	IPP	Big Star Solar, LLC (Hybrid)	TX	64202	BGSTB	80.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	80.0
2024	2	56215	RWE Renewables Americas, LLC	IPP	Big Star Solar, LLC (Hybrid)	TX	64202	BGSTS	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2024	2	65847	SMT Harlingen II LLC	IPP	SMT Harlingen II LLC	TX	66633	TEST	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	2	27075	San Diego County Water Auth	IPP	Rancho Penitas	CA	56615	C200	4.1	Conventional Hydroelectric	WAT	HP	(U) Under construction, less than or equal to 50 percent complete	4.3
2024	2	64994	SolRiver Capital LLC	IPP	Green Solar LLC (CSG)	OR	66349	PV1	2.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.9
2024	2	64994	SolRiver Capital LLC	IPP	Wallace Solar LLC (CSG)	OR	66355	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2024	2	56826	Texas Medical Center Central	Commercial	TECO CHP-1	TX	57504	GTG2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	2	65756	VESI 23 LLC	IPP	Justin Court Energy Storage	NJ	66758	JC1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	2	64966	Wings Energy Farm, LLC	IPP	Wings Energy Farm	CA	65111	GEN2	150.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	150.0
2024	2	65219	Wolfskin Solar, LLC	IPP	Wolfskin Solar	GA	66627	ARCBA	26.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	26.0
2024	2	64904	AES Clean Energy	IPP	Big Spring Solar	MD	66868	BKSP	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2024	3	64904	AES Clean Energy	IPP	Canonball Solar	MD	66867	CBALL	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2024	3	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
2024	3	65118	AlphaStruore Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GEN2	0.6	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2024	3	65118	AlphaStruore Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GEN3	0.6	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2024	3	64996	Arica Solar, LLC	IPP	Arica Solar, LLC	CA	65744	ARCSA	136.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	136.0
2024	3	65674	Bear Canyon Energy Storage	IPP	Bear Canyon	CA	66504	ARCBA	26.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	26.0
2024	3	65674	Bear Canyon Energy Storage	IPP	Bear Canyon	CA	66550	BC1	13.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	13.0
2024	3	65271	Blue Elk II Solar, LLC	IPP	Blue Elk II Solar, LLC	MI	66105	BEII	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	3	63883	Broad Reach Power	IPP	Dickens	TX	65489	DKNS	200.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	3	63883	Broad Reach Power	IPP	Paleo	TX	65491	PALEO	200.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	3	63883	Broad Reach Power	IPP	Tortolis	TX	65493	TORTO	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	3	65489	CES Electron Farm One, LLC	IPP	CES Electron Farm One, LLC	CA	66892	CAE1	4.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.4
2024	3	65489	Canyon Wind Project, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	311.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	311.0
2024	3	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

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	65565	Catalyze Houston Express Lane Microgrid, LLC	IPP	TX Houston 7080 Express Lane	TX	65517	19344	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2024	3	65510	Catalyze Moss Landing Hilltop Rd Microgrid, LLC	IPP	CA Moss Landing 3040 Hilltop Rd	CA	65510	19616	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2024	3	65516	Catalyze Moss Landing Hilltop Rd Microgrid, LLC	IPP	CA Moss Landing 3040 Hilltop Rd	CA	65510	B9616	1.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.0
2024	3	65397	Condor Energy Storage LLC	IPP	Condor Energy Storage LLC	CA	65285	CNDT1	200.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	3	65760	Consolidated Edison Development Inc.	IPP	Pineville Solar	NY	65779	PSPV	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	3	65318	Crooked Lake Solar, LLC	IPP	Crooked Lake Solar, LLC	AR	66185	GEN1	175.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	175.0
2024	3	65677	Dimension Energy LLC	IPP	Tulare CSG LLC	CA	66679	TULAR	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	3	65677	Dimension Energy LLC	IPP	Visalia CSG LLC	CA	66677	VISAL	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	3	58468	Dominion Renewable Energy	Electric Utility	Quillwort Solar	VA	65318	POW1	18.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	18.0
2024	3	58468	Dominion Renewable Energy	Electric Utility	Sebera Solar	VA	65320	SEBE	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	3	65680	Dubin Street LLC	IPP	Dubin Street LLC	ME	66684	DBL38	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2024	3	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
2024	3	64308	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
2024	3	65774	Fence Post Solar Project, LLC	IPP	Fence Post Solar Hybrid Project, LLC	TX	66801	FNCB	72.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	72.0
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	Foumlite 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	Pecan Tree	FL	65879	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Sambucus	FL	65864	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Sparkleberry	FL	65867	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Three Creeks	FL	65863	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Wild Quail	FL	65910	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Woodward	FL	65875	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	65827	Fork in the Road Solar LLC	IPP	Fork in the Road Solar	NY	66909	FIR	1.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.4
2024	3	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,114.0	Nuclear	NUC	ST	(V) Under construction, more than 50 percent complete	1,114.0
2024	3	63838	Horseshoe Solar, LLC	IPP	Horseshoe Solar, LLC	UT	63984	HSS	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2024	3	65400	Horus West Virginia 1, LLC	IPP	Blake Solar Plant	WV	66276	US620	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	3	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Colonial Solar 4	PA	65979	PACT4	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	3	65032	Limestone CSG 2 LLC	IPP	Limestone CSG 2 LLC	ME	65802	LMS12	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2024	3	61944	MN8 Energy LLC	IPP	WMATA - Cheryler Metro	MD	65959	GEN1	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2024	3	64445	Mazepa CSG 1 LLC	IPP	Mazepa CSG	MN	65017	MZPA	0.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	3	13683	North Carolina El Member Corp	Electric Utility	Collier BESS	NC	65248	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2024	3	13683	North Carolina El Member Corp	Electric Utility	Doos Road BESS	NC	65249	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	3	13683	North Carolina El Member Corp	Electric Utility	Five Points BESS	NC	65250	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	3	13683	North Carolina El Member Corp	Electric Utility	Mayville BESS	NC	65240	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	3	13683	North Carolina El Member Corp	Electric Utility	McKinney BESS	NC	65241	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	3	13683	North Carolina El Member Corp	Electric Utility	New Rosewood BESS	NC	65243	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2024	3	13683	North Carolina El Member Corp	Electric Utility	Queens Creek BESS	NC	65244	BAT1	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2024	3	13683	North Carolina El Member Corp	Electric Utility	Rocky Point BESS	NC	65245	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	3	13683	North Carolina El Member Corp	Electric Utility	Walkers Crossroads BESS	NC	65246	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	3	13683	North Carolina El Member Corp	Electric Utility	Zion Hill BESS	NC	65247	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2024	3	64377	Novel Billie Solar, LLC	IPP	Novel Billie Solar LLC	MN	64965	BLILE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	3	64433	Novel Bo Hu 1 Solar LLC	IPP	Novel Bo Hu 1 Solar LLC	MN	65006	BOHU1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	3	61298	Pine Gate Renewables	IPP	Pleasant Hill PV1	NC	63787	PHILL	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2024	3	65857	Prescott Wind Energy LLC	IPP	Prescott Wind Farm	IA	66652	PWE	56.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	56.0
2024	3	65869	Prologis Logistics Services Incorporated	IPP	CPA 2132 E Dominguez	CA	66657	PE001	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	3	65869	Prologis Logistics Services Incorporated	IPP	CPA 3777 Workman	CA	66653	PE003	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	3	65869	Prologis Logistics Services Incorporated	IPP	CPA Wilmington 1	CA	66659	PE001	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2024	3	65302	Riverstart Solar Park III LLC	IPP	Riverstart Solar Park III	IN	65659	RS003	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2024	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
2024	3	65781	Sky Ranch Solar and Storage	IPP	Sky Ranch Solar and Storage	NM	66814	SKYBA	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	3	65781	Sky Ranch Solar and Storage	IPP	Sky Ranch Solar and Storage	NM	66814	SKYPV	190.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	190.0
2024	3	64994	SolRiver Capital LLC	IPP	Longleaf Pine Solar LLC	NC	66352	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2024	3	64994	SolRiver Capital LLC	IPP	Martle Solar LLC (CSG)	OR	66351	PV1	2.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.9
2024	3	64994	SolRiver Capital LLC	IPP	Williams Solar LLC	NC	66356	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2024	3	65380	Steel Solar, LLC	IPP	Steel Solar LLC	UT	66267	SS8	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	3	65715	Strata Clean Energy	IPP	Chilepin Solar	TX	66704	11106	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	3	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	G01	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2024	3	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	CA3	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2024	3	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	GVSR3	0.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.4
2024	3	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	GVSR3	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2024	3	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	VSRP	0.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.4
2024	3	64995	Victory Pass I, LLC	IPP	Victory Pass	CA	65743	VCTBA	50.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	50.0
2024	3	64995	Victory Pass I, LLC	IPP	Victory Pass	CA	65743	VCTPV	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2024	3	65014	Waco Solar, LLC	IPP	Waco Solar	TX	65762	SWACC	400.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	400.0
2024	3	65675	West Ford Flat Energy Storage	IPP	West Ford Flat	CA	66689	WFFF1	25.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	25.0
2024	3	65667	West Shore Solar LLC	IPP	West Shore Solar LLC	NY	66761	WS	2.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.4
2024	3	20856	Wisconsin Power & Light Co	Electric Utility	Beaver Dam Solar	WI	65001	PV1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	4	64247	20SD 8me LLC	IPP	Rexford Solar Farm	CA	64633	208DB	300.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	4	63830	7V Solar Ranch, LLC	IPP	7V Solar Ranch	TX	64239	7V1	240.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	240.0
2024	4	64900	AES Clean Energy	IPP	Delta Wind Farm (MS)	MS	66000	DLTA	184.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	184.5
2024	4	65746	Academy Energy USA Global, LLC	IPP	ALSO Union Solar, LLC	OH	64660	ALUS	325.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	325.0
2024	4	65076	Altos Solar LLC	IPP	Altos Solar	NY	65821	18806	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2024	4	15399	Avangrid Renewables LLC	IPP	Bakoven Solar	OR	63507	BOS1	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2024	4	66554	Birch Creek Development	IPP	Kimmel Road Solar, LLC	IL	66632	PV	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	4	63233	Brookfield Renewable Trading and Marketing LP	IPP	AM Wind Repower LLC	CA	66167	63235	27.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	27.0
2024	4	65591	Cane Creek Solar, LLC	IPP	Cane Creek	MS	66543	PGRC2	78.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.5
2024	4	65567	Catalyze Pasadena 10585 Red Bluff Road Microgrid, LLC	IPP	TX Pasadena 10585 Red Bluff Road Solar	TX	66519	19503	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2024	4	65568	Cataly											

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	4	63289	Key Capture Energy	IPP	TX10 Hummingbird Storage	TX	65693	TX10	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2024	4	65592	Moonshot Solar, LLC	IPP	Moonshot	MS	66544	PGRMS	78.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.5
2024	4	64507	North Haven Solar One, LLC	IPP	North Haven Solar One	CT	65109	VCV11	1.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.6
2024	4	64743	PPM Solar LLC	IPP	Highpeak Solar 1	TX	66572	HPK51	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-1	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-2	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-3	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-4	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-5	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-6	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-7	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	63082	ProEnergy Services	IPP	Remy Jade Power Station	TX	66604	CTG-8	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2024	4	65775	RPCA Solar 1, LLC	IPP	Avenue 26 Solar	CA	66809	A26P1	2.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.6
2024	4	65775	RPCA Solar 1, LLC	IPP	Avenue 26 Solar	CA	66809	A26P2	6.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	6.0
2024	4	16609	San Diego Gas & Electric Co	Electric Utility	Dark Sky Energy Center	CA	66599	1	7.1	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	7.1
2024	4	16609	San Diego Gas & Electric Co	Electric Utility	Dark Sky Energy Center	CA	66599	2	0.3	Batteries	HZ	FC	(U) Under construction, less than or equal to 50 percent complete	0.3
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	BCRV2	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	63516	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
2024	4	64625	Sunlight Storage II	IPP	Sunlight Storage II	CA	66575	SUN52	230.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	230.0
2024	4	64932	Texas Solar Nova 2, LLC	IPP	Texas Solar Nova 2	TX	66600	TSN2	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	200.0
2024	4	65754	VESI 12 LLC	IPP	Bottomock Energy Storage	CA	66757	BN1	80.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	4	20858	Wisconsin Power & Light Co	Electric Utility	Grant County	WI	65007	PV1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	5	64904	AES Clean Energy	IPP	McFarland B Solar and Storage	AZ	66637	BESS	150.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	150.0
2024	5	64904	AES Clean Energy	IPP	McFarland B Solar and Storage	AZ	66637	MCFRB	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2024	5	61012	AES Distributed Energy	IPP	AES Maui Kulahealani Solar Hybrid	HI	64256	KLNB	60.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	60.0
2024	5	61012	AES Distributed Energy	IPP	AES Maui Kulahealani Solar Hybrid	HI	64256	KLNB	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2024	5	65646	ARTW Storage, LLC	IPP	ARTW Storage, LLC	CA	66619	ARTW	1.2	Batteries	MWH	CA	(L) Regulatory approvals pending. Not under construction	1.2
2024	5	65600	AP Sunray LLC	IPP	AP Sunray LLC	TX	64258	OCISR	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	5	65657	Adams Solar LLC (PA)	IPP	Adams Solar LLC PA	PA	66634	ENX20	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	5	65700	Atrisco Energy Storage LLC	IPP	Atrisco Energy Storage	NM	66604	ATRES	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2024	5	65293	Bartonville Energy Facility, LLC	IPP	Bartonville Energy Facility, LLC	VA	66133	BTS	130.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	130.0
2024	5	65765	Borden County Battery Energy Storage System LLC	IPP	Borden County BESS	TX	66604	1	150.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	150.0
2024	5	65694	Bright Arrow Solar, LLC	IPP	Bright Arrow Solar, LLC	TX	66688	BASS	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	5	65684	Bright Arrow Solar, LLC	IPP	Bright Arrow Solar, LLC	TX	66688	BASS1	103.6	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	103.6
2024	5	65361	CT Cullas II Solar LLC	IPP	Rowland Solar II	TX	66262	SAREN	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	202.8
2024	5	65643	Cald BESS LLC	IPP	Cald BESS	CA	66617	1	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Alamo 3 BESS 2	TX	66293	A3SS2	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Alamo 4 BESS	TX	66294	A4BS1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Alamo 5 BESS 1	TX	66295	A5BS1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Alamo 5 BESS 2	TX	66296	A5BS2	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Alamo 7 BESS 1	TX	66297	A7BS1	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Alamo 7 BESS 2	TX	66298	A7BS2	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Crane 2 BESS 2	TX	66300	CRSS2	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Upton BESS 2	TX	66303	UPBS2	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Uvalde 2 BESS 1	TX	66304	UVBS1	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Uvalde 2 BESS 2	TX	66305	UVBS2	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2024	5	56769	Consolidated Edison Development Inc.	IPP	Uvalde Solar 2	TX	66309	UVV22	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	5	65832	Cottonwood Bayou Solar, LLC	IPP	Cottonwood Bayou Solar	TX	66915	CTW	350.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	350.0
2024	5	65831	Danish Fields Solar, LLC	IPP	Danish Fields Solar, LLC	TX	66914	DAN	600.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	600.0
2024	5	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
2024	5	64872	Distributed Solar Development, LLC	IPP	Cassia's Atlantic City - PO1 (Colosseu)	NJ	66813	P5377	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2024	5	64872	Distributed Solar Development, LLC	IPP	Harris's Atlantic City - PO1 (Meeting)	NJ	66830	P5376	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
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	7140	Georgia Power Co	Electric Utility	Mossy Branch Battery Facility	GA	65018	BESS	65.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	65.0
2024	5	65016	High River Energy Center, LLC	IPP	High River Energy Center, LLC	NV	65765	HR01	90.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	90.0
2024	5	65281	Horus Louisiana 1, LLC	IPP	Elizabeth Solar Plant	LA	66111	US199	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2024	5	49893	Inenergy Services LLC	IPP	Delilah Solar Energy LLC	TX	63194	GEN1	300.0	Solar Photovoltaic	SUN	PV	(1S) Construction complete, but not yet in commercial operation	300.0
2024	5	65627	NRG THW GT LLC	IPP	NRG THW GT Electric Generating Station	TX	66601	G161	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	188.7
2024	5	65627	NRG THW GT LLC	IPP	NRG THW GT Electric Generating Station	TX	66601	G162	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	188.7
2024	5	65798	North Fork Solar Project, LLC	IPP	North Fork Solar Project	OK	66866	NFORK	120.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	120.0
2024	5	63720	Ocean Wind, LLC	IPP	Ocean Wind	NJ	64082	OCW01	1,215.0	Offshore Wind Turbine	WIND	WS	(L) Regulatory approvals pending. Not under construction	1,215.0
2024	5	64743	PPM Solar LLC	IPP	BKV Ponder Solar 1	TX	66571	BKVP1	2.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.5
2024	5	65347	Pearl River Solar Park, LLC	IPP	Pearl River Solar Park, LLC	MS	66239	GEN01	175.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	175.0
2024	5	64610	Powells Creek Farm Solar, LLC	IPP	Powells Creek Solar - Hybrid	VA	65305	BESS	17.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.5
2024	5	63359	REA Investments, LLC	IPP	Novel Brock Solar LLC	MN	65024	BROCK	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	5	63359	REA Investments, LLC	IPP	Novel Swenson Solar LLC	MN	65025	SWNSN	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	5	64607	Salt City Solar LLC	IPP	Salt City Solar Project - Hybrid	OH	65302	BESS	12.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	12.5
2024	5	60531	Standard Solar	IPP	Woodville Solar	RI	64530	1	4.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.5
2024	5	64612	Sunnybrook Farm Solar, LLC	IPP	Sunnybrook Solar Project - Hybrid	VA	65307	SUNB	12.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	12.5
2024	5	65863	Three Corners Solar, LLC	IPP	Three Corners Solar	NE	66565	1	110.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	110.0
2024	5	65173	United States Solar Corporation	IPP	Spring Prairie Solar LLC	MN	66972	SPRPR	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	5	65173	United States Solar Corporation	IPP	USS Cogburn Solar LLC	CO	66436	USCOG	2.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.4
2024	5	65173	United States Solar Corporation	IPP	USS Fruta Solar LLC	CO	66432	USGBS	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2024	5	65640	Vineyard Wind 1 LLC	IPP	Vineyard Wind 1	MA	63093	VW01	800.0	Offshore Wind Turbine	WIND	WS	(L) Regulatory approvals pending. Not under construction	800.0
2024	6	64904	AES Clean Energy	IPP	Baldy Mesa 2, Silver Peak Hybrid	CA	66885	SPKBS	25.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	25.0
2024	6	64904	AES Clean Energy	IPP	Baldy Mesa 2, Silver Peak Hybrid	CA	66885	SPKPV	50.0	Solar Photovoltaic				

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	63883	Broad Reach Power	IPP	Oxtans	TX	65590	OCTNS	125.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	125.0
2024	6	65658	Caden Energy Axton LLC	IPP	Caden Energy Axton LLC	VA	66635	ENX20	66.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	66.0
2024	6	65428	Callisto I Energy Center	IPP	Callisto I Energy Center	TX	66338	CALL1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	101.6
2024	6	64624	Cedar Creek Wind, LLC	IPP	Cedar Creek Wind, LLC	ID	65311	CDCRKR	160.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	160.0
2024	6	1148	City of Baldwin City (KS)	Electric Utility	Baldwin City Plant No 2	KS	8020	10	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.2
2024	6	1148	City of Baldwin City (KS)	Electric Utility	Baldwin City Plant No 2	KS	8020	9	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.2
2024	6	65780	Clearwater Wind III, LLC	IPP	Clearwater Wind III	MT	66811	CW3	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2024	6	64843	Dakota County, MN	Electric Utility	Bylesby	MN	50328	NOR-1	2.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	2.0
2024	6	64843	Dakota County, MN	Electric Utility	Bylesby	MN	50328	SOJ-2	2.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	2.0
2024	6	61619	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
2024	6	65677	Dimension Energy LLC	IPP	Kings College III LLC	CA	66676	KNG3	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.3
2024	6	5248	Dominion Energy Inc.	Electric Utility	Brokers Mill Solar	VA	66314	BMSO	127.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	127.0
2024	6	5248	Dominion Energy Inc.	IPP	Madison Solar	VA	66316	MDSO	62.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	62.5
2024	6	5347	Dow Chemical Co	Industrial	Plaquemine Cogeneration Plant	LA	55419	ST6	48.9	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	48.9
2024	6	61785	EDP Renewables North America LLC	IPP	Scarlet Solar (CA)	CA	64908	GEN01	160.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	160.0
2024	6	61785	EDP Renewables North America LLC	IPP	Scarlet Solar (CA)	CA	64908	GEN02	40.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	40.0
2024	6	64946	EDPR CA Solar Park I LLC	IPP	Sandimi Solar 100	CA	65663	GEN01	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2024	6	64946	EDPR CA Solar Park I LLC	IPP	Sandimi Solar 200	CA	65663	GEN01	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2024	6	65850	EDPR Scarlet II LLC	IPP	Scarlet II Hybrid	CA	66951	GEN03	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	6	65850	EDPR Scarlet II LLC	IPP	Scarlet II Hybrid	CA	66951	GEN04	150.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	150.0
2024	6	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	6	65369	Eleven Mile Solar Center, LLC	IPP	Eleven Mile Solar Center	AZ	66263	1111	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	6	65641	EnLink Processing Services, LLC	Industrial	Enlace LA Plant	LA	66615	ST001	4.6	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	4.7
2024	6	64458	Enfield Solar One, LLC	IPP	Enfield Solar One	CT	65047	VCP07	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2024	6	65218	Glover Creek Solar, LLC	IPP	Glover Creek Solar, LLC	KY	66047	GLOVE	55.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	55.0
2024	6	65805	GuifStar Power, LLC	IPP	GuifStar Power, LLC	TX	66871	BESS	300.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	300.0
2024	6	65805	GuifStar Power, LLC	IPP	GuifStar Power, LLC	TX	66871	SOLAR	451.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	451.6
2024	6	66650	Harvest Gold Solar Power, LLC	IPP	Harvest Gold Solar	MS	66623	HGS	99.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	99.0
2024	6	65289	Key Capture Energy	IPP	TX15 Limousin Oak Storage	TX	65668	TX15	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2024	6	50122	Leeward Asset Management, LLC	IPP	AVEP BESS	CA	66591	AVEP9	126.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	126.0
2024	6	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Honeyuckle Solar Farm	IN	65936	INHS1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2024	6	65131	Mammoth North, LLC	IPP	Mammoth North Solar	IN	65957	GEN1	400.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	400.0
2024	6	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
2024	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
2024	6	65555	Nova Power, LLC	IPP	Manatee Power Bank	CA	66494	NOVA1	230.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	230.0
2024	6	65555	Nova Power, LLC	IPP	Manatee Power Bank	CA	66494	NOVA2	230.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	230.0
2024	6	65778	OE, CAB1	IPP	OE CAB1	CA	66808	OCAB	99.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	99.7
2024	6	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
2024	6	65648	Prairie Mist Solar Project, LLC	IPP	Prairie Mist Solar	AR	66625	78661	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	109.2
2024	6	64953	Putnam Meadow Solar Station, LLC	IPP	Putnam Meadow Solar Station	CT	65710	PTNM	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2024	6	65826	Roadrunner Crossing Wind Farm, LLC	IPP	Roadrunner Wind Farm	TX	66902	S317	256.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	256.0
2024	6	63778	SRI Landfill, LLC	IPP	SRI Landfill	CT	64181	LITGR	18.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	18.0
2024	6	6534	Sacramento Municipal Util Dist	Electric Utility	Solano Wind	CA	7526	A	85.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	85.5
2024	6	65418	Sierra Estrella Energy Storage, LLC	IPP	Sierra Estrella Energy Storage	AZ	66334	BESS3	250.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	250.0
2024	6	64994	SolRiver Capital LLC	IPP	Canyonville Solar LLC (CSG)	OR	66340	PV1	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2024	6	64994	SolRiver Capital LLC	IPP	Rhubarb One SC	NC	59696	PV1	3.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	9.6
2024	6	17609	Southern California Edison Co	Electric Utility	Anode (Springville) BESS	CA	65458	ANOD1	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2024	6	17609	Southern California Edison Co	Electric Utility	Anode (Springville) BESS	CA	65458	ANOD2	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2024	6	64778	Strata Manager, LLC	IPP	Island Empire Energy Storage	CA	66726	IEESS	70.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	70.0
2024	6	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
2024	6	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
2024	6	60970	SunShare Management	IPP	Quarry Sun CSG	MN	66073	QURSY	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2024	6	65419	Superstion Energy Storage, LLC	IPP	Superstion Energy Storage	AZ	66333	BESS4	90.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	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	65552	Terra-Gen Operating Co-BESS 2	IPP	Beaumont BESS	CA	66461	GEN1	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	116.6
2024	6	61950	Terra-Gen Operating Co-Solar	IPP	Lockhart ESS, LLC	CA	66946	LHSS	45.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	45.0
2024	6	65685	Turnlewed Energy Storage, LLC	IPP	Turnlewed Energy Storage	CA	66666	TWES1	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	6	64457	VCP, LLC db/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
2024	6	64457	VCP, LLC db/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
2024	7	65553	West Tambo Clean Power II	IPP	West Tambo Clean Power II	CA	66506	WEST2	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	7	65684	549 Doles Ridge Rd Solar LLC	IPP	549 Doles Ridge Rd Solar LLC	ME	66665	549DR	4.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2024	7	57416	Acciona Energy USA Global, LLC	IPP	Red Tailed Hawk Solar, LLC	TX	66157	GEN1	350.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	350.0
2024	7	66554	Birch Creek Development	IPP	Richland Township Solar, LLC	IL	66630	PV	35.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.0
2024	7	5347	Dow Chemical Co	Industrial	Plaquemine Cogeneration Plant	LA	55419	ST7	48.9	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	48.9
2024	7	65594	EnerSmart Storage	IPP	EnerSmart Mesa Heights Sub Station	CA	66552	MM162	3.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	3.0
2024	7	65620	Fox Garden LLC	IPP	Fox Garden	MN	66576	MXC07	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	7	65381	Gravel Pit Solar, LLC	IPP	Gravel Pit Solar, LLC	TX	66298	GPS03	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2024	7	65829	Hill Solar 1, LLC	IPP	Hill Solar 1, LLC	TX	66912	HS1	405.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	405.0
2024	7	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Veederburg Solar Park	IN	66938	VEED	1.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.4
2024	7	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Winamac Solar Park	IN	66939	WINA	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2024	7	13407	Nevada Power Co	Electric Utility	Silverhawk	NV	55841	CT3	222.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	210.1
2024	7	13407	Nevada Power Co	Electric Utility	Silverhawk	NV	55841	CT4	222.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	210.1
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	65626	San Juan Solar 1, LLC	IPP	San Juan Solar 1	NM	66574	SJSS	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2024	7	62936	TREX US Red Holly	IPP	TREX US Red Holly	TX	63202	701-S	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	7	65685	Turnlewed Energy Storage, LLC	IPP	Turnlewed Energy Storage	CA	66666	TWES2	75.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	75.0
2024	7	65173	United States Solar Corporation	IPP	MN East Regal LLC	MN	66973	MNERL	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	7	65777	Urban Grid Solar	IPP	Foxglove Solar	VA	66841	FOXG1	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2024														

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	8	6455	Duke Energy Florida, LLC	Electric Utility	Falmouth Renewable Energy Center	FL	66639	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2024	8	65444	Erie Solar, LLC	IPP	Erie Solar, LLC	PA	66365	ERIE	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Prairie Ronde Solar Farm	LA	65976	LAPR1	136.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	136.0
2024	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Second Division Solar	TX	65981	TXSD1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2024	8	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauer	MT	2185	HAU10	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2024	8	65550	Nova Power, LLC	IPP	Menifee Power Bank	CA	66494	NOVA3	5.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	5.0
2024	8	65550	Nova Power, LLC	IPP	Menifee Power Bank	CA	66494	NOVA4	110.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	110.0
2024	8	65398	Peregrine Energy Storage, LLC	IPP	Peregrine Energy Storage LLC	CA	66286	PERE1	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	8	65618	Pickrel Garden LLC	IPP	Pickrel Garden	MN	66578	MNCO3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	8	65777	Urban Grid Solar	IPP	Alton Post Office Solar	VA	66637	ALPT1	82.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.1
2024	8	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
2024	8	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
2024	8	64968	Vikings Energy Farm, LLC	IPP	Vikings Energy Farm	CA	65711	GEN1	136.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	136.8
2024	9	66554	Birch Creek Development	IPP	Envoy Solar, LLC	MO	66629	PV	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2024	9	63883	Broad Reach Power	IPP	Noosa Energy Storage LLC	CA	64531	KOVAA	99.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	99.0
2024	9	65594	EnerSmart Storage	IPP	EnerSmart El Cajon BESS	CA	66754	EC01	3.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	3.0
2024	9	65693	Granulated Solar, LLC	IPP	Granulated Solar, LLC	TN	66687	GRA1	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2024	9	65381	Gravel Pit Solar, LLC	IPP	Gravel Pit Solar, LLC	CT	66298	GPSA	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	9	65808	La Casa Wind, LLC	IPP	La Casa Wind	TX	66919	S309	152.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	152.0
2024	9	50123	Leeward Asset Management, LLC	IPP	Morrow Lake Solar	TX	66775	MLPV	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Starr Solar Ranch	TX	65975	TXST1	136.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	136.0
2024	9	65776	RPCA Solar 7, LLC	IPP	East Cleveland Road Solar	CA	66610	ECLC	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2024	9	19454	Tampa Electric Co	Electric Utility	Dover Solar	FL	65129	BESS1	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2024	9	65552	Terra-Gen Operating Co-BESS 2	IPP	Piscata ESS	CA	66462	GEN1	80.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	9	65552	Terra-Gen Operating Co-BESS 2	IPP	Sagebrush Solar 2 ESS 40	CA	66949		1.40	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	48.0
2024	9	65552	Terra-Gen Operating Co-BESS 2	IPP	Sagebrush Solar 2 ESS 59	CA	66950		5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	59.0
2024	9	64457	VCP, LLC d/b/a Verogy	IPP	FedEx Middletown	CT	65046	VCP16	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2024	10	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
2024	10	65520	326FV 8me LLC	IPP	Ardis Solar (Hybrid)	NV	65841	BESS	185.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	185.0
2024	10	61012	AES Distributed Energy	IPP	AES Waimea Phase 2 Solar	WA	66066	WABA	30.0	Batteries	MWH	BA	(U) Under construction, more than 50 percent complete	21.1
2024	10	61012	AES Distributed Energy	IPP	AES Waimea Phase 2 Solar	HI	66066	WAPV	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2024	10	65819	Ables Springs Solar, LLC	IPP	Ables Springs Solar & Storage	TX	66905	BESS	100.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	100.0
2024	10	61514	Agilitas Energy, LLC	IPP	Manorville II	NY	64758	MAN	0.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	0.6
2024	10	61514	Agilitas Energy, LLC	IPP	Manorville II	NY	64758	MANB	0.8	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	0.8
2024	10	61514	Agilitas Energy, LLC	IPP	Patchogue ESS	NY	64761	PAT	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2024	10	15399	Avangrid Renewables LLC	IPP	Daybreak Solar	OR	64974	CR	14.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.0
2024	10	64744	Boswell Wind, LLC	IPP	Boswell Wind	WY	65403	BOSWV	329.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	329.8
2024	10	65651	Double Back Diamond Solar Power, LLC	IPP	Double Back Diamond	IL	66624	DBD	592.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	592.8
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	66892	S0NR1	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	10	65799	Enel Green Power Estonian Solar Project, LLC	IPP	Estonian Solar Project, LLC	TX	66872	BESS	100.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	100.0
2024	10	65799	Enel Green Power Estonian Solar Project, LLC	IPP	Estonian Solar Project, LLC	TX	66872	SOLAR	204.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	204.5
2024	10	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKSOL	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2024	10	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
2024	10	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
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	9234	Indiana Municipal Power Agency	Electric Utility	MPA Richmond 8 Solar Park	IN	66748	RI8CH	6.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.3
2024	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 7	PA	66360		2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2024	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 9	PA	66130	PACT9	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Mountain Holly Solar	PA	66556	PAMH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	White Trillium Solar	OH	65604	CHWT1	49.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	49.5
2024	10	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
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	Paasahu Solar LLC	IPP	Paasahu Solar Hybrid	HI	62534	PHBA	15.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	15.0
2024	10	60348	Ragsdale Solar, LLC	IPP	Ragsdale Solar LLC	MS	66240	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	10	64351	Robury Solar, LLC	IPP	Robury Solar, LLC	ME	64834	ROX	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
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	MDBS	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	MDPV	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 Family Solar Park	SC	66012	BROGD	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2024	10	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	10	62941	Teela Inc	Industrial	Austin TX Glass Factory	TX	65070	AQA	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2024	10	65777	Urban Grid Solar	IPP	Jones Farm Solar	MD	66842	JONF1	64.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	64.0
2024	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
2024	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
2024	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
2024	11	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	61169	150.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	150.0
2024	11	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	11	65741	AB Newark (Firm IV) Operating, LLC	IPP	AB Newark Solar	NJ	66746	PV1	5.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.6
2024	11	65819	Ables Springs Solar, LLC	IPP	Ables Springs Solar & Storage	TX	66905	SOLAR	151.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	151.0
2024	11	15399	Avangrid Renewables LLC	IPP	Mohawk Solar	NY	64253	S1	90.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	90.5
2024	11	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	11	65852	Ben Milam Solar 2 LLC	IPP	Orion II Solar Project	TX	66941	ORND	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2024	11	65742	Blue Bird Solar, LLC (FL)	IPP	Blue Bird Solar, LLC	MD	66747	BBS	130.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	130.0
2024	11	10623	City of Lakeland - (FL)	Electric Utility	City of Lakeland	FL	676	ICA	20.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2024	11	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKBA	30.0	Batteries	SUN	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2024	11	64841	Hecate Energy Puiaiki LLC	IPP	Hecate Energy Puiaiki 1	VA	65665	HEPU1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2024	11	9234	Indiana Municipal Power Agency	Electric Utility	MPA Tipton 2 Solar Park	IN	66937	TIPT2	2.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.7
2024	11	50125	Leeward Asset Management, LLC	IPP	Ridgely Energy Farm	TN	65845	RDFPV	254.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	254.0
2024	11	50123	Leeward Asset Management, LLC	IPP	Sandhill Solar 2	GA	65884	SAHSO	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Granite Hill Solar	PA	66440	PAGH1	70.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	70.0
2024	11	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	11	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	11	65626	San Juan Solar I, LLC	IPP	San Juan Solar I	NM	66574	SANS	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	11	65571	Solitude Solar Dix Duwall Rd Microgrid, LLC	IPP	NY Beaver Dams Dix 1239 Duwall Rd Solar	NY	66523	20149	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2024	11	65590	Springwater Solar, LLC	IPP	Springwater Solar, LLC	OH	65900	SPRW	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2024	11	65777	Urban Grid Solar	IPP	Aspen Road Solar	PA	66838	ASPR1	106.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.1
2024	11	63726	Vistra Zero LLC	IPP	Forest Grove - Dodd	TX	64131	FGPV1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.6
2024	11	63726	Vistra Zero LLC	IPP	Oak Hill - Dry Creek	TX	64132	PV1	390.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	390.9
2024	11	63492	West River Solar, LLC	IPP	West River Solar, LLC	NC	63806	WR28	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2024	11	20847	Wisconsin Electric Power Co	Electric Utility	Darien Solar	WI	64534	1	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2024	11	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
2024	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
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	Turkey Creek Solar Project	CO	64744	TC001	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	64241	92JTB 8me, LLC	IPP	Ridford Solar Farm	CA	64633	20539	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	12	64244	92JTB 8me, LLC	IPP	Big Rock Solar Farm	CA	64636	92JTB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	64246	99MTB 8me, LLC	IPP	Sienna Solar Farm	CA	64632	99MTB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	63004	Abundant Solar Power Inc.	IPP	Wheaton-STEU	NY	63228	11410	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2024	12	59474	BQ Energy LLC	IPP	Nottingham Solar	OH	66658	NOTT	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	12	59474	BQ Energy LLC	IPP	Stuebenville Solar	OH	66657	STUEB	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	12	63702	Barbers Point Solar, LLC	IPP	Barbers Point Solar, LLC	HI	64094	BRPA	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	BRP01	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2024	12	64842	Baron Winds II	IPP	Baron Winds II	NY	65513	BRNW2	113.2	Onshore Wind Turbine	WIND	WT	(L) Regulatory approvals pending. Not under construction	113.2
2024	12	63793	Bear Branch Solar LLC	IPP	Bear Branch Solar	NC	64168	GEN	35.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	35.0
2024	12	63883	Broad Reach Power	IPP	Antlia	TX	65588	ANTLA	70.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	70.0
2024	12	63883	Broad Reach Power	IPP	Avila	TX	65860	AVILA	160.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	160.0
2024	12	63883	Broad Reach Power	IPP	Cachi	TX	65861	CACH1	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	63883	Broad Reach Power	IPP	Carina	TX	65589	CARNA	150.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	150.0
2024	12	63883	Broad Reach Power	IPP	Castor	TX	65870	CASTR	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	63883	Broad Reach Power	IPP	Desna	TX	65876	DESNA	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	63883	Broad Reach Power	IPP	Zeya	TX	65880	ZEYA	250.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	250.0
2024	12	64522	CAA CT Airport 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
2024	12	61819	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2024	12	61819	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2024	12	64467	CG Pike Creek LLC	IPP	Pike Creek Wind	IL	65049	PCW1	202.5	Onshore Wind Turbine	WIND	WT	(P) Planned for installation, but regulatory approvals not initiated	202.5
2024	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
2024	12	58391	Chillico Wind Farm LLC	IPP	Chillico Wind Farm	OK	58406	1	169.2	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	169.2
2024	12	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2024	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59559	HPWT	200.0	Onshore Wind Turbine	WIND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	64380	Connecticut Chautauque County LLC	IPP	South Ripley Solar	NY	64911	64911	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2024	12	64380	Connecticut Chautauque County LLC	IPP	South Ripley Solar	NY	64911	CSRS1	270.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	270.0
2024	12	56769	Consolidated Edison Development Inc.	IPP	Arlington Valley Solar Energy I	AZ	56769	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	127.0
2024	12	56769	Consolidated Edison Development Inc.	IPP	Switchgrass Solar, LLC	VA	66124	SPV1	70.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	70.0
2024	12	64369	Coyote Gulch Solar LLC	IPP	Coyote Gulch Solar	CO	64857	CO513	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2024	12	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	12	64523	DePford Solar One, LLC	IPP	DePford Solar One	NJ	65147	VCP01	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	64368	Dolores Canyon Solar LLC	IPP	Dolores Canyon Solar	CO	64858	CO497	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2024	12	5248	Dominion Energy Inc.	Electric Utility	Dulles Solar and Storage	VA	65043	DUST	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	S0NR2	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2024	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
2024	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
2024	12	64680	Emergy Meadow Solar Station, LLC	IPP	Emergy Meadow Solar Station	ME	65306	EMSS	16.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.4
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M01	3.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Imperial Beach BESS	CA	66551	IB193	3.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M01	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M02	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M03	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M04	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M05	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M06	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Murray BESS	CA	66755	M07	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	65206	Eureka North Solar LLC	IPP	Eureka North Solar	NY	66042	63232	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2024	12	65209	Eureka South Solar LLC	IPP	Eureka South Solar	NY	66041	63231	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2024	12	64171	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	64178	FPS Potoc Solar LLC	IPP	Potoc Solar	NY	64541	1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2024	12	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
2024	12	63524	Freeport 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	65576	Grand Island Sunrise LLC	IPP	NY Grand Island 871 Whitehaven Rd Solar	NY	66527	21011	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2024	12	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	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT1	2.4	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT3	2.4	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than	

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	65681	Henrietta BESS LLC	IPP	Electrolyte BESS	CA	66661	HEN	99.4	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	99.4
2024	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
2024	12	63792	Hornet Solar LLC	IPP	Hornet Solar	NC	64167	GEN	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2024	12	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HRB	32.0	Other Waste Biomass	OBS	ST	(V) Under construction, more than 50 percent complete	36.0
2024	12	63791	Hunters Cove Solar, LLC	IPP	Hunters Cove Solar	NC	64166	GEN	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2024	12	62743	Indianapolis Power & Light Co	Electric Utility	Pike County Energy Storage	IN	66881	BAT2	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	49893	Invenery Services LLC	IPP	Changing Winds	TX	52943	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	288.0
2024	12	49893	Invenery Services LLC	IPP	Hardin Solar Energy II LLC	OH	63828	GEN1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2024	12	49893	Invenery Services LLC	IPP	Maple Flats	IL	66191	65015	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2024	12	49893	Invenery Services LLC	IPP	Yum Yum Solar LLC	TN	63026	GEN1	147.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	147.0
2024	12	63703	Kahana Solar, LLC	IPP	Kahana Solar, LLC	NY	64095	KSSA	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	63289	Key Capture Energy	IPP	NY2 Battery	NY	63684	NY2	169.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	169.0
2024	12	66565	Kiowa County Solar Project, LLC	IPP	Kiowa County Solar Project, LLC	OK	66642	USKWA	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Cradle Solar	TX	65822	CRASO	225.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	225.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Honey Creek Solar	IN	65821	HNYBA	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Honey Creek Solar	IN	65821	HNYSR	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Parowan Solar	UT	65823	PARB	58.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	58.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Parowan Solar	UT	65823	PARSO	58.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	58.0
2024	12	50123	Leeward Asset Management, LLC	IPP	Ridgely Energy Farm	TN	65445	REBSS	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	12	50123	Leeward Asset Management, LLC	IPP	White Wing Solar	AZ	60572	GEN01	175.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	175.0
2024	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Snowdrop Solar	PA	66139	PASD1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	5	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	6	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	65676	Malaga BESS LLC	IPP	Acid BESS	CA	66559	MAL	97.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	97.0
2024	12	65676	Malaga BESS LLC	IPP	Acid BESS	CA	66559	USMTC	111.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	111.0
2024	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
2024	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
2024	12	63968	Mockingbird Solar Center, LLC	IPP	Mockingbird Solar Center	TX	64347	7777	471.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	471.0
2024	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
2024	12	63232	OE ALC	IPP	AL Solar C LLC	AL	63513	OEALC	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2024	12	65816	OE ESCL	IPP	OE ESCL	NM	66888	OEESCL	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	65081	Oriana Solar LLC	IPP	Oriana Solar LLC	TX	65849	ORBS	61.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	61.0
2024	12	65081	Oriana Solar LLC	IPP	Oriana Solar LLC	TX	65849	ORPVC	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2024	12	61301	Plum Creek Wind Farm LLC	IPP	Plum Creek	MN	61687	PLMCK	400.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	400.0
2024	12	65302	Ponderosa Wind II, LLC	IPP	Ponderosa Wind II	OK	60156	GP01	358.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	358.0
2024	12	65399	Pure Hedge LLC	IPP	Pure Hedge LLC	CT	60736	FSS13	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	12	63989	Pure Hedge LLC	IPP	Pure Hedge LLC	CT	60736	FSS14	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	12	60228	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2024	12	65093	RPCA Storage 1, LLC	IPP	Industrial Parkway Storage	CA	65897	INPKY	9.8	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.8
2024	12	65101	Redbud Run Solar, LLC	IPP	Redbud Run Solar	VA	65930	10	30.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	30.0
2024	12	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
2024	12	65304	SR Alley, LLC	IPP	SR Alley	GA	66173	ALLEY	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2024	12	65743	Sarasville, LLC	IPP	Sarasville	NY	66816	RUSV1	173.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	173.0
2024	12	65072	Sacramento Valley Energy Center, LLC	IPP	Sacramento Valley Energy Center, LLC	CA	65808	BSVEC	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2024	12	65072	Sacramento Valley Energy Center, LLC	IPP	Sacramento Valley Energy Center, LLC	CA	65808	SVEC	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	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
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	65079	Solar Proponent LLC	IPP	Flag City Solar	TX	65844	FCSPV	167.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	167.3
2024	12	65079	Solar Proponent LLC	IPP	Lumis Creek Solar and BESS SLF	TX	65852	LUNBS	621.4	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	621.4
2024	12	65079	Solar Proponent LLC	IPP	Lumis Creek Solar and BESS SLF	TX	65852	LUNPV	617.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	617.1
2024	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
2024	12	64783	Spanish Peaks Solar LLC	IPP	Spanish Peaks Solar	CO	62379	47301	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2024	12	65366	Speedway Solar, LLC	IPP	Speedway Solar, LLC	IN	66264	SDS	198.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	198.0
2024	12	62700	SunEast Clay Solar LLC	IPP	SunEast Clay Solar Project	NY	62819	Q669	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2024	12	62699	SunEast Dog Corners Solar LLC	IPP	SunEast Dog Corners Solar Project	NY	62823	Q584	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2024	12	63539	SunEast Fairway Solar LLC	IPP	SunEast Fairway Solar Project	NY	63805	Q848	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63551	SunEast Flat Hill Solar LLC	IPP	SunEast Flat Hill Solar Project	NY	63901	Q865	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63537	SunEast Grassy Knoll Solar LLC	IPP	SunEast Grassy Knoll Solar Project	NY	63863	Q885	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63540	SunEast Highview Solar LLC	IPP	SunEast Highview Solar Project	NY	63866	Q891	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	62757	SunEast Hills Solar LLC	IPP	SunEast Hills Solar Project	NY	62895	Q581	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2024	12	63541	SunEast Hilltop Solar LLC	IPP	SunEast Hilltop Solar Project	NY	63888	Q8807	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63538	SunEast Limestone Solar LLC	IPP	SunEast Limestone Solar Project	NY	63864	Q892	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63678	SunEast Manchester Solar LLC	IPP	SunEast Manchester Solar Project	NY	64037	Q8913	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	62698	SunEast Skyline Solar LLC	IPP	SunEast Skyline Solar Project	NY	62816	Q670	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63541	SunEast Tabletop Solar LLC	IPP	SunEast Tabletop Solar Project	NY	63867	Q869	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	12	63536	SunEast Valley Solar LLC	IPP	SunEast Valley Solar Project	NY	63862	Q8828	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	62758	SunEast Watkins Road Solar LLC	IPP	SunEast Watkins Road Solar Project	NY	62896	Q586	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	65880	Tampa Energy Project, LLC	IPP	Tampa Energy Project, LLC	TX	65891	TALPV	131.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	131.0
2024	12	18454	Tampa Electric Co	Electric Utility	English Creek Solar	FL	66921	1	23.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	23.0
2024	12	18454	Tampa Electric Co	Electric Utility	Lake Mabel Storage	FL	66941	BESS1	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2024	12	18454	Tampa Electric Co	Electric Utility	MacDill Power Station	FL	66920	MPS01	18.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	18.8
2024	12	18454	Tampa Electric Co	Electric Utility	MacDill Power Station	FL	66920	MPS02	18.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	18.8
2024	12	66427	Tidwell Prairie	IPP	Tidwell Prairie Storage 1	TX	66337	SOES1	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	63759	Triple Oak Power LLC	IPP	Jawbone Wind Project	MT	68175	JWPF	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	12	64982												

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	63528	Westlands Grape, LLC	IPP	Grape	CA	63851	GRAPE	246.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	246.4	
2024	12	65601	Wheatridge East Wind LLC	IPP	Wheatridge East Wind	OR	66560	WREW	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0	
2024	12	66703	Winfield Solar I, LLC	IPP	Winfield Solar	MO	66696	WNPS	162.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	162.8	
2024	12	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	
2024	12	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	
2024	12	65165	WV Energy Partners	IPP	Boulder Flats Solar	WV	65977	BF1PV	131.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	113.0	
2025	1	63825	45MG 8me LLC	IPP	Aratina Solar Center 2	CA	64215	45MGA	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0	
2025	1	57416	Acciona Energy USA Global, LLC	IPP	AEUG Madison Solar, LLC	KY	64659	AMS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0	
2025	1	15399	Avangrid Renewables LLC	IPP	Great Bear Solar, LLC	OH	64073	GBS	46.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	46.0	
2025	1	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54509	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5	
2025	1	65442	Cobalt Solar, LLC	IPP	Cobalt Solar, LLC	PA	66364	COBA1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0	
2025	1	61978	Convergent Energy and Power LP	IPP	Bensonhurst Energy Storage 1 LLC	NY	66407	BBA1A	5.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	5.0	
2025	1	64810	Eversource Energy	IPP	Revolution Wind	RI	65600	REWVD	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		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		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		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		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		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		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		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		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		74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5	
2025	1	12796	Monongahela Power Co	Electric Utility	Marlowe Solar, LLC	WV	66999	MARS	5.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.8	
2025	1	12796	Monongahela Power Co	Electric Utility	Riversville Solar	WV	66900	RVS	5.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.5	
2025	1	12796	Monongahela Power Co	Electric Utility	Wylie Ridge Solar	WV	66901	WRS	8.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.4	
2025	1	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60610	NPLPS	5.0	Natural Gas Fired Combined Cycle	NG	GT	(OT) Other	25.5	
2025	1	64263	Notch Peak Solar LLC	IPP	Notch Peak Solar LLC	UT	64669	KQVAA	324.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	324.0	
2025	1	63426	RE Bravepool LLC	IPP	RE Bravepool LLC	TX	63730	BVPS1	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0	
2025	1	65091	Rosebud Solar, LLC	IPP	Rosebud Solar, LLC	TX	65899	ROSEB	132.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	132.0	
2025	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55007		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	55007		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	55007		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	55007		156.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0	
2025	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Champion Solar I	IN	66865	INCS1	51.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	51.9	
2025	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Merrillville Solar, LLC	IN	66114	INRD1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0	
2025	2	65389	Nighthawk Energy Storage, LLC	IPP	Nighthawk Energy Storage, LLC	CA	65889	BESS1	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0	
2025	2	18454	Tampa Electric Co	Electric Utility	Wimsuama Storage	FL	66624	BESS1	4.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0	
2025	2	65396	Viracocha Wind LLC	IPP	Sand Hill B	CA	63662	SNDBC	17.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	17.0	
2025	2	65396	Viracocha Wind LLC	IPP	Sand Hill C	CA	63653	SNDBC	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0	
2025	3	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	
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	65636	Cross Town Energy Storage LLC	IPP	Cross Town Energy Storage	ME	66036	CRDS1	175.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	175.0	
2025	3	6452	Florida Power & Light Co	Electric Utility	Big Water	FL	65912		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		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		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		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		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	North Creek	FL	65908		74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5	
2025	3	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	
2025	3	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	
2025	3	65789	Marion County Solar Project, LLC	IPP	Marion County Solar Project	OH	66860	USMNC	100.0	Solar Photovoltaic	SUN	PH	(T) Regulatory approvals received. Not under construction	100.0	
2025	3	58489	OCI Solar Power	IPP	Bexar ESS	TX	66400	CCBEX	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0	
2025	3	65456	Ostrea Solar, LLC	IPP	Ostrea Solar, LLC	WA	66384	GEN1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0	
2025	3	65612	Pergumans Solar LLC	IPP	Pergumans Solar LLC	NC	63955	PERDQ	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
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	17633	Southern Indiana Gas & Elec Co	Electric Utility	CrossTrack Solar	IN	66781		130.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	130.0	
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	3	65104	Vermillion Rise Solar, LLC	IPP	Vermillion Rise Solar	IN	65935	BAT	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0	
2025	3	65396	Viracocha Wind LLC	IPP	Rooney Ranch	CA	63698	RDONR	21.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	21.0	
2025	3	65396	Viracocha Wind LLC	IPP	Sand Hill A	CA	63126	SNDA	13.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	13.5	
2025	4	65673	Blackwell Test Facility, LLC	IPP	Blackwell Test Facility, LLC	CA	66648	BLKWL	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0	
2025	4	64518	Deer Wood Energy, LLC	IPP	Deer Wood Energy, LLC	VA	65144	EXN11	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	EXN12	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0	
2025	4	65676	Long Lake Solar, LLC	IPP	Long Lake Solar, LLC	AR	66649	LLS	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0	
2025	4	18454	Tampa Electric Co	Electric Utility	MacDill Storage	FL	66689	BESS1	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0	
2025	5	62910	30KMS 8me LLC	IPP	Southern Biphon Solar Hybrid	NV	63113	SBS	30.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	30.0	
2025	5	65410	ACTX BESS Project LLC	IPP	Ash Creek BESS	TX	66991	BESS	306.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	306.0	
2025	5	65687	Accalia Point Solar, LLC	IPP	Accalia Point Solar, LLC	TX	66673	66666	190.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	190.5	
2025	5	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	05	210.0	Natural Gas Fired Combined Cycle	NG	GT	(L) Regulatory approvals pending. Not under construction	235.0	
2025	5	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	31	17.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8	
2025	5	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	32	17.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8	
2025	5	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	33	17.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8	
2025	5	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	34	17.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8	
2025	5	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	35	17.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8	
2025	5	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	36	17.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8	
2025	5	64435	Beaver Creek Wind II, LLC	IPP	Beaver Creek II	MT	65020	BCW2	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0	
2025	5	64435	Beaver Creek Wind II, LLC	IPP	Beaver Creek II	MT	65020	BCW2B	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0	
2025	5	64435	Beaver Creek Wind II, LLC	IPP	Beaver Creek II	MT	65021	BCW3	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0	
2025	5	64435	Beaver Creek Wind II, LLC	IPP	Beaver Creek II	MT	65021	BCW3B	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete		

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	65454	Healing Springs Solar, LLC	IPP	Healing Springs Solar, LLC	NC	66382	GEN1	55.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	55.0
2025	5	49893	Invenery 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
2025	5	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Mountain Daisy	CO	66557	COMD1	161.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	161.7
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G1	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G2	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G3	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G4	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G5	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G6	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G7	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G8	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	11269	Lower Colorado River Authority	Electric Utility	Maxwell Peaker Plant	TX	66335	G9	18.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.8
2025	5	65445	MRG Goody Solar Project, LLC	IPP	MRG Goody Solar Project Hybrid	TX	66390	GDVES	50.4	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.4
2025	5	65445	MRG Goody Solar Project, LLC	IPP	MRG Goody Solar Project Hybrid	TX	66390	GDYPV	171.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	171.7
2025	5	65751	RE Papago LLC	IPP	Papago Energy Storage	AZ	66779	PPABA	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2025	5	65114	Rocking R Solar, LLC	IPP	Rocking R Solar, LLC	LA	65941	RRS	72.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	72.5
2025	5	65079	Solar Proponent LLC	IPP	Rowdy Creek Solar and BESS	TX	65854	RDVBS	350.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	350.0
2025	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
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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	248.3
2025	5	17633	Southern Indiana Gas & Elec Co	Electric Utility	Possey Solar	IN	66780	1	191.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	191.0
2025	6	64243	91MC 8me, LLC	IPP	Kingsley Solar Farm	CA	64634	90FB	360.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	360.0
2025	6	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
2025	6	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
2025	6	65759	Ash Creek	IPP	Ash Creek Solar	TX	66774	78663	408.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	408.9
2025	6	15399	Avangrid Renewables LLC	IPP	Powell Creek Solar	OH	65997	PCS1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	6	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
2025	6	64219	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
2025	6	64720	Black Walnut Energy Storage LLC	IPP	Black Walnut Energy Storage LLC	CA	65396	BW1	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2025	6	4254	Consumers Energy Co	Electric Utility	Muskegon Solar	MI	65572	MSP	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2025	6	58970	Ecoplexus, Inc	IPP	Grifton PV2	NC	63688	GRFT2	56.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.0
2025	6	65084	Eldora Energy LLC	IPP	Eldora Energy LLC	TX	65847	ELDBS	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	6	65084	Eldora Energy LLC	IPP	Eldora Energy LLC	TX	65847	ELDPV	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	6	65762	Elevate Middletown, LLC	IPP	Elevate Middletown	CT	66796	ELMVT	275.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	275.0
2025	6	65080	Elio Energy LLC	IPP	Elio Energy LLC	TX	65850	ELIBS	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
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	58768	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	58768	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2025	6	58768	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	65324	Freepoint Commodities LLC	IPP	Raceway Solar	DE	63846	RACE	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2025	6	65761	GB Arthur Kill Storage LLC	IPP	Elevate Arthur Kill	NY	66795	ELVAK	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2025	6	63474	Hecla Energy Gedney Hill LLC	IPP	Hecla Energy Gedney Hill	NY	63815	GEDNY	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	6	64970	Heclaite Grid Humidor Storage 1 LLC	IPP	Humidor Storage I	CA	65703	HEHUM	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	300.0
2025	6	50123	Leeward Asset Management, LLC	IPP	Union Ridge Solar	OH	65338	UNIS1	108.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	108.0
2025	6	63576	MEC North	IPP	MEC North	MI	63911	MNC	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	MCS	500.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	500.0
2025	6	64688	Mulligan Solar	IPP	Mulligan Solar, LLC	TX	65349	MUL	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2025	6	58489	OCI Solar Power	IPP	OCI Stillhouse Solar	TX	65894	OCSIS	210.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	210.0
2025	6	58489	OCI Solar Power	IPP	OCI SunRoper	TX	65893	OCSIS	260.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	260.0
2025	6	58489	OCI Solar Power	IPP	OCI SunRoper	TX	65893	OCSIS	260.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	260.0
2025	6	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
2025	6	64355	Solariant Capital, LLC	IPP	Wildcat Solar Power Plant LLC	NM	64849	WLDCT	90.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	90.0
2025	6	65815	Sunrayer Assets 1 LLC	IPP	Alcatraz Solar, LLC	TX	66894	ALBSA	50.4	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.4
2025	6	65815	Sunrayer Assets 1 LLC	IPP	Alcatraz Solar, LLC	TX	66894	ALBPV	101.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	101.0
2025	6	63826	Two Rivers Wind LLC	IPP	Two Rivers Wind Facility	WY	63972	TR1	6.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	6.1
2025	6	65777	Urban Grid Solar	IPP	Beaver Creek Solar	PA	66850	BEAC1	34.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	34.2
2025	6	65777	Urban Grid Solar	IPP	Morgue Solar	MD	66843	MORG1	55.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	55.8
2025	6	65329	Yaupon Solar, LLC	IPP	Yaupon Solar Project (Hybrid)	TX	66216	BESS	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	6	65329	Yaupon Solar, LLC	IPP	Yaupon Solar Project (Hybrid)	TX	66216	SOL	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	7	61013	AES Distributed Energy	IPP	Olen Canyon Solar A, LLC	UT	66484	GCA	95.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	95.0
2025	7	13157	City of Omaha	Commercial	Papilion Creek Wastewater	NE	55027	1600C	2.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	2.5
2025	7	13157	City of Omaha	Commercial	Papilion Creek Wastewater	NE	55027	1600D	2.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	2.5
2025	7	17530	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT5	40.3	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	65.4
2025	7	17530	Dominion Energy South Carolina, Inc	Electric Utility	Parr GT	SC	3291	GT6	40.3	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. 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	11295	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	11295	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	58489	OCI Solar Power	IPP	OCI Lone Sun	TX	65999	OCLIS	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	7	65079	Solar Proponent LLC	IPP	Tehuacana Creek 1 Solar and BESS	TX	65855	TE1BS	418.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	418.0
2025	7	65079	Solar Proponent LLC	IPP	Tehuacana Creek 1 Solar and BESS	TX	65855	TE1PV	836.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	836.8
2025	8	65476	GranSolar Texas East, LLC	IPP	Tokio Solar	TX	66397	TOKIO	158.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	175.0
2025	8	65882	Hecla Energy Harley Hand Solar LLC	IPP	Hecla Energy Harley Hand Solar LLC	TX	64234	HEHSH	25.0	Onshore Wind Turbine	SUN	WT	(P) Planned for installation, but regulatory approvals not initiated	514.0
2025	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Big Elk Solar	NE	66113	NEBE	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2025	8	65815	Sunrayer Assets 1 LLC	IPP	Midpoint Solar, LLC	TX	66897	MDBSA	52.2	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	52.2
2025	8	65815	Sunrayer Assets 1 LLC	IPP	Midpoint Solar, LLC	TX	66897	MDPV	104.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	104.0
2025	8	62650	Victorville Energy Center, LLC (CA)	Industrial	Victorville Energy Center, LLC (CA)	CA	62726	1	20.1	All Other	WH	ST	(P) Planned for installation, but regulatory approvals not initiated	20.1
2025	9	60799	33UI 8me LLC	IPP	Gale 1 Solar	UT	61170	33UB	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2025	9	64172	Arevon Asset Management	IPP	Elliot Solar LLC	IN	64804	1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2025	9	63961	Heater Wind, LLC	IPP	Heater Energy LLC	TX	64224	HEAT	25.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	25.0
2025	9	64434	Beaver Creek Wind I, LLC	IPP	Beaver Creek I	MT	65019	BCW1	50.0	Onshore Wind Turbine</				

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	9	58783	Marselles Land and Water Company	IPP	Marselles 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
2025	9	58783	Marselles Land and Water Company	IPP	Marselles 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
2025	9	58783	Marselles Land and Water Company	IPP	Marselles 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
2025	9	58783	Marselles Land and Water Company	IPP	Marselles 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
2025	9	64674	Noria Hondo Solar LLC	IPP	Noria Hondo Solar (Hybrid)	TX	65344		14.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	14.0
2025	9	64674	Noria Hondo Solar LLC	IPP	Noria Hondo Solar (Hybrid)	TX	65344	66146	75.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	75.0
2025	9	65695	Seven Flags BESS LLC	IPP	Seven Flags BESS LLC	TX	66689	7FLAG	100.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	100.0
2025	9	63140	Three Rivers Solar Power, LLC	IPP	Three Rivers Solar Power, LLC	ME	63386	3RRVS	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2025	9	5504	Vistra Corp	IPP	Newton Solar BESS LLC	IL	65401	BA	2.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.0
2025	9	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
2025	10	64904	AES Clean Energy	IPP	Baldy Mesa Solar & Storage	CA	66598	BDMS5	75.0	Batteries	MWH	BA	(U) Under construction, more than 50 percent complete	75.0
2025	10	64904	AES Clean Energy	IPP	Baldy Mesa Solar & Storage	CA	66598	BLDMS	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	150.0
2025	10	56769	Consolidated Edison Development Inc.	IPP	Burt County Wind	NE	61511	B-CNE	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2025	10	61785	EDP Renewables North America LLC	IPP	Saddle Mountain East Wind Farm	WA	62263	GEN1	126.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	126.0
2025	10	65475	Gransolar Texas Fifteen, LLC	IPP	Naduah Solar	TX	66396	NDUAH	180.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	181.6
2025	10	65103	Highbanks Solar, LLC	IPP	Highbanks Solar	NY	65934	7	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	10	65105	Peeler Solar, LLC	Industrial	Copperdon Solar Plant No. 1	UT	64427	CSP2	11.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2025	10	65124	Plum Nettle Wind Farm LLC	IPP	Peeler Solar, LLC	TX	65932	PEEL2	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	10	64347	Silver Queen Wind Farm, LLC	IPP	Plum Nettle 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	65562	TJA Off South Main St. Lanesboro, LLC	IPP	Silver Queen Wind Farm	IA	64835	NA	258.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	258.0
2025	10	65562	TJA Off South Main St. Lanesboro, LLC	IPP	MA Lanesboro S. Main St.	MA	66514	18233	4.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.2
2025	10	58113	Texas A&M Utilities & Energy Services	IPP	MA Lanesboro S. Main St.	MA	66514	B8233	2.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.5
2025	10	65777	Urban Grid Solar	Commercial	Central Utility Plant - Texas A&M	TX	58151	ST038	5.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	5.0
2025	10	63726	Vistra Zero LLC	IPP	Spring Grove Solar 2	VA	65844	SPRG2	194.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2025	10	64951	Warren Meadow Solar Station, LLC	IPP	Forest Grove - Dodd	TX	64131	ESS1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.2
2025	11	65691	Branch Solar, LLC	IPP	Warren Meadow Solar Station	ME	65708	WMSS	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2025	11	64368	ConnecGen Montgomery County LLC	IPP	Branch Solar Project	MI	66697	BS1	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2025	11	65116	Discovery Wind, LLC	IPP	Mill Point Solar	NY	64912	CMP51	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2025	11	63960	Emerick 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	11	61797	Hecate Energy LLC	IPP	Emerick Wind	NE	64344	OS99	398.3	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	398.3
2025	11	62842	Lightsource Renewable Energy Asset Management, 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
2025	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Jones City 1 Solar	TX	66559	TXJC1	215.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	215.0
2025	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Trinity River Solar 1	TX	66132	TXTR1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	11	59589	Lumiant Generation Company LLC	IPP	Trinity River Solar 1	TX	66132	TXTR2	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2025	11	58486	Samsung C&T Renewables, LLC	IPP	Jayhawk	TX	59806	SOLAR	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2025	11	58846	SouthEast Renewable Fuels, LLC	Industrial	Conex Solar, LLC	GA	66671	CONEX	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	11	64690	Topsham Meadow Solar Station LLC	IPP	SRF Pulp Processing Facility	FL	58907	G1001	20.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	20.0
2025	11	64691	West Baldwin 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
2025	12	61222	174 Power Global Corp.	IPP	West Baldwin Solar Station	ME	65371	WBSS	17.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.1
2025	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
2025	12	63520	3SRW 8me LLC	IPP	Boulder Solar III LLC	NV	65141	BS3ES	58.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	58.0
2025	12	63805	50LW 8me LLC	IPP	Arvin Solar (Hybrid)	NV	63541	ARVD	370.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	370.0
2025	12	63805	50LW 8me LLC	IPP	Bellfield Solar and Energy Storage Farm	CA	64210	50LWA	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	64245	90FI 8me, LLC	IPP	Bellfield Solar and Energy Storage Farm	CA	64210	50LWB	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	64815	Antares Group Inc	IPP	Kingsley Solar Farm	CA	64634	90FB	360.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	360.0
2025	12	64815	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
2025	12	64815	Antares Group Inc	IPP	Shenavale Solar	VA	65312	SV	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2025	12	65390	Invenergy Renewables LLC	IPP	Shenavale Solar	VA	65312	OR	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	12	65824	BT Hickerson Solar, LLC	IPP	BT Hickerson Solar, LLC	TX	66903	5105	310.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	310.0
2025	12	64858	Balanced Rock Power, LLC	IPP	Windhub Solar B, LLC	CA	65969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2025	12	65697	Briggs Solar, LLC	IPP	Briggs Solar, LLC	TX	66691	BRIGG	305.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	305.0
2025	12	65697	Briggs Solar, LLC	IPP	Briggs Solar, LLC	TX	66691	BRUGG	70.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	70.0
2025	12	64476	CG Leon County II LLC	IPP	Pecan Prairie North Solar	TX	64999	CPNS1	360.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	360.0
2025	12	64476	CG Leon County II LLC	IPP	Pecan Prairie South Solar	TX	64981	CPSS1	135.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	135.0
2025	12	64570	Caden Energy Piney River LLC	IPP	Caden Energy Piney River LLC	VA	65296	EK186	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2025	12	64934	Chiquito Grid, LLC	IPP	Chiquito Grid, LLC	CA	65655	HECHO	80.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	80.0
2025	12	64186	Chuckwalla Solar, LLC	IPP	Chuckwalla Solar, LLC	NV	64568	CHW	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	12	64186	Chuckwalla Solar, LLC	IPP	Chuckwalla Solar, LLC	NV	64568	CHW1	180.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	180.0
2025	12	64357	ConnecGen 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
2025	12	65543	Desert Vine Solar LLC	IPP	Desert Vine Solar	TX	66493	DVS	121.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	121.3
2025	12	65510	ECG Utah Solar 1, LLC	IPP	Utah Solar 1	UT	66426	IEUS	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2025	12	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
2025	12	58970	Ecoplexus, Inc	IPP	Westminster NC	NC	63567	WSMTR	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2025	12	65672	Elkhart County Solar Project, LLC	IPP	Elkhart County Solar Project	IN	66647	USELT	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2025	12	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CC	(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	65598	GEG PA Solar 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	58880	Gallejos Wind Farm, Phase 1	IPP	Goonies Solar Project	PA	65547	GOONS	106.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	194.0
2025	12	65740	Genesee Solar Energy, LLC	IPP	Gallejos Wind Farm, Phase 1	NM	59047	GEN 1	190.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	190.0
2025	12	65113	Grey Fox Wind	IPP	Genesee Solar Project	MI	66756	GS1	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	51.0
2025	12	65741	Hart Solar Partners, LLC	IPP	Grey Fox Wind	IL	65939	WINDG	400.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	400.0
2025	12	65378	Hecate Energy Cedar Solar LLC	IPP	Hart Solar Project	MI	66778	H51	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	104.0
2025	12	65485	Hecate Energy Ramsey Storage, LLC	IPP	Hecate Energy Cedar Solar LLC	NV	64163	HEC	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2025	12	65485	Hecate Energy Ramsey Storage, LLC	IPP	Hecate Energy Ramsey Storage	TX	65414	RMSY	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2025	12	65485	Hecate Grid East Valley Storage, LLC	IPP	Hecate Grid East Valley Storage	TX	65411	RMSY	255.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	255.0
2025	12	62765	High Bridge Wind, LLC	IPP	High Bridge Wind Project	NY	62894	HBSFS	7.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	7.0
2025	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
2025	12	65701	Horseshoe Branch Solar	IPP	Horseshoe Branch Solar	VA	66695	HRSFP	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2025	12	65682	IP Aramis, LLC	IPP	Aramis 1 Solar Project	CA	66678	IPAR1	100.0	Solar Photovoltaic	SUN</			

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2025	12	50123	Leeward Asset Management, LLC	IPP	Blackford Solar	IN	66660	BLKSL	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2025	12	50123	Leeward Asset Management, LLC	IPP	Northern Prairie 1	WI	66658	NGPR1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2025	12	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
2025	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Mayapple Solar 1	IN	66138	MMYA1	224.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	224.0
2025	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Dycamore Trail Solar	PA	PAST1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0	
2025	12	65587	Mammoth Central LLC	IPP	Mammoth Central Solar Project	IN	66546	MMTCH	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2025	12	65587	Mammoth Central LLC	IPP	Mammoth Central Solar Project	IN	66546	MTHC2	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2025	12	65588	Mammoth South LLC	IPP	Mammoth South Solar Project	IN	66545	MMTCS	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
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	300.0
2025	12	63219	Obedian Solar Center LLC	IPP	Obedian Solar Center	OR	63488	OBSLR	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2025	12	63493	Palomino Solar, LLC	IPP	Palomino Solar	OH	63784	FLMNO	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	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
2025	12	65144	Samsung Solar Energy 2, LLC	IPP	Eagle Springs Hybrid	TX	66341	ECSB	61.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	55.1
2025	12	65144	Samsung Solar Energy 2, LLC	IPP	Eagle Springs Hybrid	TX	66341	EGBS	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	116.8
2025	12	65144	Samsung Solar Energy 2, LLC	IPP	Gaia Hybrid	TX	66342	GAAB	76.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	76.8
2025	12	65144	Samsung Solar Energy 2, LLC	IPP	Gaia Hybrid	TX	66342	GAAB	152.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	152.7
2025	12	63543	Sculpin Solar LLC	IPP	Sculpin Solar	IN	66238	SP6	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2025	12	63054	Shepherd's Run Solar	IPP	Shepherd's Run Solar	NY	64188	PR	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2025	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCBAT	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCSOL	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2025	12	64994	SolRiver Capital LLC	IPP	Washington Solar	NC	60648	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2025	12	65079	Solar Proponent LLC	IPP	Clear Fork Creek Solar and BESS SLF	TX	65642	CFCBS	600.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	600.0
2025	12	65079	Solar Proponent LLC	IPP	Clear Fork Creek Solar and BESS SLF	TX	65642	CFOPV	600.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	600.0
2025	12	65079	Solar Proponent LLC	IPP	Hollow Branch Creek 1 Solar	TX	65646	HBPV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2025	12	65561	TJA 540R Main St. Acusnet, LLC	IPP	MA Acusnet 540R Main St	MA	66513	18229	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2025	12	65561	TJA 540R Main St. Acusnet, LLC	IPP	MA Acusnet 540R Main St	MA	66513	B8229	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2025	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	12	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	12	65777	Urban Grid Solar	IPP	Canview Solar (AR)	AR	66851	FAR1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2025	12	64354	Wilkes Solar, LLC	IPP	Wilkes Solar, LLC	NC	64850	WS	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2026	1	65384	Cartier Energy, LLC	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN6	5.4	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	5.8
2026	1	65835	Clean Energy Future - Trumbull, LLC	IPP	Trumbull Energy Center	OH	66918	GT11	350.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	350.0
2026	1	65835	Clean Energy Future - Trumbull, LLC	IPP	Trumbull Energy Center	OH	66918	GT12	350.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	350.0
2026	1	65835	Clean Energy Future - Trumbull, LLC	IPP	Trumbull Energy Center	OH	66918	STG	250.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	250.0
2026	1	65699	Coast Solar, LLC	IPP	Coast Solar, LLC	TX	66693	COA1	285.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	285.0
2026	1	65699	Coast Solar, LLC	IPP	Coast Solar, LLC	TX	66693	COAT1	140.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	140.0
2026	1	5248	Domion Energy Inc.	Electric Utility	Dufles Solar and Storage	VA	65043	DUSO	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2026	1	11241	Entergy Louisiana LLC	Electric Utility	Sterlington Solar	LA	66681	STS	49.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	49.0
2026	1	6452	Florida Power & Light Co	Electric Utility	Boardwalk	FL	65688	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	Mara 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	65983	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	Tennille 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	65482	GranSolar Texas Thirteen, LLC	IPP	Despain Solar	TX	66421	GRS13	236.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	236.2
2026	1	65893	Inventory Services LLC	IPP	Wind Corralles Wind Farm	NV	65947	GEN	280.7	Onshore Wind Turbine	WND	WT	(U) Under construction, more than 50 percent complete	280.7
2026	1	60340	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHD1	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2026	1	60340	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHD2	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2026	1	60340	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHD3	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2026	1	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	City 2 Solar	TX	66693	TJCX2	185.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	185.0
2026	1	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Mowata Solar	LA	66558	LAMO1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2026	1	12796	Monongahela Power Co	Electric Utility	Davis Solar (WV)	WV	66670	DAVS	11.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	11.5
2026	2	65644	Fish Lake Geothermal LLC	IPP	Fish Lake Geothermal	NV	66618	FL1	4.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2026	2	65644	Fish Lake Geothermal LLC	IPP	Fish Lake Geothermal	NV	66618	FL2	4.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2026	2	65644	Fish Lake Geothermal LLC	IPP	Fish Lake Geothermal	NV	66618	FL3	4.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2026	2	65644	Fish Lake Geothermal LLC	IPP	Fish Lake Geothermal	NV	66618	FL4	4.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2026	2	65092	Springwater Solar, LLC	IPP	Springwater Solar, LLC	OH	65900	SPR2	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2026	3	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generation Station	ND	57881	04	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	235.0
2026	3	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Crossvine Solar	IN	66441	INCNV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2026	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
2026	3	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
2026	3	65715	Strata Clean Energy	IPP	Longwing Solar	TX	66705	11105	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2026	3	65715	Strata Clean Energy	IPP	Peri Peri Solar	TX	66708	11104	115.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	115.0
2026	4	5248	Domion Energy Inc.	Electric Utility	Moon Corner Solar	VA	66313	MCCO	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0
2026	4	7490	Grand River Dam Authority	Electric Utility	Greer	OK	66105	4	44.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	45.0
2026	4	64776	Wolf Pit Branch Solar, LLC	IPP	Wolf Pit Branch Solar, LLC	SC	65437	PGR38	15.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	15.5
2026	4	64776	Wolf Pit Branch Solar, LLC	IPP	Wolf Pit Branch Solar, LLC	SC	65437	PGR38	62.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	62.0
2026	5	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
2026	5	65889	Alfred Oaks Solar, LLC	IPP	Alfred Oaks Solar, LLC	NY	66675	ALOA	115.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	115.2
2026	5	65889	Alfred Oaks Solar, LLC	IPP	Alfred Oaks Solar, LLC	NY	66675	BA	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2026	5	65976	Consolidated Edison Development Inc.	IPP	Utside Solar 1	TX	66296	UNP11	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2026	6	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
2026	6	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
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	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2026	6	64356	Bedington Energy Facility, LLC	IPP	Bedington Energy Facility, LLC	WV	64448	BEF1	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
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	63090												

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	6	61729	Culpepper Solar	IPP	Culpepper Solar	SC	62221	33	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2026	6	58970	Ecoplexus, Inc	IPP	OAKBORO PV1	NC	61362	OAKPV	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2026	6	55937	Energy Texas Inc.	Electric Utility	Orange County Advanced Power Station	TX	66621	1A	396.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	453.0
2026	6	55937	Energy Texas Inc.	Electric Utility	Orange County Advanced Power Station	TX	66621	1B	396.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	453.0
2026	6	55937	Energy Texas Inc.	Electric Utility	Orange County Advanced Power Station	TX	66621	1C	365.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	400.0
2026	6	61733	Foreman Solar	IPP	Foreman Solar	SC	62215	38	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	65481	Hecate Grid Gwent Storage 1, LLC	IPP	Hecate Grid Gwent Storage 1	CA	66409	GWNT	135.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	135.0
2026	6	63838	Hecate Grid Swiftsure LLC	IPP	Swiftsure	NY	64235	SWFTS	650.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	650.0
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	64741	Homestead Energy Storage LLC	IPP	Homestead Energy Storage	CA	65308	HMSD1	14.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	14.0
2026	6	61751	Juniper Solar	IPP	Juniper Solar	SC	62234	48	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2026	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
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	61780	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	Metsam Solar	IPP	Metsam Solar	SC	62280	58	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2026	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HJU12	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2026	6	56545	Pattern Operators LP	IPP	SunZia Wind North	NM	66024	SZW-N	1,089.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	1,089.0
2026	6	56545	Pattern Operators LP	IPP	SunZia Wind South	NM	66023	SZW-S	2,426.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	2,426.4
2026	6	65764	Pier 5 Energy Storage LLC	IPP	Elevate Pier 5	CA	66787	ELVPS	70.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	70.0
2026	6	61803	Prager Solar II	IPP	Prager 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	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2026	6	61809	Ross Solar	IPP	Ross Solar	SC	62296	68	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2026	6	63488	Shady Hills Energy Center, LLC	IPP	Shady Hills Combined Cycle Facility	FL	63802	G001	546.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	573.0
2026	6	61830	Shining Sun Solar	IPP	Shining Sun Solar	SC	62309	73	74.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.0
2026	6	61831	Shorthorn Solar	IPP	Shorthorn Solar	SC	62310	74	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2026	6	61832	Southern Solar	IPP	Southern Solar	SC	62312	76	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
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	65815	Sunraycor Assets I LLC	IPP	Lupinus Solar 1, LLC	TX	66895	LP1BA	83.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	83.0
2026	6	65815	Sunraycor Assets I LLC	IPP	Lupinus Solar 1, LLC	TX	66895	LP1PV	165.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	165.0
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	7	5248	Dominion Energy Inc.	Electric Utility	Courthouse Solar	VA	66312	CHSL	167.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	167.0
2026	7	12863	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	FUTR1	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2026	7	12863	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	FUTR2	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2026	7	12863	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	FUTR3	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2026	7	12863	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	FUTR4	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2026	7	58489	OCI Solar Power	IPP	OCI Hillsboro	TX	66401	OHLSB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2026	7	58489	OCI Solar Power	IPP	OCI Hillsboro	TX	66401	OHLPV	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2026	7	65444	Samsung Solar Energy 2, LLC	IPP	Uiva Solar, LLC	HI	65964	URS04	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2026	8	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
2026	8	64077	JVR Energy Park LLC	IPP	JVR Energy Park LLC	CA	64428	JVR1B	70.0	Batteries	MWH	BA	Not under construction	70.0
2026	9	5248	Dominion Energy Inc.	Electric Utility	Clover Creek Solar	VA	66315	CCSO	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2026	9	65837	Freestone Solar LLC	IPP	Timber Cove Solar	TX	66622	59957	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2026	9	65470	Lock Hydro Friends Fund XLII, LLC	IPP	Bradcock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2026	9	65456	Wapiti Energy Development LLC	IPP	Wapiti Solar	OH	58425	OH	170.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	170.0
2026	10	65511	Aragon Energy Storage LLC	IPP	Aragon Energy Storage	GA	66431	ARAG1	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2026	10	65440	Bear Point Solar, LLC	IPP	Bear Point Solar, LLC	NC	66362	GEN1	73.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	73.9
2026	10	65728	Breneman Solar LLC	IPP	Breneman Solar Project	GA	66744	BRNMN	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	168.0
2026	10	65698	Holly Branch Solar, LLC	IPP	Holly Branch Solar, LLC	TX	66692	HOLLY	230.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	230.0
2026	10	65698	Holly Branch Solar, LLC	IPP	Holly Branch Solar, LLC	TX	66692	HOLLY	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2026	10	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57822	GEN1	205.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	205.2
2026	10	65103	Peeler Solar, LLC	IPP	Peeler Solar, LLC	TX	65922	PEELR	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2026	10	65110	Winding Stair Wind	IPP	Winding Stair Wind	IA	65938	WINDG	212.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	212.0
2026	11	63806	26SB 8me LLC	IPP	Balfield 2 Solar & Energy Storage Farm	CA	64209	26SBA	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2026	11	63806	26SB 8me LLC	IPP	Balfield 2 Solar & Energy Storage Farm	CA	64209	26SBB	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2026	11	65456	Hyco Solar, LLC	IPP	Hyco Solar LLC	NC	66383	GEN1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2026	11	65493	Navajo Transitional Energy Company	Electric Utility	NTEC Gas Plant	NM	66478	GEN1	38.5	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	44.1
2026	11	65493	Navajo Transitional Energy Company	Electric Utility	NTEC Gas Plant	NM	66478	GEN2	38.5	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	44.1
2026	11	65457	Panther Branch Solar, LLC	IPP	Panther Branch Solar, LLC	NC	66385	GEN1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2026	12	64246	99MT 8me, LLC	IPP	Sienna Solar Farm	CA	64632	99MT8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2026	12	65661	Arco Wind, LLC	IPP	Arco Wind and Solar Project	ID	66651	37565	360.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	360.0
2026	12	65441	Black Walnut Solar, LLC	IPP	Black Walnut Solar, LLC	NC	66363	GEN1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2026	12	65708	Buffalo Branch Wind and Solar LLC	IPP	Buffalo Branch Wind and Solar LLC	MO	66701	BBW1	247.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	247.0
2026	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
2026	12	65113	Grey Fox Wind	IPP	Grey Fox Wind	IL	65939	WINDG2	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2026	12	63839	Hecate Grid Clermont 1 LLC	IPP	Clermont	NY	64236	CLRMT	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2026	12	58804	Lake Erie Energy Development Corp	IPP	Icbeaker Offshore Wind Farm	OH	58941	WTG1	3.4	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	3.4
2026	12	58804	Lake Erie Energy Development Corp	IPP	Icbeaker Offshore Wind Farm	OH	58941	WTG2	3.4	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	3.4
2026	12	58804	Lake Erie Energy Development Corp	IPP	Icbeaker Offshore Wind Farm	OH	58941	WTG3	3.4	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	3.4
2026	12	58804	Lake Erie Energy Development Corp	IPP	Icbeaker Offshore Wind Farm	OH	58941	WTG4	3.4	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	3.4
2026	12	58804	Lake Erie Energy Development Corp	IPP	Icbeaker Offshore Wind Farm	OH	58941	WTG5	3.4	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	3.4
2026	12	58804	Lake Erie Energy Development Corp	IPP	Icbeaker Offshore Wind Farm	OH	58941	WTG6	3.4	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	3.4
2026	12	50123	Leeward Asset Management, LLC	IPP	Buena Vista Energy LLC	CA	56446	BVBAT	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	1	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	2	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	3	0.2	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.2
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	4	0.2	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.2
2026	12													

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	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
2026	12	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
2026	12	59056	Trn 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
2026	12	65777	Urban Grid Solar	IPP	Hillboro Solar 3	AL	66582	HILL3	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2026	12	65777	Urban Grid Solar	IPP	Polar Mill Solar	MD	66584	PORM1	45.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	45.0
2027	1	1182	BASF Corporation	Industrial	Geismar	LA	10319	GENA	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	45.0
2027	1	1182	BASF Corporation	Industrial	Geismar	LA	10319	GEN5	25.0	Natural Gas Steam Turbine	NG	ST	(P) Planned for installation, but regulatory approvals not initiated	25.0
2027	1	5248	Dominion Energy Inc.	Electric Utility	Coastal Virginia Offshore Wind (CVOW) Commercial Project	VA	64550	CVOWC	1,265.0	Offshore Wind Turbine	WND	WS	(T) Regulatory approvals received. Not under construction	2,640.0
2027	3	65686	SOF Renewables, LLC	IPP	Stark Solar, LLC	OH	66723	AQ239	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2027	3	65715	Strata Clean Energy	IPP	Austin Creek Solar	IL	66703	11103	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2027	3	65715	Strata Clean Energy	IPP	Patoka Solar	IN	66706	11101	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2027	3	65715	Strata Clean Energy	IPP	Prairie Oak Solar	IL	66707	11102	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2027	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
2027	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
2027	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
2027	4	64138	Birch Creek Development, LLC (NC)	IPP	Friesian Holdings	NC	66092	PV1	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2027	4	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2027	4	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCC11	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2027	5	63807	302PN 8me LLC	IPP	Red Antelope Solar & Energy Storage Farm	AZ	64208	30PN8	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2027	5	63807	302PN 8me LLC	IPP	Red Antelope Solar & Energy Storage Farm	AZ	64208	30PN8	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2027	5	63289	Key Capture Energy	IPP	KCE CT 1, LLC	CT	66879	CT1	105.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	105.0
2027	6	58507	Enemission, Inc.	IPP	La Paz Solar Tower	AZ	58652	3	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2027	6	64514	Royalston Solar One, LLC	IPP	Royalston Solar One	MA	65136	VCP0A	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2027	6	64514	Royalston Solar One, LLC	IPP	Royalston Solar One	MA	65136	VCP51	2.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.5
2027	7	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(P) Planned for installation, but regulatory approvals not initiated	158.5
2027	7	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(P) Planned for installation, but regulatory approvals not initiated	158.5
2027	7	59688	Coronado Power Ventures LLC	IPP	Aagle Power	TX	59624	CTG-1	430.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	430.0
2027	7	59688	Coronado Power Ventures LLC	IPP	Aagle Power	TX	59624	CTG-2	430.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	430.0
2027	7	59688	Coronado Power Ventures LLC	IPP	Aagle Power	TX	59624	STG-1	422.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	422.0
2027	7	65690	Premium Energy Holdings	IPP	Wheale Rock Pumped Storage Hydro Project	CA	66685	WH001	200.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	200.0
2027	7	65690	Premium Energy Holdings	IPP	Wheale Rock Pumped Storage Hydro Project	CA	66685	WH002	200.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	200.0
2027	7	65690	Premium Energy Holdings	IPP	Wheale Rock Pumped Storage Hydro Project	CA	66685	WH003	200.0	Hydroelectric Pumped Storage	WAT	PS	(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	7	65777	Urban Grid Solar	IPP	Spring Valley Solar 2	AL	66588	SRV22	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2027	9	63467	Naturgy Candela DevCo LLC	IPP	Chill Sun Solar Project	NV	65895	CS1	2,250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2,250.0
2027	10	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
2027	10	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2027	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
2027	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
2027	11	64452	EDF Renewables Development, Inc.	IPP	Troy Solar Energy Center	NY	65051	TSEC	110.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	110.0
2027	11	61906	Rye Development	IPP	Allegheny L&D Hydroelectric Project	PA	62401	NA1	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2027	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
2027	11	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA2	6.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.8
2027	12	64904	AES Clean Energy	IPP	Empire Solar (NY)	NY	66663	EMPR	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2027	12	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
2027	12	64452	EDF Renewables Development, Inc.	IPP	Bonanza Solar and Storage Project	NV	66908	BZPV	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2027	12	64452	EDF Renewables Development, Inc.	IPP	Bonanza Solar and Storage Project	NV	66908	BZPV	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2027	12	64452	EDF Renewables Development, Inc.	IPP	Lycan Solar Project	CA	66805	LYCAN	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2027	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	0.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6
2027	12	50123	Leeward Asset Management, LLC	IPP	Rose Gold Solar	IN	65471	RGS23	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2027	12	65817	Lumberton PV I, LLC	IPP	Lumberton PV I, LLC	TX	66904	LB1N	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2027	12	61131	Poplar Camp Wind Farm LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2027	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	-1A	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2027	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	-1B	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2027	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	-1C	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2027	12	61906	Rye Development	IPP	Allegheny L&D Hydroelectric Project	PA	62401	NA2	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2027	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
2027	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
2027	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
2027	12	65716	Scioto Farms Solar Project, LLC	IPP	Scioto Farms Solar	OH	66702	SF1	110.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	110.0
2027	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
2027	12	65815	Sunrayer Assets I LLC	IPP	Lupinus Solar 2, LLC	TX	66896	LP2BA	122.9	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	122.9
2027	12	65815	Sunrayer Assets I LLC	IPP	Lupinus Solar 2, LLC	TX	66896	LP2PV	244.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	244.0
2027	12	64540	TransAlta Corporation	IPP	Prairie Violet Wind LLC	IL	66343	PVLET	135.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	135.0
2028	1	65688	Cold Creek Solar, LLC	IPP	Cold Creek Solar	NY	66674	CCBA	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2028	3	63697	BD Solar Auburn LLC	IPP	Cold Creek Solar	NY	66674	CCSOL	108.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	108.0
2028	3	63697	BD Solar Auburn LLC	IPP	Auburn PV - BD Solar Auburn LLC	ME	64071	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	4	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2028	5	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA2	6.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2028	6	50123	Leeward Asset Management, LLC	IPP	Owens Creek Solar	IL	65446	OC5	500.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	500.0
2028	6	3802	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAIU1	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2028	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
2028	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
2028	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
2028	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
2028	7	65821	Hecate Grid Interopd I LLC	IPP	Hecate Grid Interopd I	NY	66911	HGNI1	250.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65821	Hecate Grid Interopd I LLC	IPP	Hecate Grid Interopd I	NY	66911	HGNI2	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2028	7	65690	Premium Energy Holdings	IPP	Hiawee Pumped Storage Project	CA	66686	HL001	250.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65690	Premium Energy Holdings	IPP	Hiawee Pumped Storage Project	CA	66686	HL002	250.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65690	Premium Energy Holdings	IPP	Hiawee Pumped Storage Project	CA	66686	HL004	250.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65690	Premium Energy Holdings	IPP	Intermountain Pumped Storage Project	UT	66684	HL001	250.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65690	Premium Energy Holdings	IPP	Intermountain Pumped Storage Project	UT	66684	HL002	250.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65690	Premium Energy Holdings	IPP	Intermountain Pumped Storage Project	UT	66684	HL003	250.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65690	Premium Energy Holdings	IPP	Intermountain Pumped Storage Project	UT	66684	HL004	250.0	Hydroelectric Pumped Storage	WAT	PS	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	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
2028	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

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)
2028	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
2028	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
2028	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
2028	8	61906	Rye Development	IPP	Opevika L&D Hydroelectric Project	WV	62386	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2028	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
2028	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
2028	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
2028	9	61906	Rye Development	IPP	Opevika L&D Hydroelectric Project	WV	62386	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2028	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
2028	10	61906	Rye Development	IPP	Devila L&D Hydroelectric Project	OH	62435	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2028	10	61906	Rye Development	IPP	Erid Lake Hydroelectric Project	MS	62432	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2028	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
2028	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
2028	10	61906	Rye Development	IPP	Monongahela L&D Hydroelectric Project	PA	62404	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2028	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
2028	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
2028	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
2028	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
2028	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
2028	11	61906	Rye Development	IPP	Devila L&D Hydroelectric Project	OH	62435	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2028	11	61906	Rye Development	IPP	Erid Lake Hydroelectric Project	MS	62432	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2028	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
2028	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
2028	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
2028	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
2028	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
2028	11	61906	Rye Development	IPP	Matls L&D Hydroelectric Project	OH	62428	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2028	11	61906	Rye Development	IPP	Matls L&D Hydroelectric Project	OH	62428	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2028	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
2028	11	61906	Rye Development	IPP	Monongahela L&D Hydroelectric Project	PA	62404	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2028	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
2028	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
2028	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
2028	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
2028	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
2028	12	61817	Coland Holdings, LLC	IPP	Coland Holdings Solar	NC	62317	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2028	12	58842	Power Company of Wyoming LLC	IPP	Chockcherry and Sierra Madre Wind	WY	58987	I-A	750.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	750.0
2028	12	61784	Rolling Upland Wind Farm LLC	IPP	Rolling Upland Wind Farm LLC	NY	62262	GEN1	71.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	71.4
2028	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
2028	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
2028	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
2029	1	64720	Orsted North America Inc.	IPP	Ocean Wind II	NJ	65394	OCWII	1,148.0	Offshore Wind Turbine	WND	WS	(P) Planned for installation, but regulatory approvals not initiated	1,148.0
2029	12	63448	Ajya Solar CEI LLC	IPP	Ajya Solar Project	NV	58969	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2029	12	58842	Power Company of Wyoming LLC	IPP	Chockcherry and Sierra Madre Wind	WY	58987	I-B	750.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	750.0
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	Aira	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
2023	10	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	1575	1.6	Conventional Hydroelectric	WAT	HY
2023	10	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	500	0.5	Conventional Hydroelectric	WAT	HY
2023	10	34359	Curators of the University of Missouri	Commercial	MU Combined Heat and Power Plant	MO	50969	GEN1	6.0	Natural Gas Steam Turbine	NG	ST
2023	10	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H4	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	59348	WestRock (WA)	Industrial	WestRock (WA)	WA	57099	STG1	55.0	Wood/Wood Waste Biomass	BLQ	ST
2023	11	58615	NRG Homer City Services LLC	IPP	Homer City Generating Station	PA	3122	1	626.1	Conventional Steam Coal	BIT	ST
2023	11	56785	The Westervelt Co	Industrial	Westervelt Moundville Cogen	AL	57467	TG1	8.2	Wood/Wood Waste Biomass	WDS	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	327	Air Liquide Large Industries U S LP	Industrial	Port Neches Plant	TX	54748	G1	32.0	Natural Gas Fired Combustion Turbine	NG	GT
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	17833	City Utilities of Springfield - (MO)	Electric Utility	Cox Battery Energy Storage	MO	61679	1	1.2	Batteries	MWH	BA
2023	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	3	159.0	Conventional Steam Coal	BIT	ST
2023	12	64451	INEOS US Chemicals Company - Naperville Campus	Commercial	INEOS Naperville Cogeneration Plant	IL	50722	GEN1	7.0	Natural Gas Fired Combustion Turbine	NG	GT
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	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G10	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G11	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G12	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G13	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G14	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G15	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G16	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G17	46.4	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G18	46.4	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G19	46.4	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G20	46.4	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G21	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G22	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G23	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G24	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G25	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G26	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G27	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G28	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	G29	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	865.0	Conventional Steam Coal	BIT	ST
2024	1	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	1	626.0	Conventional Steam Coal	BIT	ST
2024	2	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO1	0.5	Petroleum Liquids	DFO	IC
2024	2	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO2	0.5	Petroleum Liquids	DFO	IC
2024	2	8453	Hendricks Regional Health	Commercial	Hendricks Regional Health	IN	54731	GEO3	0.3	Petroleum Liquids	DFO	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE10	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE11	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE12	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE13	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE14	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN5	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN6	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN7	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN8	0.8	Landfill Gas	LFG	IC
2024	3	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN9	0.8	Landfill Gas	LFG	IC
2024	5	13143	Board of Water Electric & Communications	Electric Utility	Muscataine Plant #1	IA	1167	8A	14.5	Conventional Steam Coal	SUB	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	6	56606	Calpine New Jersey Generation LLC	IPP	Carlis Corner	NJ	2379	CA1	37.6	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	56606	Calpine New Jersey Generation LLC	IPP	Carlis Corner	NJ	2379	CA2	39.2	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	56606	Calpine New Jersey Generation LLC	IPP	Mickleton Station	NJ	8008	MICK	63.7	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	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G10	47.1	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	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	G17	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G18	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G19	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	Petroleum Liquids	DFO	GT
2024	9	17539	Dominion Energy South Carolina, Inc	Electric Utility	Coit GT	SC	3281	2	12.0	Petroleum Liquids	DFO	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	54384	L2G	2.0	Petroleum Liquids	DFO	IC
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	1	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	5	259.0	Conventional Steam Coal	BIT	ST
2024	12	57011	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2024	12	56211	Energy Missouri West	Electric Utility	Lake Road (MO)	MO	2098	4	94.6	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	105.0	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2025	1	17568	Cooperative Energy	Electric Utility	Moselle	MS	2070	3	59.0	Natural Gas Steam Turbine	NG	ST
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	15474	Public Service Co of Oklahoma	Electric Utility	Weleetka	OK	2966	4	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	1	15474	Public Service Co of Oklahoma	Electric Utility	Weleetka	OK	2966	5	53.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	3	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	1	217.0	Natural Gas Steam Turbine	NG	ST
2025	3	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	2	230.0	Natural Gas Steam Turbine	NG	ST
2025	3	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	3	412.0	Natural Gas Steam Turbine	NG	ST
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	4	65792	IIT Energy Tech Partners, LLC	Commercial	ITT Cogen Facility	IL	52021	GEN1	3.5	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	65792	IIT Energy Tech Partners, LLC	Commercial	ITT Cogen Facility	IL	52021	GEN2	3.5	Natural Gas Fired Combustion Turbine	NG	GT
2025	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2025	5	4254	Consumers Energy Co	Electric Utility	J H Campbell	MI	1710	1	260.0	Conventional Steam Coal	SUB	ST
2025	5	4254	Consumers Energy Co	Electric Utility	J H Campbell	MI	1710	2	355.5	Conventional Steam Coal	SUB	ST
2025	5	4254	Consumers Energy Co	Electric Utility	J H Campbell	MI	1710	3	784.6	Conventional Steam Coal	SUB	ST
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	11wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	13WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	14wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	15WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	16WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	17WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	1WT	0.6	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	2WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	3WT	0.2	Onshore Wind Turbine	WND	WT
2025	5	20847	Wisconsin Electric Power Co	Electric Utility	South Oak Creek	WI	4041	7	306.5	Conventional Steam Coal	RC	ST
2025	5	20847	Wisconsin Electric Power Co	Electric Utility	South Oak Creek	WI	4041	8	309.5	Conventional Steam Coal	RC	ST
2025	5	20860	Wisconsin Public Service Corp	Electric Utility	West Marinette	WI	4076	31	38.1	Natural Gas Fired Combustion Turbine	NG	GT
2025	5	20860	Wisconsin Public Service Corp	Electric Utility	West Marinette	WI	4076	32	36.7	Natural Gas Fired Combustion Turbine	NG	GT
2025	6	814	Entergy Arkansas LLC	Electric Utility	Lake Catherine	AR	170	4	522.0	Natural Gas Steam Turbine	NG	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2025	6	11241	Entergy Louisiana LLC	Electric Utility	Waterford 1 & 2	LA	8056	2	417.0	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	409.1	Conventional Steam Coal	SUB	ST
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	1	900.0	Conventional Steam Coal	BIT	ST
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	2	900.0	Conventional Steam Coal	BIT	ST
2025	7	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	7	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	8	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	951	0.5	Other Waste Biomass	OBG	IC
2025	8	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	952	0.5	Other Waste Biomass	OBG	IC
2025	8	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	953	0.5	Other Waste Biomass	OBG	IC
2025	8	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	65384	Cartier Energy, LLC	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN2	2.4	Natural Gas Fired Combined Cycle	NG	CA
2025	12	65384	Cartier Energy, LLC	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN3	6.2	Natural Gas Fired Combined Cycle	NG	CT
2025	12	5517	Dynege Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	899	1	576.0	Conventional Steam Coal	SUB	ST
2025	12	5517	Dynege Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	899	2	581.0	Conventional Steam Coal	SUB	ST
2025	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	73.0	Natural Gas Steam Turbine	NG	ST
2025	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2025	12	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	8085	17	361.0	Conventional Steam Coal	BIT	ST
2025	12	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	8085	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	Blue Lake	MN	8027	1	36.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	36.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	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	453.0	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	SUB	ST
2025	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	1	427.0	Conventional Steam Coal	SUB	ST
2025	12	19436	Union Electric Co - (MO)	Electric Utility	Rush Island	MO	6155	1	589.0	Conventional Steam Coal	SUB	ST
2025	12	19436	Union Electric Co - (MO)	Electric Utility	Rush Island	MO	6155	2	589.0	Conventional Steam Coal	SUB	ST
2026	6	14605	City of Peabody - (MA)	Electric Utility	Waters River	MA	1678	1	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	2	365.9	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	3	369.8	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	4	488.8	Natural Gas Steam Turbine	NG	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	5.9	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	12.6	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	13.3	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	5.8	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU3	2.8	Conventional Hydroelectric	WAT	HY
2026	6	20856	Wisconsin Power & Light Co	Electric Utility	Columbia (WI)	WI	8023	1	579.3	Conventional Steam Coal	RC	ST
2026	6	20856	Wisconsin Power & Light Co	Electric Utility	Columbia (WI)	WI	8023	2	568.8	Conventional Steam Coal	SUB	ST
2026	9	13948	City of Oberlin - (KS)	Electric Utility	Oberlin (KS)	KS	1312	1	0.9	Petroleum Liquids	DFO	IC
2026	9	13948	City of Oberlin - (KS)	Electric Utility	Oberlin (KS)	KS	1312	2	0.6	Petroleum Liquids	DFO	IC
2026	9	13948	City of Oberlin - (KS)	Electric Utility	Oberlin (KS)	KS	1312	4	1.2	Petroleum Liquids	DFO	IC
2026	9	13948	City of Oberlin - (KS)	Electric Utility	Oberlin (KS)	KS	1312	5	1.3	Petroleum Liquids	DFO	IC
2026	9	13948	City of Oberlin - (KS)	Electric Utility	Oberlin (KS)	KS	1312	6	1.2	Petroleum Liquids	DFO	IC
2026	10	60094	Clinton Battery Utility, LLC	IPP	Clinton Battery	OH	60297	1	5.0	Batteries	MWH	BA
2026	10	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	1	211.6	Natural Gas Steam Turbine	NG	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2026	10	21048	Wyandotte Municipal Serv Comm	Electric Utility	Wyandotte	MI	1866	4	10.5	Natural Gas Steam Turbine	NG	ST
2026	10	21048	Wyandotte Municipal Serv Comm	Electric Utility	Wyandotte	MI	1866	7	32.0	Natural Gas Steam Turbine	NG	ST
2026	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2026	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2026	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2026	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2026	12	9332	Indian River Operations Inc	IPP	Indian River Generating Station	DE	594	4	410.0	Conventional Steam Coal	BIT	ST
2026	12	61944	MN8 Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT1	0.5	Solar Photovoltaic	SUN	PV
2026	12	61944	MN8 Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT2	0.3	Solar Photovoltaic	SUN	PV
2026	12	61944	MN8 Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT3	0.3	Solar Photovoltaic	SUN	PV
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	1	169.0	Natural Gas Steam Turbine	NG	ST
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	2	169.0	Natural Gas Steam Turbine	NG	ST
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	3	273.0	Natural Gas Steam Turbine	NG	ST
2026	12	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	4	552.0	Natural Gas Steam Turbine	NG	ST
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	1	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	2	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	3	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	5	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	6	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	7	1.8	Petroleum Liquids	DFO	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	8	1.8	Petroleum Liquids	DFO	GT
2026	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	63.0	Natural Gas Steam Turbine	NG	ST
2026	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	83.4	Natural Gas Steam Turbine	NG	ST
2026	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	92.5	Natural Gas Steam Turbine	NG	ST
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	2	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fruita	CO	471	1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	6	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	18642	Tennessee Valley Authority	Electric Utility	Cumberland (TN)	TN	3399	2	1,231.0	Conventional Steam Coal	BIT	ST
2026	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	7	174.0	Conventional Steam Coal	SUB	ST
2026	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	8	174.0	Conventional Steam Coal	SUB	ST
2026	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	9	174.0	Conventional Steam Coal	SUB	ST
2027	1	63844	Ellwood Power, LLC	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2027	1	63843	Ormond Beach Power, LLC	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2027	1	63843	Ormond Beach Power, LLC	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	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	HI	0.4	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HJC	0.2	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	UNIT1	2.7	Solar Photovoltaic	SUN	PV
2027	3	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2027	3	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54384	L1G	2.0	Petroleum Liquids	DFO	IC
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED01	140.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED02	140.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED03	170.0	Natural Gas Fired Combined Cycle	NG	CA
2027	6	64726	Rivers Electric, LLC	IPP	Mill Pond Hydro	NY	65399	U2	0.5	Conventional Hydroelectric	WAT	HY
2027	8	61364	Lockheed Martin RMS Syracuse	Industrial	Lockheed Martin RMS Syracuse	NY	61739	SYR1	1.0	Batteries	MWH	BA
2027	12	56570	Coletto Creek Power LP	IPP	Coletto Creek	TX	6178	1	655.0	Conventional Steam Coal	SUB	ST
2027	12	59918	Dynergy Kincaid Generation	IPP	Kincaid Generation LLC	IL	876	1	554.0	Conventional Steam Coal	SUB	ST
2027	12	59918	Dynergy Kincaid Generation	IPP	Kincaid Generation LLC	IL	876	2	554.0	Conventional Steam Coal	SUB	ST
2027	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	2	73.0	Natural Gas Steam Turbine	NG	ST
2027	12	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	76.0	Natural Gas Steam Turbine	NG	ST
2027	12	520	Illinois Power Generating Co	IPP	Newton	IL	6017	1	595.0	Conventional Steam Coal	SUB	ST
2027	12	59919	Luminant Miami Fort	IPP	Miami Fort	OH	2832	7	510.0	Conventional Steam Coal	BIT	ST
2027	12	59919	Luminant Miami Fort	IPP	Miami Fort	OH	2832	8	510.0	Conventional Steam Coal	BIT	ST
2027	12	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	1	4.7	Petroleum Liquids	RFO	ST
2027	12	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	2	4.8	Petroleum Liquids	RFO	ST
2027	12	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	3	11.0	Petroleum Liquids	RFO	ST
2027	12	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	4	11.9	Petroleum Liquids	RFO	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

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	St Croix Falls	WI	4011	4	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	5	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	6	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	7	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	8	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	1	93.0	Conventional Steam Coal	SUB	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	2	102.0	Conventional Steam Coal	SUB	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	3	220.0	Conventional Steam Coal	SUB	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	4	330.0	Conventional Steam Coal	SUB	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	4	310.0	Natural Gas Steam Turbine	NG	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Hayden	CO	525	2	262.0	Conventional Steam Coal	BIT	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	2	0.6	Conventional Hydroelectric	WAT	HY
2027	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2027	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	4	190.0	Natural Gas Steam Turbine	NG	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	1	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	2	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	3	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	4	132.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	5	174.0	Conventional Steam Coal	SUB	ST
2027	12	18642	Tennessee Valley Authority	Electric Utility	Kingston	TN	3407	6	174.0	Conventional Steam Coal	SUB	ST
2027	12	24211	Tucson Electric Power Co	Electric Utility	Springerville	AZ	8223	1	381.0	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	3	620.0	Conventional Steam Coal	BIT	ST
2028	12	16604	City of San Antonio - (TX)	Electric Utility	J K Spruce	TX	7097	1	560.0	Conventional Steam Coal	SUB	ST
2028	12	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST1	635.0	Conventional Steam Coal	SUB	ST
2028	12	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST2	635.0	Conventional Steam Coal	SUB	ST
2028	12	5109	DTE Electric Company	Electric Utility	Monroe (MI)	MI	1733	3	773.0	Conventional Steam Coal	SUB	ST
2028	12	5109	DTE Electric Company	Electric Utility	Monroe (MI)	MI	1733	4	762.0	Conventional Steam Coal	SUB	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	BIT	ST
2028	12	17543	South Carolina Public Service Authority	Electric Utility	Winyah	SC	6249	2	285.0	Conventional Steam Coal	BIT	ST
2028	12	17543	South Carolina Public Service Authority	Electric Utility	Winyah	SC	6249	3	285.0	Conventional Steam Coal	BIT	ST
2028	12	17543	South Carolina Public Service Authority	Electric Utility	Winyah	SC	6249	4	285.0	Conventional Steam Coal	BIT	ST
2028	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	1	112.0	Natural Gas Steam Turbine	NG	ST
2028	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	1	532.0	Conventional Steam Coal	SUB	ST
2028	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	2	535.0	Conventional Steam Coal	SUB	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	SUB	ST
2028	12	19436	Union Electric Co - (MO)	Electric Utility	Sioux	MO	2107	2	487.0	Conventional Steam Coal	SUB	ST
2029	3	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	2	410.0	Natural Gas Steam Turbine	NG	ST
2029	6	65384	Cartier Energy, LLC	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN4	1.4	Other Natural Gas	NG	FC
2029	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	3	501.1	Natural Gas Steam Turbine	NG	ST
2029	9	10875	Lee County Board-Commissioners	IPP	Lee County Solid Waste Energy	FL	52010	GEN1	39.0	Municipal Solid Waste	MSW	ST
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	73.5	Onshore Wind Turbine	WNDD	WT
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

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
2029	12	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	2	858.0	Conventional Steam Coal	SUB	ST
2029	12	14354	PacifiCorp	Electric Utility	Naughton	WY	4162	3	247.0	Natural Gas Steam Turbine	NG	ST
2029	12	15143	Platte River Power Authority	Electric Utility	Rawhide	CO	6761	1	280.0	Conventional Steam Coal	SUB	ST
2029	12	30151	Tri-State G & T Assn. Inc	Electric Utility	Craig (CO)	CO	6021	3	448.0	Conventional Steam Coal	SUB	ST
2030	5	8973	Town of Hudson - (MA)	Electric Utility	Cherry Street	MA	9038	10	1.9	Natural Gas Internal Combustion Engine	NG	IC
2030	5	8973	Town of Hudson - (MA)	Electric Utility	Cherry Street	MA	9038	11	1.9	Natural Gas Internal Combustion Engine	NG	IC
2030	6	327	Air Liquide Large Industries U S LP	Industrial	Geismar Cogen	LA	56787	GTG	72.5	Natural Gas Fired Combustion Turbine	NG	GT
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2030	6	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	58.0	Petroleum Liquids	DFO	GT
2030	6	16732	San Jose State University Folts Dev &Ops	Commercial	San Jose Cogeneration	CA	10548	GEN1	5.6	Natural Gas Fired Combustion Turbine	NG	GT
2030	10	6013	Eugene Water & Electric Board	Electric Utility	Carmen Smith	OR	3067	3	3.8	Conventional Hydroelectric	WAT	HY
2030	10	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2030	10	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2030	10	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2030	10	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	STM	28.0	Natural Gas Fired Combined Cycle	NG	CA
2030	12	5701	El Paso Electric Co	Electric Utility	Copper	TX	9	1	63.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	3	244.0	Natural Gas Steam Turbine	NG	ST
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Natural Gas	NG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Natural Gas	NG	FC
2031	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	6(4)	741.0	Natural Gas Steam Turbine	NG	ST
2031	8	61944	MN8 Energy LLC	IPP	L'Oreal Piscataway	NJ	57866	UNIT4	0.7	Solar Photovoltaic	SUN	PV
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	90.0	Natural Gas Steam Turbine	NG	ST
2031	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	86.0	Natural Gas Fired Combined Cycle	NG	CA
2031	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	67.0	Natural Gas Fired Combined Cycle	NG	CT
2031	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	67.0	Natural Gas Fired Combined Cycle	NG	CT
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	80.0	Natural Gas Fired Combustion Turbine	NG	GT
2031	12	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	2	80.0	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	SUB	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	2	225.0	Conventional Steam Coal	SUB	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	3	263.0	Conventional Steam Coal	SUB	ST
2031	12	18642	Tennessee Valley Authority	Electric Utility	Gallatin (TN)	TN	3403	4	263.0	Conventional Steam Coal	SUB	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	5109	DTE Electric Company	Electric Utility	Monroe (MI)	MI	1733	1	758.0	Conventional Steam Coal	SUB	ST
2032	12	5109	DTE Electric Company	Electric Utility	Monroe (MI)	MI	1733	2	773.0	Conventional Steam Coal	SUB	ST
2032	12	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2032	12	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2032	12	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
2032	12	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
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

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
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	6	36.9	Natural Gas Fired Combustion Turbine	NG	GT
2032	12	16553	Saguaro Power Co	Electric CHP	Saguaro Power	NV	54271	CTG1	36.0	Natural Gas Fired Combined Cycle	NG	CT
2032	12	16553	Saguaro Power Co	Electric CHP	Saguaro Power	NV	54271	CTG2	36.0	Natural Gas Fired Combined Cycle	NG	CT
2032	12	16553	Saguaro Power Co	Electric CHP	Saguaro Power	NV	54271	STG	29.0	Natural Gas Fired Combined Cycle	NG	CA
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO1	380.0	Conventional Steam Coal	SUB	ST
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO2	382.0	Conventional Steam Coal	SUB	ST
2032	12	24211	Tucson Electric Power Co	Electric Utility	Springerville	AZ	8223	2	406.0	Conventional Steam Coal	SUB	ST
2033	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	5	740.9	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	Natural Gas Steam Turbine	NG	ST
2034	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Marshall (NC)	NC	2727	2	370.0	Conventional Steam Coal	BIT	ST
2034	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	3	876.0	Conventional Steam Coal	SUB	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	2	243.0	Natural Gas Steam Turbine	NG	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Quay County	NM	58125	1	17.0	Petroleum Liquids	DFO	GT
2035	6	12685	Entergy Mississippi LLC	Electric Utility	Gerald Andrus	MS	8054	1	706.5	Natural Gas Steam Turbine	NG	ST
2035	12	20169	Avista Corp	Electric Utility	Northeast (WA)	WA	6210	1	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2035	12	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage CSG	NY	63774	KISCB	0.5	Batteries	MWH	BA
2035	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	80.0	Natural Gas Fired Combustion Turbine	NG	GT
2035	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
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
2038	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	2	339.0	Conventional Steam Coal	SUB	ST
2039	10	65384	Cartier Energy, LLC	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
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	2.8	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
2052	1	64390	Brighter Future Solar LLC	IPP	Brighter Future Solar	NC	64910	BFSNC	11.0	Solar Photovoltaic	SUN	PV
2056	11	64170	Camden Solar LLC	IPP	Camden Solar LLC	NC	64535	KOV4A	20.0	Solar Photovoltaic	SUN	PV
2056	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	3	166.0	Natural Gas Fired Combustion Turbine	NG	GT

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
2057	4	64393	Tulare Solar Center, LLC	IPP	Luciana	CA	64909	TSC	55.8	Solar Photovoltaic	SUN	PV
2057	12	59474	BQ Energy LLC	IPP	West Valley East	NY	62738	WVE	5.0	Solar Photovoltaic	SUN	PV
2057	12	59474	BQ Energy LLC	IPP	West Valley West	NY	62737	WVW	5.0	Solar Photovoltaic	SUN	PV
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
2061	1	63631	Four Brothers 2, LLC	IPP	Hertford Solar Power, LLC	NC	63024	KEH	10.0	Solar Photovoltaic	SUN	PV
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2064	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2072	8	10875	Lee County Board-Commissioners	IPP	Lee County Solid Waste Energy	FL	52010	GEN2	16.0	Municipal Solid Waste	MSW	ST

NOTES:

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

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

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

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

Year/Month	Coal				Natural Gas						Petroleum					
	Combined Cycle		Gas Turbine		Steam Turbine		Internal Combustion		Steam Turbine		Gas Turbine		Internal Combustion			
	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor		
Annual Data																
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	57.4%	128,832.5	11.4%	72,797.3	14.1%	4,848.3	15.3%	11,214.7	12.8%	14,009.7	1.0%	5,287.8	2.0%
2020	220,623.2	40.5%	274,300.4	57.1%	129,085.6	11.6%	75,462.3	14.2%	5,123.0	15.1%	8,443.3	13.9%	13,875.8	1.2%	5,300.7	1.8%
2021	212,587.0	49.1%	277,618.5	55.0%	130,103.4	11.7%	74,003.4	12.5%	5,171.8	18.2%	8,385.5	14.2%	13,729.8	1.6%	5,522.7	1.8%
2022	196,396.3	48.4%	286,467.1	56.6%	130,170.6	12.9%	77,518.8	15.6%	5,526.9	18.1%	9,839.0	13.2%	15,005.7	1.6%	5,407.0	1.8%
Year 2021																
January	214,601.5	51.5%	275,710.6	54.7%	129,543.1	8.2%	74,184.1	7.7%	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	10.2%	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	20.1%	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	39.2%	279,817.8	51.6%	130,663.1	11.6%	73,779.4	8.9%	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	7.4%	5,227.7	17.1%	8,173.5	13.8%	13,689.1	1.2%	5,498.2	2.0%
Year 2022																
January	202,043.3	57.4%	284,236.2	55.6%	129,881.8	11.3%	78,088.0	14.8%	5,454.3	16.0%	9,839.0	19.6%	15,279.8	1.4%	5,401.4	2.2%
February	202,013.8	52.2%	284,236.2	52.4%	129,967.8	9.6%	78,088.0	11.7%	5,454.3	14.8%	9,839.0	15.3%	15,279.8	0.9%	5,402.0	1.8%
March	200,821.8	41.0%	284,247.2	46.6%	130,009.3	8.3%	77,514.0	8.5%	5,484.9	13.6%	9,839.0	9.8%	15,245.8	1.0%	5,392.6	1.7%
April	200,376.8	38.5%	284,450.3	44.2%	130,070.8	9.6%	77,514.0	9.6%	5,486.4	13.5%	9,839.0	10.1%	15,119.1	0.9%	5,395.3	1.7%
May	198,851.8	42.1%	283,899.1	49.6%	130,070.8	12.5%	77,514.0	14.6%	5,544.4	14.7%	9,839.0	12.0%	15,119.1	1.4%	5,399.7	1.8%
June	195,863.8	52.5%	286,389.0	61.2%	130,127.6	16.9%	77,510.0	20.2%	5,546.0	18.8%	9,839.0	12.2%	14,947.1	1.8%	5,407.0	1.9%
July	195,861.8	59.6%	287,485.0	70.5%	130,274.1	20.2%	77,510.0	28.1%	5,549.7	23.0%	9,839.0	10.3%	14,947.1	2.5%	5,410.4	1.7%
August	194,856.8	59.2%	288,566.5	72.4%	130,035.1	18.6%	77,379.0	22.4%	5,563.9	25.1%	9,839.0	11.8%	14,947.1	2.2%	5,410.7	1.7%
Sept	192,425.8	47.3%	288,493.5	63.9%	130,259.8	13.9%	77,374.0	16.3%	5,559.0	21.7%	9,839.0	13.1%	14,858.1	1.7%	5,409.2	1.8%
October	192,425.8	38.7%	288,458.5	53.0%	130,348.7	10.3%	77,374.0	13.3%	5,558.0	17.9%	9,839.0	12.3%	14,817.2	1.4%	5,413.1	1.8%
November	192,271.3	40.9%	288,485.6	52.0%	130,380.6	11.3%	77,379.8	13.7%	5,555.9	17.9%	9,839.0	13.6%	14,789.6	1.0%	5,420.9	1.6%
December	189,316.3	51.4%	288,504.6	56.8%	130,606.5	12.5%	77,026.8	14.1%	5,560.7	19.3%	9,839.0	18.2%	14,735.6	2.8%	5,421.2	2.2%
Year 2023																
January	188,532.2	44.3%	288,552.6	56.6%	131,164.3	9.3%	77,620.4	9.5%	5,563.4	17.2%	9,029.0	9.2%	14,242.4	1.0%	5,426.3	1.8%
February	188,521.6	37.0%	288,784.6	56.6%	131,164.3	8.9%	77,620.4	10.1%	5,566.0	16.7%	9,029.0	11.1%	14,242.4	0.9%	5,424.3	1.4%
March	187,716.7	35.9%	290,073.6	52.9%	130,974.1	10.3%	77,540.4	11.5%	5,567.5	19.1%	9,029.0	9.4%	14,242.4	1.1%	5,426.4	2.1%
April	187,721.7	30.2%	290,635.6	47.5%	130,974.1	12.3%	77,145.4	13.5%	5,569.0	17.7%	9,029.0	8.7%	14,242.4	1.7%	5,426.4	2.4%
May	186,233.3	32.3%	292,543.2	52.3%	130,497.5	13.8%	76,355.4	15.6%	5,569.9	17.6%	9,029.0	7.6%	14,653.6	2.0%	5,425.9	2.3%
June	184,080.1	44.0%	292,630.9	62.6%	130,712.0	17.0%	76,041.4	21.2%	5,569.9	22.8%	9,029.0	10.7%	14,505.2	2.3%	5,412.7	2.5%
July	183,431.2	57.9%	293,855.3	72.6%	130,875.8	23.2%	76,041.4	30.8%	5,569.9	30.2%	9,029.0	15.6%	14,505.2	3.2%	5,426.5	2.4%
August	182,817.9	57.6%	293,855.3	72.7%	131,498.3	22.5%	76,041.4	29.9%	5,701.5	30.4%	9,029.0	14.2%	14,505.2	3.5%	5,426.5	2.5%
Sept	182,817.9	45.9%	293,855.3	64.8%	131,498.3	14.9%	75,005.4	21.3%	5,701.5	22.5%	9,029.0	16.6%	14,505.2	1.9%	5,438.6	1.8%

Values for 2022 and prior years are final. Values for 2023 are preliminary.

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

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

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

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

Year/Month	Geothermal		Hydroelectric		Nuclear		Other Biomass		Other Gas		Solar		Wind		Wood			
	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor	Time Adjusted Capacity (MW)	Capacity Factor		
Annual Data																		
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%	107,387.1	35.3%	8,327.2	57.8%
2021	2,588.5	69.8%	79,878.4	36.0%	95,802.7	92.8%	4,490.4	63.2%	1,902.5	60.9%	51,219.7	24.4%	1,629.0	20.5%	123,757.1	34.4%	7,959.0	59.9%
2022	2,616.0	69.0%	80,054.5	36.3%	94,969.9	92.7%	4,402.5	60.2%	1,716.0	61.6%	64,501.0	24.4%	1,480.0	23.1%	136,669.4	35.9%	7,817.6	57.9%
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	73.9%	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	89.7%	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	82.2%	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	2,592.8	75.1%	80,036.5	40.6%	95,406.4	99.4%	4,460.5	60.7%	1,664.2	64.2%	60,335.2	16.8%	1,480.0	11.3%	132,415.6	37.5%	7,829.0	60.8%
February	2,592.8	70.3%	80,040.6	39.6%	95,406.4	96.5%	4,459.1	60.6%	1,664.2	62.8%	61,350.2	21.2%	1,480.0	15.9%	133,711.4	41.6%	7,829.0	62.6%
March	2,592.8	65.7%	80,050.6	41.0%	95,406.4	89.0%	4,444.5	59.8%	1,664.2	63.4%	61,673.4	24.4%	1,480.0	23.1%	133,969.5	42.7%	7,829.0	57.4%
April	2,592.8	67.1%	80,054.7	34.8%	95,406.4	80.5%	4,437.0	60.0%	1,733.5	56.2%	62,666.8	28.5%	1,480.0	30.1%	135,080.4	46.6%	7,829.0	54.9%
May	2,609.8	67.4%	80,054.7	39.2%	95,427.4	89.3%	4,434.2	59.2%	1,733.5	59.9%	63,122.2	30.9%	1,480.0	33.5%	137,384.2	41.1%	7,811.3	55.4%
June	2,609.8	67.0%	80,057.2	45.1%	94,658.9	96.4%	4,434.2	61.7%	1,733.5	63.6%	63,890.6	33.2%	1,480.0	34.9%	137,594.2	33.9%	7,805.5	59.5%
July	2,609.8	67.1%	80,057.2	41.2%	94,658.9	97.8%	4,374.4	61.7%	1,733.5	63.7%	65,118.6	31.2%	1,480.0	26.2%	137,993.8	28.6%	7,805.5	61.5%
August	2,639.4	67.9%	80,057.2	35.5%	94,658.9	97.8%	4,378.3	60.7%	1,733.5	59.5%	65,707.2	28.4%	1,480.0	25.3%	137,999.4	24.0%	7,817.5	60.3%
Sept	2,661.3	68.6%	80,058.7	29.5%	94,658.9	93.5%	4,369.7	59.5%	1,733.5	61.6%	66,419.3	26.5%	1,480.0	26.7%	138,005.0	27.3%	7,817.5	56.4%
October	2,620.5	65.3%	80,059.2	24.1%	94,658.9	83.7%	4,366.5	59.2%	1,733.5	59.5%	67,201.8	22.9%	1,480.0	26.4%	138,005.0	31.6%	7,817.5	50.9%
November	2,620.5	72.6%	80,059.2	31.0%	94,658.9	91.0%	4,354.3	59.6%	1,733.5	63.2%	67,739.4	16.5%	1,480.0	14.1%	138,025.0	40.8%	7,817.5	56.7%
December	2,648.6	74.1%	80,067.7	34.3%	94,658.9	98.1%	4,322.3	60.1%	1,728.2	62.3%	68,569.5	12.5%	1,480.0	9.0%	139,628.0	36.8%	7,804.5	58.8%
Year 2023																		
January	2,648.6	78.4%	80,048.6	37.4%	94,658.9	100.6%	4,322.3	61.8%	1,728.2	64.4%	71,177.9	14.6%	1,480.0	7.7%	141,402.2	37.1%	7,804.5	59.2%
February	2,648.6	72.6%	80,066.6	34.7%	94,658.9	95.6%	4,292.3	60.3%	1,728.2	67.6%	72,588.9	18.3%	1,480.0	11.0%	142,051.3	43.8%	7,804.5	57.5%
March	2,648.6	69.4%	80,066.6	34.0%	94,658.9	89.2%	4,292.3	58.7%	1,698.2	60.9%	73,137.4	21.5%	1,480.0	14.0%	142,766.7	41.4%	7,831.3	51.7%
April	2,648.6	69.6%	80,085.6	30.3%	94,658.9	83.1%	4,292.3	54.6%	1,698.2	46.1%	73,756.4	26.6%	1,480.0	27.9%	143,180.5	41.4%	7,831.3	47.5%
May	2,673.6	68.5%	80,056.6	46.1%	94,658.9	87.3%	4,292.3	60.0%	1,725.1	54.4%	74,634.8	29.2%	1,480.0	27.5%	143,847.3	29.7%	7,786.3	53.9%
June	2,673.6	65.7%	80,059.0	33.8%	94,658.9	95.3%	4,292.3	60.8%	1,725.1	55.6%	75,703.8	30.8%	1,480.0	34.6%	144,618.5	26.3%	7,778.8	53.9%
July	2,673.6	65.2%	80,059.0	35.7%	94,658.9	99.1%	4,293.6	60.7%	1,725.1	63.4%	77,302.8	31.1%	1,480.0	35.0%	144,618.5	25.8%	7,778.8	54.6%
August	2,673.6	67.1%	80,059.0	35.5%	95,772.9	97.9%	4,293.6	59.9%	1,725.1	71.6%	79,299.6	29.0%	1,480.0	28.4%	144,618.5	26.4%	7,778.8	56.3%
Sept	2,673.6	69.8%	80,056.2	28.6%	95,772.9	95.1%	4,295.4	57.1%	1,725.1	61.0%	79,902.2	25.7%	1,480.0	27.7%	144,634.5	27.0%	7,778.8	50.3%

Values for 2022 and prior years are final. Values for 2023 are preliminary.
 Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
 Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.
 Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

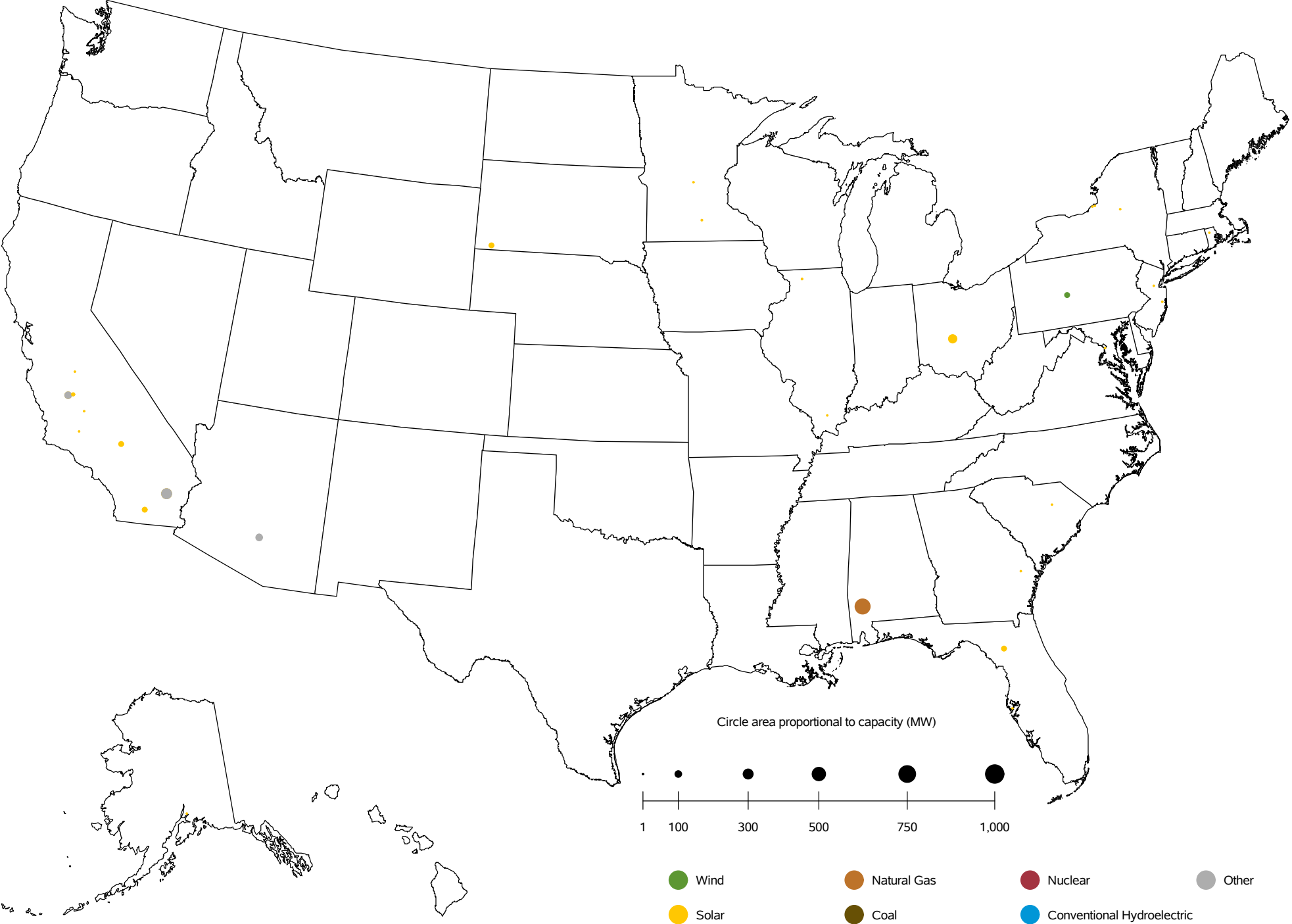
Year/Month	Battery		Pumped Storage	
	Time Adjusted Capacity (MW)	Usage Factor	Time Adjusted Capacity (MW)	Usage Factor
Annual Data				
2013	126.7	0.7%	22,389.3	9.8%
2014	155.1	1.7%	22,477.9	10.2%
2015	205.8	3.6%	22,568.9	10.2%
2016	423.0	3.8%	22,752.7	11.2%
2017	632.8	6.8%	22,791.7	11.4%
2018	713.6	5.2%	22,815.4	10.8%
2019	949.8	5.4%	22,754.7	10.4%
2020	1,210.3	5.2%	22,938.6	10.5%
2021	2,627.6	6.1%	23,007.7	10.2%
2022	6,566.1	6.4%	23,033.9	11.1%
Year 2021				
January	1,505.6	4.2%	23,007.7	8.1%
February	1,643.0	5.6%	23,007.7	9.0%
March	1,653.0	5.5%	23,007.7	7.4%
April	1,780.4	5.1%	23,007.7	7.2%
May	1,958.8	6.1%	23,007.7	8.7%
June	2,499.4	6.4%	23,007.7	12.4%
July	2,777.0	6.5%	23,007.7	15.2%
August	3,043.5	7.4%	23,007.7	15.9%
Sept	3,110.9	7.1%	23,007.7	12.8%
October	3,304.5	6.0%	23,007.7	9.7%
November	3,765.6	6.2%	23,007.7	7.7%
December	4,418.2	5.8%	23,007.7	8.6%
Year 2022				
January	4,926.4	5.5%	23,013.4	9.5%
February	4,996.7	6.6%	23,013.4	8.9%
March	5,069.2	5.7%	23,013.4	9.1%
April	5,316.2	6.0%	23,013.4	7.3%
May	6,055.5	6.4%	23,043.9	10.9%
June	6,064.5	7.1%	23,043.9	14.8%
July	6,555.2	6.9%	23,043.9	15.9%
August	6,941.6	6.6%	23,043.9	16.4%
Sept	7,469.9	6.1%	23,043.9	13.2%
October	7,958.4	6.7%	23,043.9	8.4%
November	8,630.7	6.7%	23,043.9	9.2%
December	8,696.4	6.5%	23,043.9	9.6%
Year 2023				
January	9,027.4	5.7%	23,076.9	9.2%
February	9,092.7	5.3%	23,076.9	9.6%
March	9,174.7	5.9%	23,156.9	9.2%
April	9,442.8	5.8%	23,166.5	8.8%
May	9,611.8	5.2%	23,166.5	11.0%
June	9,755.4	5.2%	23,166.5	13.8%
July	10,816.2	5.5%	23,166.5	15.8%
August	12,306.2	5.6%	23,166.5	15.6%
Sept	12,795.4	5.6%	23,166.5	13.3%

Values for 2022 and prior years are final. Values for 2023 are preliminary.
 Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.

Usage factors are a comparison of gross generation with available capacity. See the technical note for an explanation of how usage factors are calculated.

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

Figure 6.1.A. Utility-Scale Generating Units Added in September 2023



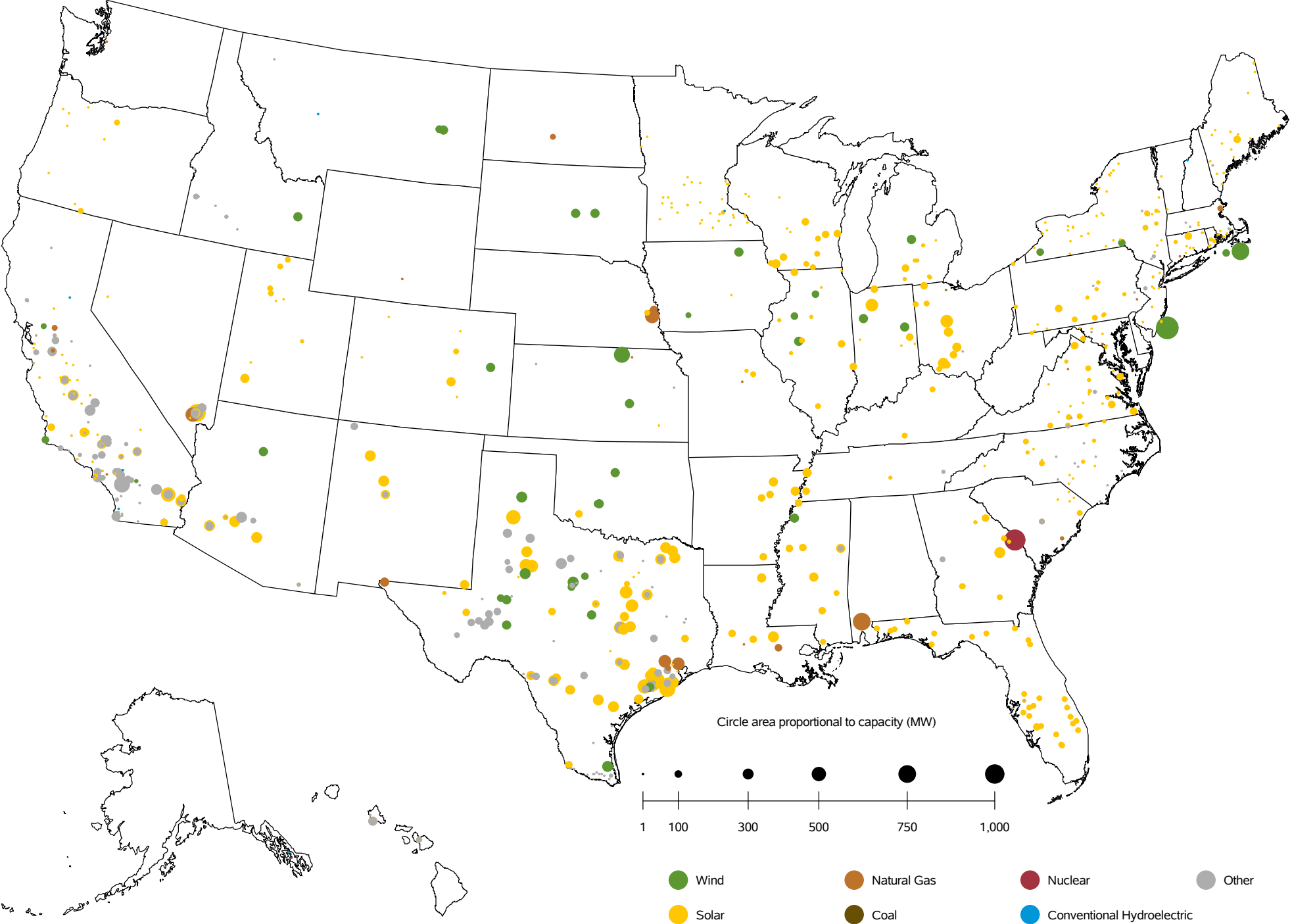
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in September 2023



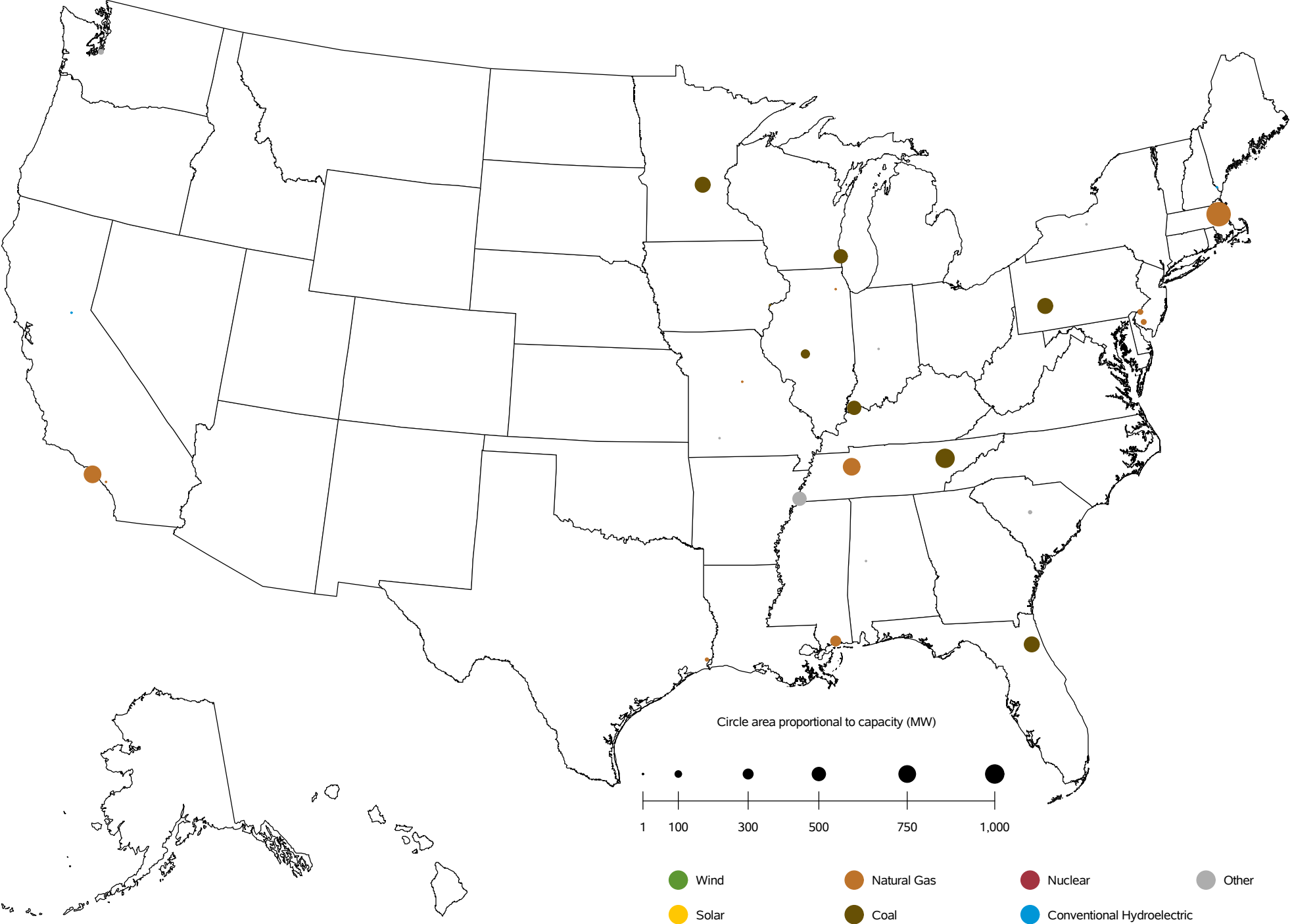
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from October 2023 to September 2024



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 October 2023 to September 2024



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
2022	52,187,403	10,651,209	4,782,900	5,107,113	56,970,303	15,758,322	41,211,981
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	4,042,047	1,308,758	425,753	161,512	4,467,800	1,470,270	2,997,530
February	3,215,153	1,171,627	144,626	367,552	3,359,779	1,539,179	1,820,600
March	3,388,199	1,207,760	293,001	477,405	3,681,200	1,685,165	1,996,035
April	3,552,599	934,026	317,755	440,121	3,870,354	1,374,147	2,496,207
May	4,010,343	1,025,038	364,183	582,820	4,374,526	1,607,858	2,766,668
June	5,123,334	641,211	391,371	489,104	5,514,705	1,130,315	4,384,390
July	6,295,212	766,185	443,070	507,701	6,738,282	1,273,886	5,464,396
August	6,810,768	765,145	418,236	550,822	7,229,004	1,315,967	5,913,037
Sept	4,683,783	867,176	504,443	483,658	5,188,226	1,350,834	3,837,392
October	3,740,536	838,388	399,055	413,166	4,139,591	1,251,554	2,888,037
November	3,067,640	562,777	466,374	344,579	3,534,014	907,356	2,626,658
December	4,257,789	563,118	615,033	288,673	4,872,822	851,791	4,021,031
Year 2023							
January	4,080,305	769,353	393,029	403,105	4,473,334	1,172,458	3,300,876
February	3,100,194	1,362,099	410,963	188,332	3,511,157	1,550,431	1,960,726
March	3,458,995	1,241,647	419,500	59,250	3,878,495	1,300,897	2,577,598
April	3,423,252	1,544,551	163,079	128,981	3,586,331	1,673,532	1,912,799
May	3,606,207	1,099,609	297,511	179,615	3,903,718	1,279,224	2,624,494
June	2,616,523	1,236,416	449,132	139,691	3,065,655	1,376,107	1,689,548
July	2,588,006	1,808,004	628,915	155,251	3,216,921	1,963,255	1,253,666
August	2,365,281	1,453,099	635,633	153,225	3,000,914	1,606,324	1,394,590
Sept	1,773,886	2,107,530	581,900	142,050	2,355,786	2,249,580	106,206

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, 2013 - September 2023 (Thousand Megawatthours)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2022	6,723	7,511	1,768	0	16,003
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	573	163	0	1,265
February	448	579	141	0	1,167
March	504	569	147	0	1,220
April	509	553	129	0	1,191
May	559	724	178	0	1,461
June	691	696	137	0	1,525
July	677	707	160	0	1,545
August	642	645	159	0	1,445
Sept	614	676	144	0	1,435
October	426	526	116	0	1,068
November	587	625	150	0	1,362
December	536	638	144	0	1,318
Year 2023					
January	476	585	126	0	1,188
February	429	547	124	0	1,100
March	497	606	143	0	1,246
April	523	621	143	0	1,287
May	631	689	126	0	1,445
June	696	697	146	0	1,539
July	766	721	146	0	1,633
August	743	722	163	0	1,628
Sept	725	746	146	0	1,618
Year to Date					
2021	5,314	5,629	1,417	0	12,359
2022	5,174	5,722	1,359	0	12,255
2023	5,486	5,935	1,263	0	12,684
Rolling 12 Months Ending in September					
2022	6,979	7,578	1,796	0	16,353
2023	7,035	7,724	1,672	0	16,431

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, 2013 - September 2023 (Million Dollars)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2022	1,902	2,335	505	0	4,742
Year 2021					
January	92	108	22	0	222
February	72	95	23	0	190
March	120	149	41	0	310
April	108	150	23	0	281
May	121	136	29	0	285
June	138	152	29	0	320
July	133	170	31	0	333
August	158	163	49	0	370
Sept	161	179	37	0	377
October	142	167	32	0	341
November	138	161	31	0	331
December	123	171	33	0	327
Year 2022					
January	136	154	40	0	331
February	116	168	36	0	321
March	139	188	41	0	368
April	136	182	35	0	353
May	151	226	48	0	425
June	190	204	40	0	435
July	237	238	57	0	532
August	191	212	48	0	452
Sept	170	203	41	0	414
October	140	195	40	0	375
November	157	187	41	0	385
December	138	175	38	0	351
Year 2023					
January	108	147	29	0	283
February	101	144	30	0	275
March	124	167	37	0	328
April	128	167	36	0	332
May	152	187	31	0	371
June	154	145	32	0	331
July	184	198	39	0	421
August	174	180	37	0	390
Sept	143	158	28	0	329
Year to Date					
2021	1,103	1,301	284	0	2,687
2022	1,466	1,777	387	0	3,630
2023	1,267	1,495	299	0	3,062
Rolling 12 Months Ending in September					
2022	1,870	2,276	483	0	4,629
2023	1,703	2,052	418	0	4,173

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, 2013 - September 2023**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2022	1,370,811	127,741	589	0	1,499,141
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	127,193	590	0	1,493,885
February	1,365,877	127,084	590	0	1,493,551
March	1,366,362	127,176	589	0	1,494,127
April	1,368,406	127,392	587	0	1,496,385
May	1,369,833	127,589	585	0	1,498,007
June	1,372,587	127,921	588	0	1,501,096
July	1,372,079	127,976	588	0	1,500,643
August	1,372,668	127,954	589	0	1,501,211
Sept	1,373,141	128,077	590	0	1,501,808
October	1,374,149	128,107	590	0	1,502,846
November	1,374,192	128,189	589	0	1,502,970
December	1,374,331	128,237	590	0	1,503,158
Year 2023					
January	1,374,717	128,300	589	0	1,503,606
February	1,375,176	128,310	588	0	1,504,074
March	1,376,298	128,038	580	0	1,504,916
April	1,377,070	127,609	580	0	1,505,259
May	1,378,115	127,666	579	0	1,506,360
June	1,379,369	127,596	580	0	1,507,545
July	1,380,020	127,635	581	0	1,508,236
August	1,380,809	127,610	580	0	1,508,999
Sept	1,381,572	127,764	581	0	1,509,917
Rolling 12 Months Ending in September					
2022	1,368,480	127,435	590	0	1,496,505
2023	1,377,152	127,922	584	0	1,505,657

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, 2013 - September 2023 (Cents per Kilowatthour)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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
2022	28.29	31.09	28.56	--	29.63
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	26.92	24.76	--	26.14
February	25.92	29.12	25.69	--	27.48
March	27.49	33.05	27.86	--	30.13
April	26.69	33.02	27.10	--	29.67
May	27.03	31.19	26.87	--	29.07
June	27.50	29.36	29.29	--	28.51
July	35.05	33.68	35.35	--	34.46
August	29.76	32.94	30.46	--	31.26
Sept	27.71	30.02	28.30	--	28.85
October	32.92	37.07	34.49	--	35.14
November	26.75	29.96	27.11	--	28.26
December	25.75	27.49	26.46	--	26.67
Year 2023					
January	22.58	25.12	22.80	--	23.86
February	23.60	26.38	23.90	--	25.01
March	24.84	27.63	26.16	--	26.35
April	24.45	26.98	25.39	--	25.77
May	24.17	27.22	24.95	--	25.69
June	22.12	20.83	21.97	--	21.52
July	24.06	27.44	26.60	--	25.78
August	23.39	24.93	22.46	--	23.98
Sept	19.68	21.17	19.44	--	20.35
Year to Date					
2021	20.75	23.11	20.04	--	21.74
2022	28.34	31.06	28.44	--	29.62
2023	23.10	25.19	23.70	--	24.14
Rolling 12 Months Ending in September					
2022	26.79	30.04	26.89	--	28.31
2023	24.20	26.57	24.99	--	25.40

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-September 2023

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	107	1,163	0	3,082	0	0	4,806
2008	454	107	1,163	0	3,516	0	0	5,240
2009	454	107	1,163	0	3,639	0	0	5,363
2010	454	107	1,163	0	3,640	0	0	5,364
2011	454	107	1,163	0	3,642	5	0	5,372
2012	454	107	1,163	0	3,643	21	98	5,486
2013	454	107	1,163	0	3,643	24	98	5,489
2014	454	107	1,163	0	3,645	35	99	5,504
2015	454	107	1,163	9	3,649	68	99	5,549
2016	454	107	1,163	33	3,652	142	99	5,650
2017	454	107	1,163	35	3,653	142	99	5,654
2018	454	107	1,349	35	3,656	142	99	5,843
2019	454	107	1,358	35	3,661	146	99	5,861
2020	454	107	1,367	38	3,663	156	99	5,885
2021	454	107	1,377	38	3,665	156	99	5,896
2022	454	107	1,381	40	3,749	156	99	5,986
Year 2023								
January	454	98	1,384	37	3,749	152	99	5,974
February	454	98	1,384	37	3,749	152	99	5,974
March	454	98	1,384	37	3,749	152	99	5,974
April	454	98	1,384	37	3,749	152	99	5,974
May	454	98	1,384	37	3,749	152	99	5,974
June	454	98	1,384	37	3,749	154	99	5,976
July	454	98	1,384	37	3,749	154	99	5,976
August	454	98	1,384	37	3,749	154	99	5,976
Sept	454	98	1,384	37	3,749	154	99	5,976

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, September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	20	0	2	0	0	9
Connecticut	0	46	0	1	0	0	34
Maine	0	6	0	11	0	0	13
Massachusetts	0	13	0	4	0	0	23
New Hampshire	0	20	0	0	0	0	17
Rhode Island	0	127	0	7	0	0	210
Vermont	0	50	0	0	0	0	19
Middle Atlantic	16	11	0	1	21	0	2
New Jersey	0	114	0	2	0	0	0
New York	0	11	0	2	0	0	2
Pennsylvania	16	32	0	1	28	0	12
East North Central	0	10	25	1	7	0	15
Illinois	0	18	0	3	0	0	52
Indiana	0	5	0	2	12	0	35
Michigan	0	9	0	2	0	0	32
Ohio	1	21	53	1	23	0	30
Wisconsin	0	89	0	4	0	0	26
West North Central	0	11	0	5	0	0	10
Iowa	0	23	0	7	0	0	47
Kansas	0	10	0	12	0	0	0
Minnesota	1	61	0	9	0	0	40
Missouri	0	7	0	7	0	0	17
Nebraska	2	83	0	27	0	0	35
North Dakota	0	11	0	23	0	0	26
South Dakota	0	132	0	23	0	0	16
South Atlantic	1	5	20	1	0	0	5
Delaware	0	75	0	7	0	0	0
District of Columbia	0	24,859	0	25	0	0	0
Florida	5	7	0	1	0	0	46
Georgia	0	20	147	2	0	0	9
Maryland	0	7	0	2	0	0	1
North Carolina	0	16	0	1	0	0	9
South Carolina	0	8	0	2	0	0	12
Virginia	0	13	0	2	0	0	12
West Virginia	2	0	0	8	0	0	17
East South Central	0	5	0	1	0	0	4
Alabama	0	13	0	2	0	0	6
Kentucky	0	14	0	3	0	0	8
Mississippi	0	10	0	1	0	0	0
Tennessee	0	1	0	2	0	0	7
West South Central	0	10	0	1	3	0	8
Arkansas	0	12	0	4	0	0	10
Louisiana	0	18	0	1	6	0	22
Oklahoma	0	6	0	2	0	0	14
Texas	0	17	0	1	2	0	11
Mountain	2	11	0	1	5	0	6
Arizona	13	14	0	1	0	0	5
Colorado	0	26	0	2	249	0	20
Idaho	262	0	0	12	0	0	13
Montana	4	29	0	29	0	0	12
Nevada	0	0	0	0	0	0	3
New Mexico	0	228	0	2	0	0	73
Utah	0	2	0	2	0	0	40
Wyoming	2	1	0	9	4	0	36
Pacific Contiguous	0	20	0	1	2	0	3
California	0	24	0	1	2	0	7
Oregon	0	444	0	3	0	0	4
Washington	0	31	0	4	0	0	1
Pacific Noncontiguous	20	1	0	19	0	0	27
Alaska	20	4	0	19	0	0	28
Hawaii	0	1	0	0	0	0	81
U.S. Total	0	2	12	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, September 2023 (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	3	4	0	0	1
Connecticut	0	0	0	9	10	0	0	1
Maine	0	0	0	9	7	0	0	6
Massachusetts	0	0	0	5	4	0	0	3
New Hampshire	0	0	0	98	21	0	0	2
Rhode Island	0	0	0	10	7	0	0	7
Vermont	0	0	0	11	12	0	0	13
Middle Atlantic	0	0	0	3	3	0	1	1
New Jersey	0	0	0	5	4	0	0	1
New York	0	0	0	5	4	0	2	1
Pennsylvania	0	0	0	12	5	0	0	1
East North Central	0	0	0	1	2	0	3	0
Illinois	0	0	0	2	2	0	0	1
Indiana	0	0	0	2	3	0	0	1
Michigan	0	0	0	4	4	0	24	1
Ohio	0	0	0	1	2	0	0	1
Wisconsin	0	0	0	3	4	0	34	1
West North Central	0	0	0	3	1	0	7	1
Iowa	0	0	0	4	2	0	0	1
Kansas	0	0	0	15	1	0	0	1
Minnesota	0	0	0	4	3	0	7	2
Missouri	0	0	0	15	2	0	0	1
Nebraska	0	0	0	23	3	0	0	2
North Dakota	0	0	0	0	3	0	79	2
South Dakota	0	0	0	23	2	0	0	5
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	8	12	0	0	6
District of Columbia	0	0	0	41	13	0	0	15
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	1	2	0	0	1
Maryland	0	0	0	5	4	0	0	1
North Carolina	0	0	0	1	1	0	0	1
South Carolina	0	0	0	2	3	0	0	0
Virginia	0	0	0	2	3	0	0	1
West Virginia	0	0	0	0	1	0	0	2
East South Central	0	0	0	1	3	0	0	0
Alabama	0	0	0	1	5	0	0	1
Kentucky	0	0	0	5	15	0	0	1
Mississippi	0	0	0	1	5	0	0	1
Tennessee	0	0	0	2	3	0	0	1
West South Central	0	0	0	0	1	0	2	0
Arkansas	0	0	0	1	5	0	0	2
Louisiana	0	0	0	8	8	0	0	1
Oklahoma	0	0	0	20	1	0	0	1
Texas	0	0	0	0	1	0	3	0
Mountain	0	5	0	1	1	0	1	1
Arizona	0	0	0	1	1	0	0	1
Colorado	0	0	0	1	1	0	0	1
Idaho	0	27	0	2	7	0	0	7
Montana	0	0	0	0	2	0	0	4
Nevada	0	5	0	1	2	0	0	1
New Mexico	0	0	0	2	1	0	0	1
Utah	0	13	0	1	2	0	50	1
Wyoming	0	0	0	0	4	0	0	2
Pacific Contiguous	0	3	0	1	1	0	1	1
California	0	3	0	1	1	0	1	1
Oregon	0	18	0	3	3	0	0	2
Washington	0	0	0	5	4	0	0	1
Pacific Noncontiguous	0	28	0	4	6	0	0	4
Alaska	0	0	0	79	34	0	0	12
Hawaii	0	28	0	3	6	0	0	2
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 September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	20	0	2	0	0	9
Connecticut	0	46	0	1	0	0	34
Maine	0	6	0	11	0	0	13
Massachusetts	0	13	0	4	0	0	23
New Hampshire	0	20	0	0	0	0	17
Rhode Island	0	127	0	7	0	0	210
Vermont	0	50	0	0	0	0	19
Middle Atlantic	16	11	0	1	21	0	2
New Jersey	0	114	0	2	0	0	0
New York	0	11	0	2	0	0	2
Pennsylvania	16	32	0	1	28	0	12
East North Central	0	10	25	1	7	0	15
Illinois	0	18	0	3	0	0	52
Indiana	0	5	0	2	12	0	35
Michigan	0	9	0	2	0	0	32
Ohio	1	21	53	1	23	0	30
Wisconsin	0	89	0	4	0	0	26
West North Central	0	11	0	5	0	0	10
Iowa	0	23	0	7	0	0	47
Kansas	0	10	0	12	0	0	0
Minnesota	1	61	0	9	0	0	40
Missouri	0	7	0	7	0	0	17
Nebraska	2	83	0	27	0	0	35
North Dakota	0	11	0	23	0	0	26
South Dakota	0	132	0	23	0	0	16
South Atlantic	1	5	20	1	0	0	5
Delaware	0	75	0	7	0	0	0
District of Columbia	0	24,859	0	25	0	0	0
Florida	5	7	0	1	0	0	46
Georgia	0	20	147	2	0	0	9
Maryland	0	7	0	2	0	0	1
North Carolina	0	16	0	1	0	0	9
South Carolina	0	8	0	2	0	0	12
Virginia	0	13	0	2	0	0	12
West Virginia	2	0	0	8	0	0	17
East South Central	0	5	0	1	0	0	4
Alabama	0	13	0	2	0	0	6
Kentucky	0	14	0	3	0	0	8
Mississippi	0	10	0	1	0	0	0
Tennessee	0	1	0	2	0	0	7
West South Central	0	10	0	1	3	0	8
Arkansas	0	12	0	4	0	0	10
Louisiana	0	18	0	1	6	0	22
Oklahoma	0	6	0	2	0	0	14
Texas	0	17	0	1	2	0	11
Mountain	2	11	0	1	5	0	6
Arizona	13	14	0	1	0	0	5
Colorado	0	26	0	2	249	0	20
Idaho	262	0	0	12	0	0	13
Montana	4	29	0	29	0	0	12
Nevada	0	0	0	0	0	0	3
New Mexico	0	228	0	2	0	0	73
Utah	0	2	0	2	0	0	40
Wyoming	2	1	0	9	4	0	36
Pacific Contiguous	0	20	0	1	2	0	3
California	0	24	0	1	2	0	7
Oregon	0	444	0	3	0	0	4
Washington	0	31	0	4	0	0	1
Pacific Noncontiguous	20	1	0	19	0	0	27
Alaska	20	4	0	19	0	0	28
Hawaii	0	1	0	0	0	0	81
U.S. Total	0	2	12	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 September 2023 (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	3	4	0	0	1
Connecticut	0	0	0	9	10	0	0	1
Maine	0	0	0	9	7	0	0	6
Massachusetts	0	0	0	5	4	0	0	3
New Hampshire	0	0	0	98	21	0	0	2
Rhode Island	0	0	0	10	7	0	0	7
Vermont	0	0	0	11	12	0	0	13
Middle Atlantic	0	0	0	3	3	0	1	1
New Jersey	0	0	0	5	4	0	0	1
New York	0	0	0	5	4	0	2	1
Pennsylvania	0	0	0	12	5	0	0	1
East North Central	0	0	0	1	2	0	3	0
Illinois	0	0	0	2	2	0	0	1
Indiana	0	0	0	2	3	0	0	1
Michigan	0	0	0	4	4	0	24	1
Ohio	0	0	0	1	2	0	0	1
Wisconsin	0	0	0	3	4	0	34	1
West North Central	0	0	0	3	1	0	7	1
Iowa	0	0	0	4	2	0	0	1
Kansas	0	0	0	15	1	0	0	1
Minnesota	0	0	0	4	3	0	7	2
Missouri	0	0	0	15	2	0	0	1
Nebraska	0	0	0	23	3	0	0	2
North Dakota	0	0	0	0	3	0	79	2
South Dakota	0	0	0	23	2	0	0	5
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	8	12	0	0	6
District of Columbia	0	0	0	41	13	0	0	15
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	1	2	0	0	1
Maryland	0	0	0	5	4	0	0	1
North Carolina	0	0	0	1	1	0	0	1
South Carolina	0	0	0	2	3	0	0	0
Virginia	0	0	0	2	3	0	0	1
West Virginia	0	0	0	0	1	0	0	2
East South Central	0	0	0	1	3	0	0	0
Alabama	0	0	0	1	5	0	0	1
Kentucky	0	0	0	5	15	0	0	1
Mississippi	0	0	0	1	5	0	0	1
Tennessee	0	0	0	2	3	0	0	1
West South Central	0	0	0	0	1	0	2	0
Arkansas	0	0	0	1	5	0	0	2
Louisiana	0	0	0	8	8	0	0	1
Oklahoma	0	0	0	20	1	0	0	1
Texas	0	0	0	0	1	0	3	0
Mountain	0	5	0	1	1	0	1	1
Arizona	0	0	0	1	1	0	0	1
Colorado	0	0	0	1	1	0	0	1
Idaho	0	27	0	2	7	0	0	7
Montana	0	0	0	0	2	0	0	4
Nevada	0	5	0	1	2	0	0	1
New Mexico	0	0	0	2	1	0	0	1
Utah	0	13	0	1	2	0	50	1
Wyoming	0	0	0	0	4	0	0	2
Pacific Contiguous	0	3	0	1	1	0	1	1
California	0	3	0	1	1	0	1	1
Oregon	0	18	0	3	3	0	0	2
Washington	0	0	0	5	4	0	0	1
Pacific Noncontiguous	0	28	0	4	6	0	0	4
Alaska	0	0	0	79	34	0	0	12
Hawaii	0	28	0	3	6	0	0	2
U.S. Total	0	3	0	0	0	0	0	0

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Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, September 2023

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	1	.	0
Connecticut	0	1	0	.	0
Maine	0	0	0	.	0
Massachusetts	0	1	1	.	0
New Hampshire	0	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	3	1	0	.	2
Middle Atlantic	0	0	0	.	0
New Jersey	0	0	1	.	0
New York	0	0	0	.	0
Pennsylvania	1	0	0	.	0
East North Central	1	1	4	.	1
Illinois	1	1	38	.	1
Indiana	4	1	21	.	2
Michigan	2	4	49	.	2
Ohio	3	1	1	.	1
Wisconsin	3	3	6	.	2
West North Central	1	2	1	.	1
Iowa	3	4	1	.	2
Kansas	3	7	0	.	3
Minnesota	4	5	1	.	3
Missouri	2	3	5	.	2
Nebraska	4	21	0	.	5
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	1	3	15	.	1
Delaware	6	6	137	.	9
District of Columbia	0	0	0	.	0
Florida	2	9	9	.	2
Georgia	44	32	0	.	33
Maryland	1	4	47	.	2
North Carolina	5	7	0	.	4
South Carolina	6	10	0	.	5
Virginia	4	4	13	.	3
West Virginia	0	0	0	.	0
East South Central	2	3	10	.	2
Alabama	0	0	0	.	0
Kentucky	2	3	0	.	2
Mississippi	5	5	40	.	4
Tennessee	0	0	0	.	0
West South Central	2	4	21	.	2
Arkansas	4	7	23	.	4
Louisiana	3	13	0	.	3
Oklahoma	6	10	0	.	5
Texas	3	6	271	.	3
Mountain	0	0	0	.	0
Arizona	0	0	0	.	0
Colorado	1	1	2	.	1
Idaho	0	2	0	.	0
Montana	1	0	0	.	1
Nevada	0	0	0	.	0
New Mexico	1	1	0	.	1
Utah	0	1	0	.	0
Wyoming	1	0	0	.	1
Pacific Contiguous	0	0	0	.	0
California	0	0	0	.	0
Oregon	1	1	1	.	1
Washington	1	2	7	.	1
Pacific Noncontiguous	0	0	0	.	0
Alaska	0	0	0	.	0
Hawaii	0	0	0	.	0
U.S. Total	0	0	1	.	0

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

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

Electric Utilities by Census Division and State, September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	22	0	97	0	0	24
Connecticut	0	27	0	0	0	0	27
Maine	0	0	0	0	0	0	0
Massachusetts	0	29	0	136	0	0	48
New Hampshire	0	0	0	0	0	0	167
Rhode Island	0	0	0	0	0	0	0
Vermont	0	50	0	0	0	0	29
Middle Atlantic	0	21	0	5	0	0	1
New Jersey	0	0	0	72	0	0	0
New York	0	21	0	5	0	0	1
Pennsylvania	0	51	0	0	0	0	0
East North Central	0	11	0	2	0	0	17
Illinois	0	49	0	11	0	0	53
Indiana	0	6	0	6	0	0	34
Michigan	0	9	0	4	0	0	33
Ohio	5	17	0	6	0	0	37
Wisconsin	0	90	0	4	0	0	28
West North Central	0	11	0	6	0	0	10
Iowa	0	23	0	7	0	0	48
Kansas	0	10	0	13	0	0	0
Minnesota	0	68	0	12	0	0	50
Missouri	0	7	0	11	0	0	17
Nebraska	2	83	0	27	0	0	35
North Dakota	0	11	0	23	0	0	26
South Dakota	0	133	0	24	0	0	16
South Atlantic	1	6	0	1	0	0	6
Delaware	0	0	0	0	0	0	0
Florida	5	6	0	1	0	0	46
Georgia	0	49	0	2	0	0	9
Maryland	0	59	0	0	0	0	0
North Carolina	0	16	0	1	0	0	9
South Carolina	0	9	0	2	0	0	12
Virginia	0	23	0	2	0	0	12
West Virginia	0	0	0	0	0	0	26
East South Central	0	5	0	1	0	0	4
Alabama	0	4	0	4	0	0	6
Kentucky	0	14	0	3	0	0	8
Mississippi	0	19	0	1	0	0	0
Tennessee	0	1	0	2	0	0	7
West South Central	0	10	0	1	0	0	8
Arkansas	0	13	0	4	0	0	11
Louisiana	0	18	0	2	0	0	0
Oklahoma	0	6	0	3	0	0	14
Texas	0	41	0	2	0	0	11
Mountain	2	12	0	1	0	0	6
Arizona	13	14	0	1	0	0	5
Colorado	0	26	0	2	0	0	21
Idaho	0	0	0	13	0	0	13
Montana	0	519	0	32	0	0	12
Nevada	0	0	0	0	0	0	0
New Mexico	0	228	0	3	0	0	73
Utah	0	2	0	2	0	0	42
Wyoming	2	1	0	14	0	0	37
Pacific Contiguous	0	33	0	2	0	0	3
California	0	26	0	1	0	0	7
Oregon	0	495	0	6	0	0	4
Washington	0	429	0	5	0	0	1
Pacific Noncontiguous	25	2	0	19	0	0	30
Alaska	25	5	0	19	0	0	30
Hawaii	0	2	0	0	0	0	0
U.S. Total	0	2	0	1	0	0	2

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

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

Electric Utilities by Census Division and State, September 2023 (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	11	8	0	0	17
Connecticut	0	0	0	0	0	0	0	13
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	18	16	0	0	37
New Hampshire	0	0	0	0	0	0	0	167
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	3	8	0	0	17
Middle Atlantic	0	0	0	18	8	0	0	2
New Jersey	0	0	0	18	18	0	0	43
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	2	3	0	32	1
Illinois	0	0	0	38	29	0	0	7
Indiana	0	0	0	3	4	0	0	1
Michigan	0	0	0	14	5	0	0	1
Ohio	0	0	0	73	104	0	0	4
Wisconsin	0	0	0	3	7	0	34	2
West North Central	0	0	0	7	2	0	5	1
Iowa	0	0	0	7	2	0	0	2
Kansas	0	0	0	51	4	0	0	2
Minnesota	0	0	0	16	6	0	0	3
Missouri	0	0	0	39	1	0	0	1
Nebraska	0	0	0	66	33	0	0	3
North Dakota	0	0	0	0	7	0	79	2
South Dakota	0	0	0	0	11	0	0	9
South Atlantic	0	0	0	0	1	0	0	0
Delaware	0	0	0	74	74	0	0	8
District of Columbia	0	0	0	416	416	0	0	416
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	4	4	0	0	1
Maryland	0	0	0	67	67	0	0	0
North Carolina	0	0	0	5	5	0	0	1
South Carolina	0	0	0	67	41	0	0	0
Virginia	0	0	0	2	7	0	0	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	6	9	0	0	1
Alabama	0	0	0	39	39	0	0	1
Kentucky	0	0	0	25	24	0	0	1
Mississippi	0	0	0	3	3	0	0	1
Tennessee	0	0	0	116	116	0	0	1
West South Central	0	0	0	6	3	0	0	1
Arkansas	0	0	0	4	4	0	0	2
Louisiana	0	0	0	30	30	0	0	1
Oklahoma	0	0	0	20	4	0	0	3
Texas	0	0	0	51	7	0	0	2
Mountain	0	17	0	4	2	0	23	1
Arizona	0	0	0	7	7	0	0	2
Colorado	0	0	0	52	2	0	0	1
Idaho	0	0	0	0	13	0	0	9
Montana	0	0	0	0	11	0	0	10
Nevada	0	0	0	5	5	0	0	0
New Mexico	0	0	0	9	2	0	0	1
Utah	0	17	0	69	17	0	50	1
Wyoming	0	0	0	0	6	0	0	2
Pacific Contiguous	0	0	0	10	4	0	0	1
California	0	0	0	10	3	0	0	3
Oregon	0	0	0	81	5	0	0	3
Washington	0	0	0	68	7	0	0	1
Pacific Noncontiguous	0	0	0	15	28	0	0	6
Alaska	0	0	0	230	68	0	0	13
Hawaii	0	0	0	15	13	0	0	2
U.S. Total	0	6	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 September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	22	0	97	0	0	24
Connecticut	0	27	0	0	0	0	27
Maine	0	0	0	0	0	0	0
Massachusetts	0	29	0	136	0	0	48
New Hampshire	0	0	0	0	0	0	167
Rhode Island	0	0	0	0	0	0	0
Vermont	0	50	0	0	0	0	29
Middle Atlantic	0	21	0	5	0	0	1
New Jersey	0	0	0	72	0	0	0
New York	0	21	0	5	0	0	1
Pennsylvania	0	51	0	0	0	0	0
East North Central	0	11	0	2	0	0	17
Illinois	0	49	0	11	0	0	53
Indiana	0	6	0	6	0	0	34
Michigan	0	9	0	4	0	0	33
Ohio	5	17	0	6	0	0	37
Wisconsin	0	90	0	4	0	0	28
West North Central	0	11	0	6	0	0	10
Iowa	0	23	0	7	0	0	48
Kansas	0	10	0	13	0	0	0
Minnesota	0	68	0	12	0	0	50
Missouri	0	7	0	11	0	0	17
Nebraska	2	83	0	27	0	0	35
North Dakota	0	11	0	23	0	0	26
South Dakota	0	133	0	24	0	0	16
South Atlantic	1	6	0	1	0	0	6
Delaware	0	0	0	0	0	0	0
Florida	5	6	0	1	0	0	46
Georgia	0	49	0	2	0	0	9
Maryland	0	59	0	0	0	0	0
North Carolina	0	16	0	1	0	0	9
South Carolina	0	9	0	2	0	0	12
Virginia	0	23	0	2	0	0	12
West Virginia	0	0	0	0	0	0	26
East South Central	0	5	0	1	0	0	4
Alabama	0	4	0	4	0	0	6
Kentucky	0	14	0	3	0	0	8
Mississippi	0	19	0	1	0	0	0
Tennessee	0	1	0	2	0	0	7
West South Central	0	10	0	1	0	0	8
Arkansas	0	13	0	4	0	0	11
Louisiana	0	18	0	2	0	0	0
Oklahoma	0	6	0	3	0	0	14
Texas	0	41	0	2	0	0	11
Mountain	2	12	0	1	0	0	6
Arizona	13	14	0	1	0	0	5
Colorado	0	26	0	2	0	0	21
Idaho	0	0	0	13	0	0	13
Montana	0	519	0	32	0	0	12
Nevada	0	0	0	0	0	0	0
New Mexico	0	228	0	3	0	0	73
Utah	0	2	0	2	0	0	42
Wyoming	2	1	0	14	0	0	37
Pacific Contiguous	0	33	0	2	0	0	3
California	0	26	0	1	0	0	7
Oregon	0	495	0	6	0	0	4
Washington	0	429	0	5	0	0	1
Pacific Noncontiguous	25	2	0	19	0	0	30
Alaska	25	5	0	19	0	0	30
Hawaii	0	2	0	0	0	0	0
U.S. Total	0	2	0	1	0	0	2

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

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

Electric Utilities by Census Division and State, Year-to-Date through September 2023 (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	11	8	0	0	17
Connecticut	0	0	0	0	0	0	0	13
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	18	16	0	0	37
New Hampshire	0	0	0	0	0	0	0	167
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	3	8	0	0	17
Middle Atlantic	0	0	0	18	8	0	0	2
New Jersey	0	0	0	18	18	0	0	43
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	2	3	0	32	1
Illinois	0	0	0	38	29	0	0	7
Indiana	0	0	0	3	4	0	0	1
Michigan	0	0	0	14	5	0	0	1
Ohio	0	0	0	73	104	0	0	4
Wisconsin	0	0	0	3	7	0	34	2
West North Central	0	0	0	7	2	0	5	1
Iowa	0	0	0	7	2	0	0	2
Kansas	0	0	0	51	4	0	0	2
Minnesota	0	0	0	16	6	0	0	3
Missouri	0	0	0	39	1	0	0	1
Nebraska	0	0	0	66	33	0	0	3
North Dakota	0	0	0	0	7	0	79	2
South Dakota	0	0	0	0	11	0	0	9
South Atlantic	0	0	0	0	1	0	0	0
Delaware	0	0	0	74	74	0	0	8
District of Columbia	0	0	0	416	416	0	0	416
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	4	4	0	0	1
Maryland	0	0	0	67	67	0	0	0
North Carolina	0	0	0	5	5	0	0	1
South Carolina	0	0	0	67	41	0	0	0
Virginia	0	0	0	2	7	0	0	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	6	9	0	0	1
Alabama	0	0	0	39	39	0	0	1
Kentucky	0	0	0	25	24	0	0	1
Mississippi	0	0	0	3	3	0	0	1
Tennessee	0	0	0	116	116	0	0	1
West South Central	0	0	0	6	3	0	0	1
Arkansas	0	0	0	4	4	0	0	2
Louisiana	0	0	0	30	30	0	0	1
Oklahoma	0	0	0	20	4	0	0	3
Texas	0	0	0	51	7	0	0	2
Mountain	0	17	0	4	2	0	23	1
Arizona	0	0	0	7	7	0	0	2
Colorado	0	0	0	52	2	0	0	1
Idaho	0	0	0	0	13	0	0	9
Montana	0	0	0	0	11	0	0	10
Nevada	0	0	0	5	5	0	0	0
New Mexico	0	0	0	9	2	0	0	1
Utah	0	17	0	69	17	0	50	1
Wyoming	0	0	0	0	6	0	0	2
Pacific Contiguous	0	0	0	10	4	0	0	1
California	0	0	0	10	3	0	0	3
Oregon	0	0	0	81	5	0	0	3
Washington	0	0	0	68	7	0	0	1
Pacific Noncontiguous	0	0	0	15	28	0	0	6
Alaska	0	0	0	230	68	0	0	13
Hawaii	0	0	0	15	13	0	0	2
U.S. Total	0	6	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, September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	23	0	2	0	0	9
Connecticut	0	49	0	1	0	0	38
Maine	0	2	0	12	0	0	13
Massachusetts	0	12	0	4	0	0	26
New Hampshire	0	26	0	0	0	0	17
Rhode Island	0	128	0	7	0	0	210
Vermont	0	0	0	0	0	0	24
Middle Atlantic	17	13	0	1	0	0	9
New Jersey	0	116	0	2	0	0	0
New York	0	13	0	2	0	0	11
Pennsylvania	17	39	0	1	0	0	12
East North Central	0	21	54	1	7	0	41
Illinois	0	19	0	4	0	0	116
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	124
Ohio	0	24	54	1	25	0	49
Wisconsin	0	0	0	0	0	0	121
West North Central	0	209	0	8	0	0	77
Iowa	0	58	0	1,272	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	377	0	14	0	0	84
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	6	10	0	2	0	0	9
Delaware	0	121	0	10	0	0	0
Florida	0	37	0	5	0	0	0
Georgia	0	219	0	7	0	0	455
Maryland	0	7	0	3	0	0	1
North Carolina	0	65	0	6	0	0	24
South Carolina	0	14	0	16	0	0	76
Virginia	0	10	0	2	0	0	50
West Virginia	9	0	0	11	0	0	32
East South Central	0	120	0	0	0	0	23
Alabama	0	120	0	0	0	0	0
Kentucky	0	0	0	0	0	0	166
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	24
West South Central	0	18	0	1	0	0	20
Arkansas	0	0	0	0	0	0	52
Louisiana	0	0	0	6	0	0	22
Oklahoma	0	0	0	0	0	0	0
Texas	0	19	0	1	0	0	0
Mountain	3	6	0	2	0	0	29
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	8	0	0	67
Idaho	0	0	0	25	0	0	39
Montana	4	7	0	24	0	0	105
Nevada	0	0	0	0	0	0	67
New Mexico	0	0	0	3	0	0	0
Utah	0	0	0	50	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	0	10	0	1	0	0	36
California	0	0	0	1	0	0	41
Oregon	0	0	0	1	0	0	74
Washington	0	10	0	7	0	0	66
Pacific Noncontiguous	55	0	0	0	0	0	0
Alaska	55	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	3	40	0	4	0	7

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

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

Independent Power Producers by Census Division and State, September 2023 (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	3	5	0	0	1
Connecticut	0	0	0	9	10	0	0	1
Maine	0	0	0	9	8	0	0	6
Massachusetts	0	0	0	5	4	0	0	3
New Hampshire	0	0	0	98	22	0	0	2
Rhode Island	0	0	0	10	7	0	0	7
Vermont	0	0	0	15	20	0	0	17
Middle Atlantic	0	0	0	4	3	0	0	1
New Jersey	0	0	0	6	5	0	0	1
New York	0	0	0	5	4	0	0	1
Pennsylvania	0	0	0	12	6	0	0	1
East North Central	0	0	0	1	2	0	26	0
Illinois	0	0	0	2	2	0	0	1
Indiana	0	0	0	3	4	0	0	1
Michigan	0	0	0	4	6	0	39	1
Ohio	0	0	0	1	1	0	0	1
Wisconsin	0	0	0	8	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	15	2	0	0	2
Minnesota	0	0	0	4	3	0	0	5
Missouri	0	0	0	17	2	0	0	1
Nebraska	0	0	0	24	3	0	0	3
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	23	2	0	0	2
South Atlantic	0	0	0	1	1	0	0	1
Delaware	0	0	0	7	14	0	0	9
District of Columbia	0	0	0	41	41	0	0	41
Florida	0	0	0	2	3	0	0	4
Georgia	0	0	0	1	1	0	0	4
Maryland	0	0	0	5	4	0	0	1
North Carolina	0	0	0	1	1	0	0	3
South Carolina	0	0	0	2	4	0	0	5
Virginia	0	0	0	2	4	0	0	2
West Virginia	0	0	0	0	1	0	0	7
East South Central	0	0	0	1	2	0	0	1
Alabama	0	0	0	1	2	0	0	0
Kentucky	0	0	0	0	4	0	0	4
Mississippi	0	0	0	1	2	0	0	1
Tennessee	0	0	0	2	3	0	0	9
West South Central	0	0	0	0	1	0	0	0
Arkansas	0	0	0	1	3	0	0	1
Louisiana	0	0	0	7	10	0	0	5
Oklahoma	0	0	0	102	1	0	0	1
Texas	0	0	0	0	1	0	0	0
Mountain	0	5	0	0	1	0	0	1
Arizona	0	0	0	1	1	0	0	0
Colorado	0	0	0	1	2	0	0	2
Idaho	0	27	0	3	8	0	0	11
Montana	0	0	0	0	2	0	0	3
Nevada	0	5	0	1	2	0	0	2
New Mexico	0	0	0	2	1	0	0	1
Utah	0	17	0	1	1	0	0	2
Wyoming	0	0	0	0	4	0	0	3
Pacific Contiguous	0	3	0	1	1	0	0	1
California	0	3	0	1	1	0	0	1
Oregon	0	18	0	3	3	0	0	2
Washington	0	0	0	4	6	0	0	3
Pacific Noncontiguous	0	28	0	4	7	0	0	4
Alaska	0	0	0	84	67	0	0	44
Hawaii	0	28	0	3	7	0	0	4
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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	23	0	2	0	0	9
Connecticut	0	49	0	1	0	0	38
Maine	0	2	0	12	0	0	13
Massachusetts	0	12	0	4	0	0	26
New Hampshire	0	26	0	0	0	0	17
Rhode Island	0	128	0	7	0	0	210
Vermont	0	0	0	0	0	0	24
Middle Atlantic	17	13	0	1	0	0	9
New Jersey	0	116	0	2	0	0	0
New York	0	13	0	2	0	0	11
Pennsylvania	17	39	0	1	0	0	12
East North Central	0	21	54	1	7	0	41
Illinois	0	19	0	4	0	0	116
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	124
Ohio	0	24	54	1	25	0	49
Wisconsin	0	0	0	0	0	0	121
West North Central	0	209	0	8	0	0	77
Iowa	0	58	0	1,272	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	377	0	14	0	0	84
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	6	10	0	2	0	0	9
Delaware	0	121	0	10	0	0	0
Florida	0	37	0	5	0	0	0
Georgia	0	219	0	7	0	0	455
Maryland	0	7	0	3	0	0	1
North Carolina	0	65	0	6	0	0	24
South Carolina	0	14	0	16	0	0	76
Virginia	0	10	0	2	0	0	50
West Virginia	9	0	0	11	0	0	32
East South Central	0	120	0	0	0	0	23
Alabama	0	120	0	0	0	0	0
Kentucky	0	0	0	0	0	0	166
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	24
West South Central	0	18	0	1	0	0	20
Arkansas	0	0	0	0	0	0	52
Louisiana	0	0	0	6	0	0	22
Oklahoma	0	0	0	0	0	0	0
Texas	0	19	0	1	0	0	0
Mountain	3	6	0	2	0	0	29
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	8	0	0	67
Idaho	0	0	0	25	0	0	39
Montana	4	7	0	24	0	0	105
Nevada	0	0	0	0	0	0	67
New Mexico	0	0	0	3	0	0	0
Utah	0	0	0	50	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	0	10	0	1	0	0	36
California	0	0	0	1	0	0	41
Oregon	0	0	0	1	0	0	74
Washington	0	10	0	7	0	0	66
Pacific Noncontiguous	55	0	0	0	0	0	0
Alaska	55	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	3	40	0	4	0	7

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

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 September 2023 (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	3	5	0	0	1
Connecticut	0	0	0	9	10	0	0	1
Maine	0	0	0	9	8	0	0	6
Massachusetts	0	0	0	5	4	0	0	3
New Hampshire	0	0	0	98	22	0	0	2
Rhode Island	0	0	0	10	7	0	0	7
Vermont	0	0	0	15	20	0	0	17
Middle Atlantic	0	0	0	4	3	0	0	1
New Jersey	0	0	0	6	5	0	0	1
New York	0	0	0	5	4	0	0	1
Pennsylvania	0	0	0	12	6	0	0	1
East North Central	0	0	0	1	2	0	26	0
Illinois	0	0	0	2	2	0	0	1
Indiana	0	0	0	3	4	0	0	1
Michigan	0	0	0	4	6	0	39	1
Ohio	0	0	0	1	1	0	0	1
Wisconsin	0	0	0	8	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	15	2	0	0	2
Minnesota	0	0	0	4	3	0	0	5
Missouri	0	0	0	17	2	0	0	1
Nebraska	0	0	0	24	3	0	0	3
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	23	2	0	0	2
South Atlantic	0	0	0	1	1	0	0	1
Delaware	0	0	0	7	14	0	0	9
District of Columbia	0	0	0	41	41	0	0	41
Florida	0	0	0	2	3	0	0	4
Georgia	0	0	0	1	1	0	0	4
Maryland	0	0	0	5	4	0	0	1
North Carolina	0	0	0	1	1	0	0	3
South Carolina	0	0	0	2	4	0	0	5
Virginia	0	0	0	2	4	0	0	2
West Virginia	0	0	0	0	1	0	0	7
East South Central	0	0	0	1	2	0	0	1
Alabama	0	0	0	1	2	0	0	0
Kentucky	0	0	0	0	4	0	0	4
Mississippi	0	0	0	1	2	0	0	1
Tennessee	0	0	0	2	3	0	0	9
West South Central	0	0	0	0	1	0	0	0
Arkansas	0	0	0	1	3	0	0	1
Louisiana	0	0	0	7	10	0	0	5
Oklahoma	0	0	0	102	1	0	0	1
Texas	0	0	0	0	1	0	0	0
Mountain	0	5	0	0	1	0	0	1
Arizona	0	0	0	1	1	0	0	0
Colorado	0	0	0	1	2	0	0	2
Idaho	0	27	0	3	8	0	0	11
Montana	0	0	0	0	2	0	0	3
Nevada	0	5	0	1	2	0	0	2
New Mexico	0	0	0	2	1	0	0	1
Utah	0	17	0	1	1	0	0	2
Wyoming	0	0	0	0	4	0	0	3
Pacific Contiguous	0	3	0	1	1	0	0	1
California	0	3	0	1	1	0	0	1
Oregon	0	18	0	3	3	0	0	2
Washington	0	0	0	4	6	0	0	3
Pacific Noncontiguous	0	28	0	4	7	0	0	4
Alaska	0	0	0	84	67	0	0	44
Hawaii	0	28	0	3	7	0	0	4
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.4.A. Relative Standard Error for Net Generation by Fuel Type:
Commercial Sector by Census Division and State, September 2023**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	68	0	9	0	0	0
Connecticut	0	231	0	15	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	95	0	13	0	0	0
New Hampshire	0	2	0	0	0	0	0
Rhode Island	0	467	0	37	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	0	56	0	9	0	0	0
New Jersey	0	501	0	17	0	0	0
New York	0	113	0	12	0	0	0
Pennsylvania	0	0	0	3	0	0	0
East North Central	0	45	0	5	0	0	416
Illinois	0	102	0	15	0	0	0
Indiana	0	0	0	0	0	0	416
Michigan	0	324	0	8	0	0	0
Ohio	0	0	0	1	0	0	0
Wisconsin	0	164	0	9	0	0	0
West North Central	0	26	0	0	0	0	0
Iowa	0	0	0	1	0	0	0
Minnesota	0	28	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	772	0	0	0	0	0
South Atlantic	0	7	0	16	0	0	0
District of Columbia	0	24,859	0	25	0	0	0
Florida	0	0	0	58	0	0	0
Georgia	0	41	0	0	0	0	0
Maryland	0	0	0	3	0	0	0
North Carolina	0	246	0	52	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	0	0	0	17	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	17	0	0	0
West South Central	0	89	0	17	0	0	0
Arkansas	0	0	0	114	0	0	0
Louisiana	0	0	0	51	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	89	0	18	0	0	0
Mountain	0	355	0	13	0	0	73
Arizona	0	551	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	29	0	0	179
Pacific Contiguous	0	39	0	4	0	0	630
California	0	3	0	4	0	0	630
Oregon	0	1,001	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	35	7	0	0	0	0	89
Alaska	35	127	0	0	0	0	89
Hawaii	0	0	0	0	0	0	0
U.S. Total	25	17	0	4	0	0	64

Displayed values of zero may 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, September 2023 (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	48	2	0	0	5
Connecticut	0	0	0	79	79	0	0	14
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	60	2	0	0	5
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	34
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	14	2	0	1	3
New Jersey	0	0	0	15	5	0	0	4
New York	0	0	0	43	2	0	3	4
Pennsylvania	0	0	0	78	4	0	0	2
East North Central	0	0	0	61	18	0	0	5
Illinois	0	0	0	352	263	0	0	14
Indiana	0	0	0	165	13	0	0	16
Michigan	0	0	0	206	12	0	0	7
Ohio	0	0	0	82	36	0	0	2
Wisconsin	0	0	0	110	35	0	0	15
West North Central	0	0	0	0	11	0	59	5
Iowa	0	0	0	0	17	0	0	3
Kansas	0	0	0	0	129	0	0	129
Minnesota	0	0	0	0	17	0	59	11
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	772
South Atlantic	0	0	0	16	2	0	0	4
Delaware	0	0	0	119	52	0	0	52
District of Columbia	0	0	0	0	0	0	0	17
Florida	0	0	0	67	1	0	0	6
Georgia	0	0	0	152	152	0	0	119
Maryland	0	0	0	47	47	0	0	4
North Carolina	0	0	0	18	18	0	0	26
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	157	1	0	0	1
East South Central	0	0	0	73	73	0	0	17
Kentucky	0	0	0	115	115	0	0	115
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	94	94	0	0	17
West South Central	0	0	0	9	31	0	0	17
Arkansas	0	0	0	0	0	0	0	63
Louisiana	0	0	0	0	0	0	0	51
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	70	111	0	0	18
Mountain	0	0	0	23	17	0	0	11
Arizona	0	0	0	44	44	0	0	7
Colorado	0	0	0	62	62	0	0	23
Idaho	0	0	0	0	27	0	0	11
Nevada	0	0	0	28	28	0	0	12
New Mexico	0	0	0	0	344	0	0	43
Utah	0	0	0	0	0	0	0	30
Pacific Contiguous	0	0	0	13	5	0	0	3
California	0	0	0	13	5	0	0	4
Oregon	0	0	0	0	41	0	0	13
Washington	0	0	0	0	63	0	0	62
Pacific Noncontiguous	0	0	0	93	2	0	0	14
Alaska	0	0	0	0	0	0	0	35
Hawaii	0	0	0	93	2	0	0	1
U.S. Total	0	0	0	7	2	0	1	2

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

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

Commercial Sector by Census Division and State, Year-to-Date through September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	68	0	9	0	0	0
Connecticut	0	231	0	15	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	95	0	13	0	0	0
New Hampshire	0	2	0	0	0	0	0
Rhode Island	0	467	0	37	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	0	56	0	9	0	0	0
New Jersey	0	501	0	17	0	0	0
New York	0	113	0	12	0	0	0
Pennsylvania	0	0	0	3	0	0	0
East North Central	0	45	0	5	0	0	416
Illinois	0	102	0	15	0	0	0
Indiana	0	0	0	0	0	0	416
Michigan	0	324	0	8	0	0	0
Ohio	0	0	0	1	0	0	0
Wisconsin	0	164	0	9	0	0	0
West North Central	0	26	0	0	0	0	0
Iowa	0	0	0	1	0	0	0
Minnesota	0	28	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	772	0	0	0	0	0
South Atlantic	0	7	0	16	0	0	0
District of Columbia	0	24,859	0	25	0	0	0
Florida	0	0	0	58	0	0	0
Georgia	0	41	0	0	0	0	0
Maryland	0	0	0	3	0	0	0
North Carolina	0	246	0	52	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	0	0	0	17	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	17	0	0	0
West South Central	0	89	0	17	0	0	0
Arkansas	0	0	0	114	0	0	0
Louisiana	0	0	0	51	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	89	0	18	0	0	0
Mountain	0	355	0	13	0	0	73
Arizona	0	551	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	29	0	0	179
Pacific Contiguous	0	39	0	4	0	0	630
California	0	3	0	4	0	0	630
Oregon	0	1,001	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	35	7	0	0	0	0	89
Alaska	35	127	0	0	0	0	89
Hawaii	0	0	0	0	0	0	0
U.S. Total	25	17	0	4	0	0	64

Displayed values of zero may 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 September 2023 (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	48	2	0	0	5
Connecticut	0	0	0	79	79	0	0	14
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	60	2	0	0	5
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	34
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	14	2	0	1	3
New Jersey	0	0	0	15	5	0	0	4
New York	0	0	0	43	2	0	3	4
Pennsylvania	0	0	0	78	4	0	0	2
East North Central	0	0	0	61	18	0	0	5
Illinois	0	0	0	352	263	0	0	14
Indiana	0	0	0	165	13	0	0	16
Michigan	0	0	0	206	12	0	0	7
Ohio	0	0	0	82	36	0	0	2
Wisconsin	0	0	0	110	35	0	0	15
West North Central	0	0	0	0	11	0	59	5
Iowa	0	0	0	0	17	0	0	3
Kansas	0	0	0	0	129	0	0	129
Minnesota	0	0	0	0	17	0	59	11
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	772
South Atlantic	0	0	0	16	2	0	0	4
Delaware	0	0	0	119	52	0	0	52
District of Columbia	0	0	0	0	0	0	0	17
Florida	0	0	0	67	1	0	0	6
Georgia	0	0	0	152	152	0	0	119
Maryland	0	0	0	47	47	0	0	4
North Carolina	0	0	0	18	18	0	0	26
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	157	1	0	0	1
East South Central	0	0	0	73	73	0	0	17
Kentucky	0	0	0	115	115	0	0	115
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	94	94	0	0	17
West South Central	0	0	0	9	31	0	0	17
Arkansas	0	0	0	0	0	0	0	63
Louisiana	0	0	0	0	0	0	0	51
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	70	111	0	0	18
Mountain	0	0	0	23	17	0	0	11
Arizona	0	0	0	44	44	0	0	7
Colorado	0	0	0	62	62	0	0	23
Idaho	0	0	0	0	27	0	0	11
Nevada	0	0	0	28	28	0	0	12
New Mexico	0	0	0	0	344	0	0	43
Utah	0	0	0	0	0	0	0	30
Pacific Contiguous	0	0	0	13	5	0	0	3
California	0	0	0	13	5	0	0	4
Oregon	0	0	0	0	41	0	0	13
Washington	0	0	0	0	63	0	0	62
Pacific Noncontiguous	0	0	0	93	2	0	0	14
Alaska	0	0	0	0	0	0	0	35
Hawaii	0	0	0	93	2	0	0	1
U.S. Total	0	0	0	7	2	0	1	2

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

**Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:
Industrial Sector by Census Division and State, September 2023**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	31	0	7	0	0	71
Connecticut	0	36	0	9	0	0	0
Maine	0	41	0	30	0	0	71
Massachusetts	0	0	0	12	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	28	0	0	0
Middle Atlantic	0	2	0	4	22	0	35
New Jersey	0	0	0	7	0	0	0
New York	0	2	0	5	0	0	35
Pennsylvania	0	7	0	5	28	0	0
East North Central	5	11	0	4	10	0	44
Illinois	0	0	0	10	0	0	0
Indiana	0	54	0	6	12	0	0
Michigan	364	0	0	14	0	0	231
Ohio	0	0	0	16	0	0	0
Wisconsin	46	955	0	13	0	0	43
West North Central	5	5	0	10	0	0	0
Iowa	2	217	0	12	0	0	0
Kansas	0	0	0	23	0	0	0
Minnesota	50	0	0	19	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	11	0	0	0	0	0	0
North Dakota	61	0	0	0	0	0	0
South Dakota	0	0	0	64	0	0	0
South Atlantic	7	19	147	5	0	0	30
Delaware	0	0	0	0	0	0	0
Florida	46	44	0	12	0	0	0
Georgia	12	22	147	17	0	0	206
Maryland	0	0	0	0	0	0	0
North Carolina	26	74	0	36	0	0	657
South Carolina	0	0	0	10	0	0	0
Virginia	0	16	0	11	0	0	0
West Virginia	0	0	0	0	0	0	30
East South Central	0	46	0	8	0	0	0
Alabama	0	50	0	15	0	0	0
Kentucky	0	0	0	6	0	0	0
Mississippi	0	0	0	21	0	0	0
Tennessee	0	0	0	6	0	0	0
West South Central	0	36	0	1	5	0	0
Arkansas	0	918	0	43	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	7	0	2	7	0	0
Mountain	27	0	0	3	5	0	0
Colorado	0	0	0	0	249	0	0
Idaho	262	0	0	29	0	0	0
Montana	284	0	0	698	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	27	0	0	5	4	0	0
Pacific Contiguous	0	33	0	2	2	0	0
California	0	187	0	2	2	0	0
Oregon	0	0	0	32	0	0	0
Washington	0	33	0	4	0	0	0
Pacific Noncontiguous	0	1	0	0	0	0	95
Alaska	0	7	0	0	0	0	0
Hawaii	0	0	0	0	0	0	95
U.S. Total	3	7	60	1	4	0	22

Displayed values of zero may 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, September 2023 (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	76	12	0	0	6
Connecticut	0	0	0	121	121	0	0	9
Maine	0	0	0	0	12	0	0	10
Massachusetts	0	0	0	64	163	0	0	15
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	28
Middle Atlantic	0	0	0	44	12	0	0	4
New Jersey	0	0	0	90	90	0	0	5
New York	0	0	0	71	31	0	0	7
Pennsylvania	0	0	0	67	12	0	0	5
East North Central	0	0	0	0	11	0	0	3
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	29	0	0	6
Michigan	0	0	0	0	17	0	0	10
Ohio	0	0	0	0	26	0	0	12
Wisconsin	0	0	0	0	13	0	0	10
West North Central	0	0	0	0	4	0	0	4
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	143	0	0	23
Minnesota	0	0	0	0	0	0	0	9
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	11
North Dakota	0	0	0	0	0	0	0	47
South Dakota	0	0	0	0	96	0	0	53
South Atlantic	0	0	0	62	4	0	0	3
Delaware	0	0	0	0	44	0	0	1
Florida	0	0	0	98	10	0	0	6
Georgia	0	0	0	0	8	0	0	8
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	9	0	0	9
South Carolina	0	0	0	81	4	0	0	4
Virginia	0	0	0	0	0	0	0	4
West Virginia	0	0	0	0	0	0	0	11
East South Central	0	0	0	0	5	0	0	4
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	28	0	0	22
Mississippi	0	0	0	0	7	0	0	9
Tennessee	0	0	0	0	0	0	0	4
West South Central	0	0	0	56	8	0	4	1
Arkansas	0	0	0	99	14	0	0	14
Louisiana	0	0	0	0	10	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	66	19	0	6	2
Mountain	0	0	0	42	5	0	0	4
Arizona	0	0	0	58	58	0	0	58
Colorado	0	0	0	0	0	0	0	5
Idaho	0	0	0	113	1	0	0	9
Montana	0	0	0	0	0	0	0	43
Nevada	0	0	0	55	55	0	0	1
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	7
Pacific Contiguous	0	0	0	15	10	0	10	2
California	0	0	0	15	13	0	10	2
Oregon	0	0	0	0	22	0	0	19
Washington	0	0	0	0	15	0	0	7
Pacific Noncontiguous	0	0	0	0	0	0	0	15
Alaska	0	0	0	0	0	0	0	3
Hawaii	0	0	0	0	0	0	0	22
U.S. Total	0	0	0	12	4	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 September 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	31	0	7	0	0	71
Connecticut	0	36	0	9	0	0	0
Maine	0	41	0	30	0	0	71
Massachusetts	0	0	0	12	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	28	0	0	0
Middle Atlantic	0	2	0	4	22	0	35
New Jersey	0	0	0	7	0	0	0
New York	0	2	0	5	0	0	35
Pennsylvania	0	7	0	5	28	0	0
East North Central	5	11	0	4	10	0	44
Illinois	0	0	0	10	0	0	0
Indiana	0	54	0	6	12	0	0
Michigan	364	0	0	14	0	0	231
Ohio	0	0	0	16	0	0	0
Wisconsin	46	955	0	13	0	0	43
West North Central	5	5	0	10	0	0	0
Iowa	2	217	0	12	0	0	0
Kansas	0	0	0	23	0	0	0
Minnesota	50	0	0	19	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	11	0	0	0	0	0	0
North Dakota	61	0	0	0	0	0	0
South Dakota	0	0	0	64	0	0	0
South Atlantic	7	19	147	5	0	0	30
Delaware	0	0	0	0	0	0	0
Florida	46	44	0	12	0	0	0
Georgia	12	22	147	17	0	0	206
Maryland	0	0	0	0	0	0	0
North Carolina	26	74	0	36	0	0	657
South Carolina	0	0	0	10	0	0	0
Virginia	0	16	0	11	0	0	0
West Virginia	0	0	0	0	0	0	30
East South Central	0	46	0	8	0	0	0
Alabama	0	50	0	15	0	0	0
Kentucky	0	0	0	6	0	0	0
Mississippi	0	0	0	21	0	0	0
Tennessee	0	0	0	6	0	0	0
West South Central	0	36	0	1	5	0	0
Arkansas	0	918	0	43	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	7	0	2	7	0	0
Mountain	27	0	0	3	5	0	0
Colorado	0	0	0	0	249	0	0
Idaho	262	0	0	29	0	0	0
Montana	284	0	0	698	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	27	0	0	5	4	0	0
Pacific Contiguous	0	33	0	2	2	0	0
California	0	187	0	2	2	0	0
Oregon	0	0	0	32	0	0	0
Washington	0	33	0	4	0	0	0
Pacific Noncontiguous	0	1	0	0	0	0	95
Alaska	0	7	0	0	0	0	0
Hawaii	0	0	0	0	0	0	95
U.S. Total	3	7	60	1	4	0	22

Displayed values of zero may 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 September 2023 (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	76	12	0	0	6
Connecticut	0	0	0	121	121	0	0	9
Maine	0	0	0	0	12	0	0	10
Massachusetts	0	0	0	64	163	0	0	15
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	28
Middle Atlantic	0	0	0	44	12	0	0	4
New Jersey	0	0	0	90	90	0	0	5
New York	0	0	0	71	31	0	0	7
Pennsylvania	0	0	0	67	12	0	0	5
East North Central	0	0	0	0	11	0	0	3
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	29	0	0	6
Michigan	0	0	0	0	17	0	0	10
Ohio	0	0	0	0	26	0	0	12
Wisconsin	0	0	0	0	13	0	0	10
West North Central	0	0	0	0	4	0	0	4
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	143	0	0	23
Minnesota	0	0	0	0	0	0	0	9
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	11
North Dakota	0	0	0	0	0	0	0	47
South Dakota	0	0	0	0	96	0	0	53
South Atlantic	0	0	0	62	4	0	0	3
Delaware	0	0	0	0	44	0	0	1
Florida	0	0	0	98	10	0	0	6
Georgia	0	0	0	0	8	0	0	8
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	9	0	0	9
South Carolina	0	0	0	81	4	0	0	4
Virginia	0	0	0	0	0	0	0	4
West Virginia	0	0	0	0	0	0	0	11
East South Central	0	0	0	0	5	0	0	4
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	28	0	0	22
Mississippi	0	0	0	0	7	0	0	9
Tennessee	0	0	0	0	0	0	0	4
West South Central	0	0	0	56	8	0	4	1
Arkansas	0	0	0	99	14	0	0	14
Louisiana	0	0	0	0	10	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	66	19	0	6	2
Mountain	0	0	0	42	5	0	0	4
Arizona	0	0	0	58	58	0	0	58
Colorado	0	0	0	0	0	0	0	5
Idaho	0	0	0	113	1	0	0	9
Montana	0	0	0	0	0	0	0	43
Nevada	0	0	0	55	55	0	0	1
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	7
Pacific Contiguous	0	0	0	15	10	0	10	2
California	0	0	0	15	13	0	10	2
Oregon	0	0	0	0	22	0	0	19
Washington	0	0	0	0	15	0	0	7
Pacific Noncontiguous	0	0	0	0	0	0	0	15
Alaska	0	0	0	0	0	0	0	3
Hawaii	0	0	0	0	0	0	0	22
U.S. Total	0	0	0	12	4	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, September 2023**

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

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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 September 2023

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	1	0	1	0	0
Connecticut	1	1	2	0	0
Maine	1	1	0	0	0
Massachusetts	1	1	3	0	1
New Hampshire	1	1	1	0	1
Rhode Island	0	0	0	0	0
Vermont	5	4	4	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	0	0	0
Indiana	2	2	1	0	1
Michigan	0	0	1	0	0
Ohio	1	1	1	0	0
Wisconsin	0	0	2	0	1
West North Central	1	1	1	0	1
Iowa	1	1	2	0	1
Kansas	5	5	4	0	3
Minnesota	1	0	3	0	1
Missouri	2	1	3	0	1
Nebraska	1	1	3	0	1
North Dakota	1	0	2	0	1
South Dakota	1	1	6	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	3	0	1
Georgia	4	3	2	0	2
Maryland	1	0	1	0	0
North Carolina	3	3	2	0	2
South Carolina	4	3	2	0	2
Virginia	2	1	2	0	1
West Virginia	1	1	0	0	0
East South Central	2	2	1	0	1
Alabama	4	4	1	0	2
Kentucky	3	2	2	0	1
Mississippi	5	6	3	0	3
Tennessee	2	2	2	0	1
West South Central	2	2	2	0	1
Arkansas	5	5	2	0	2
Louisiana	3	3	1	0	2
Oklahoma	4	4	2	0	2
Texas	2	3	3	0	2
Mountain	1	0	0	0	0
Arizona	1	0	1	0	1
Colorado	4	1	1	0	1
Idaho	0	0	2	0	1
Montana	1	1	3	0	1
Nevada	1	0	0	0	0
New Mexico	6	1	1	0	2
Utah	4	1	1	0	1
Wyoming	1	1	2	0	1
Pacific Contiguous	1	0	1	0	0
California	1	0	0	0	0
Oregon	0	0	4	0	1
Washington	0	0	4	0	1
Pacific Noncontiguous	0	0	2	0	1
Alaska	1	1	7	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.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, September 2023

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through September 2023

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	1	0	0
Connecticut	1	1	1	0	1
Maine	1	1	1	0	1
Massachusetts	1	1	1	0	1
New Hampshire	1	1	1	0	0
Rhode Island	1	2	1	0	1
Vermont	4	3	3	0	2
Middle Atlantic	0	0	0	0	0
New Jersey	1	1	1	0	1
New York	0	0	1	0	0
Pennsylvania	1	1	0	0	0
East North Central	1	0	0	0	0
Illinois	1	1	1	0	1
Indiana	2	2	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	1	1	0	0
Iowa	1	1	1	0	1
Kansas	4	3	4	0	2
Minnesota	1	0	1	0	0
Missouri	2	2	2	0	1
Nebraska	1	1	2	0	1
North Dakota	1	1	1	0	1
South Dakota	1	1	3	0	1
South Atlantic	1	1	1	0	1
Delaware	2	7	3	0	3
District of Columbia	4	0	0	0	1
Florida	1	1	3	0	1
Georgia	2	2	2	0	1
Maryland	1	0	1	0	0
North Carolina	2	2	2	0	1
South Carolina	3	2	2	0	2
Virginia	2	1	2	0	1
West Virginia	1	1	0	0	0
East South Central	1	1	1	0	1
Alabama	3	2	2	0	1
Kentucky	3	2	1	0	1
Mississippi	4	3	3	0	2
Tennessee	2	2	2	0	1
West South Central	1	2	2	0	1
Arkansas	3	3	2	0	2
Louisiana	3	2	2	0	1
Oklahoma	3	2	3	0	2
Texas	1	3	3	0	1
Mountain	1	0	0	0	0
Arizona	1	0	1	0	0
Colorado	2	1	1	0	1
Idaho	1	0	1	0	0
Montana	1	1	2	0	1
Nevada	1	0	0	0	0
New Mexico	3	1	2	0	1
Utah	2	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	2	0	0
Pacific Noncontiguous	0	1	0	0	0
Alaska	1	2	3	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, September 2023

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	2	0	0
New Hampshire	1	0	1	0	0
Rhode Island	0	0	0	0	0
Vermont	3	2	3	0	2
Middle Atlantic	0	0	0	0	0
New Jersey	0	0	0	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	1
Ohio	1	0	0	0	0
Wisconsin	1	0	2	0	1
West North Central	1	1	1	0	1
Iowa	1	1	2	0	1
Kansas	4	3	3	0	2
Minnesota	1	0	3	0	1
Missouri	1	1	2	0	1
Nebraska	1	1	3	0	1
North Dakota	1	1	2	0	1
South Dakota	1	1	5	0	1
South Atlantic	1	1	1	0	1
Delaware	1	1	2	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	2	0	1
Georgia	3	2	2	0	1
Maryland	0	0	1	0	0
North Carolina	2	2	2	0	1
South Carolina	3	2	2	0	1
Virginia	2	1	2	0	1
West Virginia	0	1	0	0	0
East South Central	1	1	1	0	1
Alabama	3	3	1	0	1
Kentucky	2	2	1	0	1
Mississippi	3	4	2	0	2
Tennessee	1	1	1	0	1
West South Central	1	1	1	0	1
Arkansas	3	4	2	0	2
Louisiana	2	2	1	0	1
Oklahoma	3	2	2	0	2
Texas	1	1	1	0	1
Mountain	1	0	1	0	0
Arizona	1	0	2	0	1
Colorado	4	1	2	0	1
Idaho	1	0	2	0	1
Montana	1	1	2	0	1
Nevada	1	0	1	0	0
New Mexico	5	1	2	0	2
Utah	4	1	1	0	1
Wyoming	1	1	1	0	1
Pacific Contiguous	1	0	1	0	0
California	1	0	1	0	0
Oregon	1	0	3	0	1
Washington	1	0	3	0	1
Pacific Noncontiguous	1	1	2	0	1
Alaska	2	3	7	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.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 September 2023

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

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

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2023

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
2023	1	01/01/2023 9:55 AM	01/01/2023 10:30 AM	0 Hours, 35 Minutes	Western Area Power Administration - Sierra Nevada Region (114 Parkshore Dr. Folsom, CA. 95630)	WECC	California: Sacramento County;	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.-System Operations	0	0
2023	1	01/05/2023 7:30 AM	01/05/2023 9:30 AM	2 Hours, 0 Minutes	Bonneville Power Administration	WECC	Washington: Lewis 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
2023	1	01/05/2023 8:19 AM	01/05/2023 8:20 AM	0 Hours, 1 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: Concordia Parish;	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	23	1631
2023	1	01/06/2023 9:30 AM	01/06/2023 11:30 AM	2 Hours, 0 Minutes	American Mun Power-Ohio, Inc	RF	Ohio: Sandusky 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
2023	1	01/07/2023 10:00 PM	01/08/2023 9:00 PM	23 Hours, 0 Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	458	185434
2023	1	01/12/2023 10:00 AM		. Hours, . Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2023	1	01/12/2023 2:00 PM	01/13/2023 3:00 AM	13 Hours, 0 Minutes	Southern Company	SERC	Alabama: Georgia;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1158	162000
2023	1	01/13/2023 12:00 AM	01/13/2023 1:00 AM	1 Hours, 0 Minutes	Lower Colorado River Authority	TRE	Texas: Fayette 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
2023	1	01/19/2023 11:00 AM	01/19/2023 1:00 PM	2 Hours, 0 Minutes	Duke Energy Progress	SERC	South Carolina: Sumter 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
2023	1	01/23/2023 7:05 AM	01/24/2023 5:17 PM	34 Hours, 12 Minutes	ISO New England	NPCC	Connecticut: Rhode Island: Massachusetts: Vermont: New Hampshire: Maine;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	41000
2023	1	01/23/2023 9:21 AM		. Hours, . Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	Unknown	Unknown
2023	1	01/23/2023 5:00 PM		. Hours, . Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	Unknown	Unknown
2023	1	01/24/2023 3:25 PM	01/26/2023 8:20 PM	52 Hours, 55 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	100731
2023	1	01/24/2023 5:10 PM	01/24/2023 5:20 PM	0 Hours, 10 Minutes	Ravenswood Generating Station	NPCC	New York: Queens 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
2023	1	01/25/2023 3:30 AM	01/25/2023 1:00 PM	9 Hours, 30 Minutes	Entergy Corp	SERC	Arkansas: Texas: Louisiana: Mississippi;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	60958
2023	1	01/25/2023 3:57 PM	01/25/2023 5:38 PM	1 Hours, 41 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
2023	1	01/30/2023 10:30 AM		. Hours, . Minutes	Onward Energy	MRO	Minnesota;	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	Unknown	Unknown

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2023

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
2023	1	01/31/2023 8:15 AM	02/06/2023 5:00 PM	152 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Anderson County, Bosque County, Collin County, Comanche County, Cooke County, Delta County, Denton County, Ellis County, Erath County, Fannin County, Freestone County, Hamilton County, Henderson County, Hill County, Hood County, Hopkins County, Hunt County, Jack County, Johnson County, Kaufman County, Lamar County, Navarro County, Palo Pinto County, Parker County, Rains County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	360000
2023	2	02/01/2023 5:00 AM	02/04/2023 10:39 PM	89 Hours, 39 Minutes	Austin Energy	TRE	Texas: Travis County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	370	173879
2023	2	02/02/2023 8:15 AM	02/02/2023 7:45 PM	11 Hours, 30 Minutes	Entergy Corp	SERC	Arkansas: Mississippi; Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	74426
2023	2	02/02/2023 11:00 AM		. Hours, . Minutes	Tenaska Pennsylvania Partners, LLC.	RF	Pennsylvania: Westmoreland 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
2023	2	02/02/2023 2:37 PM	02/02/2023 2:47 PM	0 Hours, 10 Minutes	Old Dominion Electric Coop	RF	Maryland: Cecil 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
2023	2	02/06/2023 10:00 AM	02/06/2023 10:02 AM	0 Hours, 2 Minutes	Baltimore Gas and Electric	RF	Maryland;	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
2023	2	02/07/2023 6:15 AM	02/07/2023 6:20 AM	0 Hours, 5 Minutes	Exelon Corporation / Commonwealth Edison Company (ComEd) NCR08013	SERC	Illinois: DuPage 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
2023	2	02/07/2023 8:30 AM		. Hours, . Minutes	Ravenswood Generating Station	NPCC	New York: Queens 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
2023	2	02/08/2023 1:30 PM	02/08/2023 2:00 PM	0 Hours, 30 Minutes	Hickory Run Energy, LLC	RF	Pennsylvania: Lawrence 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
2023	2	02/15/2023 2:25 PM	02/15/2023 2:30 PM	0 Hours, 5 Minutes	Seminole Electric Cooperative Inc	SERC	Florida: Clay 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
2023	2	02/18/2023 12:00 AM	02/18/2023 12:05 AM	0 Hours, 5 Minutes	Oklahoma Municipal Power Authority	MRO	Oklahoma: Kay 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
2023	2	02/21/2023 9:45 AM		. Hours, . Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Cyber event that could potentially impact electric power system adequacy or reliability--Cyber Event	0	0
2023	2	02/22/2023 4:00 PM	02/22/2023 4:01 PM	0 Hours, 1 Minutes	Otter Tail Power Co	MRO	South Dakota;	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
2023	2	02/22/2023 6:30 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	6200	623358
2023	2	02/22/2023 6:41 PM	02/25/2023 4:12 PM	69 Hours, 31 Minutes	Consumers Energy Co	RF	Michigan: Van Buren County, Kalamazoo County, St. Joseph County, Calhoun County, Branch County, Hillsdale County, Jackson County, Washtenaw County, Monroe County, Lenawee County, Ingham County, Barry County, Allegan County, Ottawa County, Eaton County, Ingham County, Shiawassee County, Clinton County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	261043
2023	2	02/23/2023 4:30 AM	02/23/2023 1:00 PM	8 Hours, 30 Minutes	WEC Energy Group (WEPCO, WPSC, UMER, WEP-MIUP)	MRO	Wisconsin: Kenosha County, Racine County, Milwaukee County, Walworth County, Jefferson County, Waukesha County; Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	143	57000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2023

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
2023	2	02/24/2023 12:29 PM	02/24/2023 12:45 PM	0 Hours, 16 Minutes	Seminole Electric Cooperative Inc	SERC	Florida: Pasco 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
2023	2	02/25/2023 12:08 AM	02/26/2023 6:08 PM	42 Hours, 0 Minutes	Los Angeles Department of Water & Power	WECC	California: Los Angeles County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	153555
2023	2	02/27/2023 1:25 PM	02/27/2023 11:59 PM	10 Hours, 34 Minutes	Consumers Energy Co	RF	Michigan: Newaygo County, Oceana County, Ionia County, Montcalm County, Jackson County, Van Buren County, Washtenaw County, Hillsdale County, Lenawee County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	76000
2023	3	03/02/2023 7:00 PM	03/04/2023 11:00 PM	52 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Montague County, Cooke County, Grayson County, Fannin County, Lamar County, Young County, Jack County, Wise County, Denton County, Collin County, Hunt County, Delta County, Hopkins County, Stephens County, Palo Pinto County, Parker County, Tarrant County, Dallas County, Rockwall County, Kaufman County, Van Zandt County, Rains County, Eastland County, Erath County, Hood County, Somervell Cou	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	470000
2023	3	03/03/2023 12:45 PM	03/03/2023 10:42 PM	9 Hours, 57 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	346	48384
2023	3	03/03/2023 1:45 PM	03/03/2023 1:50 PM	0 Hours, 5 Minutes	Exelon Corporation / Commonwealth Edison Company (ComEd) NCR08013	SERC/RF	Illinois: Cook County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility, Or suspicious device or activity at its Facility--Suspicious Activity	0	0
2023	3	03/03/2023 2:00 PM	03/04/2023 4:00 AM	14 Hours, 0 Minutes	Nashville Electric Service	SERC	Tennessee: Davidson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	115000
2023	3	03/03/2023 3:40 PM		. Hours, . Minutes	Louisville Gas & Electric Co	SERC	Kentucky: Oldham County, Jefferson County, Fayette County, Franklin County, Hardin County, Hart County, Hopkins County, Jessamine County, Muhlenberg County, Nelson County, Scott County, Shelby County, Spencer County, Washington County, Woodford County, Bullitt County, Meade County, Lyon County, LaRue County, Henry County, Grayson County, Boyle County, Christian County, Anderson County; Virginia: W	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2023	3	03/03/2023 3:40 PM		. Hours, . Minutes	LG&E KU Energy LLC	SERC	Kentucky: Oldham County, Jefferson County, Fayette County, Franklin County, Hardin County, Hart County, Hopkins County, Jessamine County, Muhlenberg County, Nelson County, Scott County, Shelby County, Spencer County, Washington County, Woodford County, Bullitt County, Meade County, Lyon County, LaRue County, Henry County, Grayson County, Boyle County, Christian County, Anderson County; Virginia: W	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	346000
2023	3	03/03/2023 5:50 PM	03/05/2023 12:01 PM	42 Hours, 11 Minutes	Detroit Edison Co	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	0	200000
2023	3	03/03/2023 7:28 PM	03/03/2023 8:54 PM	1 Hours, 26 Minutes	Duke Energy Midwest	RF	Ohio: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57186
2023	3	03/04/2023 7:05 AM	03/04/2023 7:06 AM	0 Hours, 1 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident--Transmission Interruption	800	Unknown
2023	3	03/04/2023 7:05 AM	03/04/2023 7:06 AM	0 Hours, 1 Minutes	Entergy - Power Delivery	SERC	Louisiana:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident--Transmission Interruption	965	33
2023	3	03/05/2023 8:03 PM	03/06/2023 3:38 PM	19 Hours, 35 Minutes	Southern Company	SERC	Georgia: Fulton 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
2023	3	03/07/2023 10:26 AM	03/07/2023 2:42 PM	4 Hours, 16 Minutes	Lubbock Power and Light	TRE	Texas: Lubbock County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility, Or suspicious device or activity at its Facility--Vandalism	0	0

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2023

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
2023	3	03/07/2023 11:00 AM	03/07/2023 3:45 PM	4 Hours, 45 Minutes	Southwestern Public Service	TRE	Texas: Lubbock County; New Mexico;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Vandalism	0	0
2023	3	03/09/2023 6:00 PM	03/10/2023 6:00 PM	24 Hours, 0 Minutes	WEC Energy Group (WEPCO, WPSC, UMERG, WEP-MIUP)	MRO/RF	Wisconsin: Walworth County, Waukesha County, Milwaukee County, Racine County, Ozaukee County, Kenosha County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	250	100000
2023	3	03/14/2023 8:00 AM	03/16/2023 8:20 AM	48 Hours, 20 Minutes	ISO New England	NPCC	Connecticut; Massachusetts; Vermont; Rhode Island; New Hampshire; Maine;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	83000
2023	3	03/14/2023 9:25 AM	03/15/2023 3:00 PM	29 Hours, 35 Minutes	National Grid	NPCC	New York;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2023	3	03/16/2023 10:34 AM	03/16/2023 2:26 PM	3 Hours, 52 Minutes	Lubbock Power and Light	TRE	Texas: Lubbock 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
2023	3	03/22/2023 5:45 AM	03/22/2023 5:46 AM	0 Hours, 1 Minutes	Hill Top Energy Center	RF	Pennsylvania: Greene 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	621	0
2023	3	03/25/2023 4:12 PM		. Hours, . Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Ohio: West Virginia; Virginia;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160801
2023	3	03/25/2023 4:13 PM	03/27/2023 6:30 PM	50 Hours, 17 Minutes	Detroit Edison Co	RF	Michigan;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	5800	67893
2023	3	03/26/2023 12:52 PM	03/26/2023 1:54 PM	1 Hours, 2 Minutes	Pacificorp	WECC	Washington; Oregon; Josephine County; California; Idaho; Utah; Wyoming; Montana;	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	34	Unknown
2023	3	03/28/2023 6:03 PM	03/28/2023 8:08 PM	2 Hours, 5 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
2023	3	03/30/2023 6:28 PM	03/30/2023 10:13 PM	3 Hours, 45 Minutes	Western Area Power Administration (WAPA) - Rocky Mountain Region	WECC	Colorado: Larimer 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	18	Unknown
2023	3	03/30/2023 7:21 PM		. Hours, . Minutes	Western Area Power Administration - Rocky Mountain Region	WECC	Colorado: Larimer 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	Unknown	Unknown
2023	3	03/31/2023 6:00 PM	03/31/2023 8:45 PM	2 Hours, 45 Minutes	Entergy Corp	SERC	Arkansas;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	58368
2023	3	03/31/2023 8:49 PM		. Hours, . Minutes	ComEd	SERC / RF	Illinois;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	65000
2023	3	03/31/2023 11:00 PM	04/01/2023 4:15 PM	17 Hours, 15 Minutes	Northern States Power Co	MRO	Minnesota: Ramsey County, Hennepin County, Dakota County, Washington County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	80000
2023	4	04/01/2023 2:00 PM	04/03/2023 10:47 AM	44 Hours, 47 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF/SERC	Ohio: West Virginia; Virginia;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	118000
2023	4	04/03/2023 12:06 PM	04/03/2023 12:54 PM	0 Hours, 48 Minutes	Southern Company	SERC	Alabama: Walker 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.-Actual Physical Attack/Vandalism	0	0
2023	4	04/08/2023 4:30 AM	04/08/2023 5:05 AM	0 Hours, 35 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
2023	4	04/14/2023 5:30 AM		. Hours, . Minutes	FL Solar 5, LLC	SERC	Florida: Orange County;	Cyber event that could potentially impact electric power system adequacy or reliability.-Cyber Event	0	0
2023	4	04/19/2023 11:13 PM	04/20/2023 5:24 PM	18 Hours, 11 Minutes	American Electric Power - Texas	TRE	Texas: Calhoun 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	Unknown	Unknown

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2023

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
2023	4	04/27/2023 11:00 AM	04/27/2023 11:14 AM	0 Hours, 14 Minutes	Pedernales Electric Cooperative, Inc.	TRE	Texas: Blanco County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Vandalism	0	0
2023	4	04/29/2023 12:00 AM	04/29/2023 8:00 PM	20 Hours, 0 Minutes	American Electric Power - Texas	TRE	Texas: Hidalgo County, Cameron County, Willacy County, Starr County;	Loss of electric service to more than 50,000 customers for 1 hour or more--Severe Weather	Unknown	168419
2023	5	05/01/2023 5:16 AM	05/01/2023 9:31 AM	4 Hours, 15 Minutes	ISO New England	NPCC	Connecticut; Massachusetts; Rhode Island; Maine; New Hampshire; Vermont;	Loss of electric service to more than 50,000 customers for 1 hour or more--Severe Weather	Unknown	54000
2023	5	05/12/2023 11:43 AM	05/12/2023 12:00 PM	0 Hours, 17 Minutes	New York State Electric & Gas	NPCC	New York: Broome 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	0	0
2023	5	05/21/2023 3:30 PM	05/21/2023 3:40 PM	0 Hours, 10 Minutes	Puget Sound Energy	WECC	Washington: Whatcom 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
2023	5	05/24/2023 9:16 AM		. Hours, . Minutes	ITC Holdings	MRO	Iowa: Minnesota;	Complete operational failure or shut down of the transmission and/or distribution electrical system-System Operations	2200	Unknown
2023	5	05/30/2023 8:00 AM	05/30/2023 8:01 AM	0 Hours, 1 Minutes	ISO New England	NPCC	Massachusetts: Hampden County[13];	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.-Actual Physical Attack/Vandalism	0	0
2023	6	06/25/2023 4:00 AM		. Hours, . Minutes	WEC Energy Group (WEPCO, WPSC, U MERC, WEP-MIUP)	MRO/RF	Wisconsin, Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	175	70000
2023	6	06/25/2023 6:45 AM		. Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	120000
2023	6	06/25/2023 5:30 PM	06/26/2023 3:31 PM	22 Hours, 1 Minutes	Southern Company	SERC	Georgia, Alabama	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	Unknown
2023	6	06/25/2023 7:00 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	Unknown
2023	6	06/25/2023 7:30 PM	06/26/2023 5:45 PM	22 Hours, 15 Minutes	Entergy Corp	SERC	Arkansas, Mississippi	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	64732
2023	6	06/29/2023 3:42 PM		. Hours, . Minutes	Duke Energy Midwest	RF	Indiana	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	140000
2023	7	07/06/2023 1:38 PM	07/06/2023 3:04 PM	1 Hours, 26 Minutes	Omaha Public Power District	MRO	Nebraska: Sarpy 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
2023	7	07/14/2023 3:00 PM		. Hours, . Minutes	Eergy	SERC	Missouri: Kansas;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	163156
2023	7	07/18/2023 1:30 PM	07/18/2023 2:30 PM	1 Hours, 0 Minutes	Wabash Valley Power	SERC	Missouri;	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
2023	7	07/18/2023 5:50 PM	07/25/2023 2:00 PM	164 Hours, 10 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-- Weather or natural disaster	1200	216000
2023	7	07/20/2023 3:30 PM	07/21/2023 12:00 PM	20 Hours, 30 Minutes	DTE Energy	RF	Michigan;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	90354
2023	7	07/20/2023 4:30 PM	07/22/2023 12:17 PM	43 Hours, 47 Minutes	Southern Company	SERC	Georgia;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	640	35257
2023	7	07/25/2023 6:52 PM	07/25/2023 7:00 PM	0 Hours, 8 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County; Michigan: Oakland County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-- Unknown - Failure at high voltage substation or switchyard	820	Unknown
2023	7	07/26/2023 2:51 PM	07/26/2023 5:23 PM	2 Hours, 32 Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Macomb County, Washtenaw County, Livingston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	246000
2023	7	07/28/2023 12:16 PM	07/28/2023 12:17 PM	0 Hours, 1 Minutes	Seattle City Light	WECC	Washington: King County;	Physical attack that could potentially impact electric power system adequacy or reliability, or vandalism which targets components of any security systems.-- Physical attack - Vandalism - Other	0	0

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2023

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
2023	7	07/28/2023 6:00 PM	07/30/2023 7:45 AM	37 Hours, 45 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	West Virginia: Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	52098
2023	7	07/28/2023 9:00 PM		Hours, . Minutes	Exelon Corporation/BGE	RF	Maryland: Harford County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	61000
2023	7	07/28/2023 9:00 PM	07/30/2023 10:00 AM	37 Hours, 0 Minutes	ComEd	MRO/RF	Illinois: Winnebago County, Cook County, Will County, DeKalb County, Kendall County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	122921
2023	7	07/28/2023 10:58 PM		Hours, . Minutes	WEC Energy Group (WEPCO, WPSC, UMERC, WEP-MIUP)	MRO/RF	Wisconsin: Jefferson County, Waukesha County, Milwaukee County, Sheboygan County, Washington County, Ozaukee County, Walworth County, Kenosha County, Racine County, Michigan;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	213	85000
2023	7	07/29/2023 4:00 PM	07/29/2023 4:01 PM	0 Hours, 1 Minutes	FirstLight Power	NPCC	Massachusetts: Franklin County(13);	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. 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 cent	0	0
2023	7	07/29/2023 4:00 PM	08/01/2023 7:00 AM	63 Hours, 0 Minutes	Baltimore Gas and Electric	RF	Maryland:	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	53630
2023	7	07/29/2023 4:25 PM	07/29/2023 4:28 PM	0 Hours, 3 Minutes	Potomac Electric Power Company	RF	Maryland: Montgomery County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	54158
2023	7	07/30/2023 8:30 PM		Hours, . Minutes	Energy	SERC,MR O	Missouri: Kansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	72173
2023	8			Hours, . Minutes	Energy	SERC,MR O	Missouri: Kansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	72173
2023	8			Hours, . Minutes	Energy	SERC	Missouri: Kansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	163156
2023	8			Hours, . Minutes	Exelon Corporation/BGE	RF	Maryland: Harford County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	61000
2023	8			Hours, . Minutes	WEC Energy Group (WEPCO, WPSC, UMERC, WEP-MIUP)	MRO/RF	Wisconsin: Jefferson County, Waukesha County, Milwaukee County, Sheboygan County, Washington County, Ozaukee County, Walworth County, Kenosha County, Racine County, Michigan;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	213	85000
2023	8		07/06/2023 3:04 PM	Hours, . Minutes	Omaha Public Power District	MRO	Nebraska: Sarpy 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
2023	8		07/18/2023 2:30 PM	Hours, . Minutes	Wabash Valley Power	SERC	Missouri:	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
2023	8		07/21/2023 12:00 PM	Hours, . Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	90354
2023	8		07/22/2023 12:17 PM	Hours, . Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	640	35257
2023	8		07/25/2023 2:00 PM	Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-- Weather or natural disaster	1200	216000
2023	8		07/25/2023 7:00 PM	Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-- Unknown - Failure at high voltage substation or switchyard	820	Unknown
2023	8		07/26/2023 5:23 PM	Hours, . Minutes	Detroit Edison Co	RF	Michigan: Oakland County, Wayne County, Macomb County, Washtenaw County, Livingston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	246000
2023	8		07/28/2023 12:17 PM	Hours, . Minutes	Seattle City Light	WECC	Washington: King County;	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.-- Physical attack - Vandalism - Other	0	0

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2023

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
2023	8		07/29/2023 4:01 PM	. Hours, . Minutes	FirstLight Power	NPCC	Massachusetts: Franklin County[13];	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. 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 cent	0	0
2023	8		07/29/2023 4:28 PM	. Hours, . Minutes	Potomac Electric Power Company	RF	Maryland: Montgomery County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	54158
2023	8		07/30/2023 7:45 AM	. Hours, . Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	West Virginia: Virginia;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	52098
2023	8		07/30/2023 10:00 AM	. Hours, . Minutes	ComEd	MRO/RF	Illinois: Winnebago County, Cook County, Will County, DeKalb County, Kendall County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	122921
2023	8		08/01/2023 7:00 AM	. Hours, . Minutes	Baltimore Gas and Electric	RF	Maryland;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	53630
2023	9	09/07/2023 1:00 PM	09/07/2023 1:15 PM	0 Hours, 15 Minutes	Lower Colorado River Authority	TRE	Texas: Fayette 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
2023	9	09/08/2023 3:15 PM	09/09/2023 10:05 PM	30 Hours, 50 Minutes	ISO New England	NPCC	Connecticut: Massachusetts; Maine: Rhode Island; Vermont; New Hampshire;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	114000
2023	9	09/08/2023 11:44 PM	09/10/2023 7:00 PM	43 Hours, 16 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Tarrant County, Dallas County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	190000
2023	9	09/09/2023 10:31 AM	09/09/2023 10:51 AM	0 Hours, 20 Minutes	Ravenswood Generating Station	NPCC	New York: Queens 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
2023	9	09/16/2023 10:35 AM	09/17/2023 1:00 AM	14 Hours, 25 Minutes	ISO New England	NPCC	Connecticut: Massachusetts; Maine: Rhode Island; Vermont; New Hampshire;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	75000
2023	9	09/18/2023 8:53 AM	09/18/2023 10:26 AM	1 Hours, 33 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
2023	9	09/24/2023 11:44 PM	09/26/2023 8:45 PM	45 Hours, 1 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County, McLennan County, Angelina County, Bell County, Williamson County, Smith County;	Loss of electric service to more than 50,000 customers for 1 hour or more-- Weather or natural disaster	Unknown	130000
2023	9	09/29/2023 10:16 PM	09/29/2023 10:18 PM	0 Hours, 2 Minutes	Pacific Gas & Electric Co	WECC	California: Butte 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-- Weather or natural disaster	18	9082

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, 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/WECC	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
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

Table B.2 Major Disturbances and Unusual Occurrences, 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	02/18/2022 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	68448
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
2022	4	04/10/2022 3:41 PM	04/10/2022 3:50 PM	0 Hours, 9 Minutes	Entergy - Transmission Operations Engineering	SERC	Arkansas: Pulaski County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	5	Unknown
2022	4	04/10/2022 3:41 PM	04/10/2022 3:50 PM	0 Hours, 9 Minutes	Entergy Arkansas Inc	SERC	Arkansas: Pulaski County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	5	Unknown

Table B.2 Major Disturbances and Unusual Occurrences, 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	04/11/2022 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
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

Table B.2 Major Disturbances and Unusual Occurrences, 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	05/12/2022 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: Met-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	Energy	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
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 policy-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 policy-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

Table B.2 Major Disturbances and Unusual Occurrences, 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	06/14/2022 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, UMERG, 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
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

Table B.2 Major Disturbances and Unusual Occurrences, 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	07/25/2022 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	91284
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	El 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
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, Rockwell 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

Table B.2 Major Disturbances and Unusual Occurrences, 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	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
2022	11	11/02/2022 3:11 PM	11/02/2022 3:25 PM	0 Hours, 14 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	11	11/04/2022 8:05 PM	11/07/2022 9:00 AM	60 Hours, 55 Minutes	Puget Sound Energy	WECC	Washington: Island County, King County, Kittitas County, Thurston County, Kitsap County, Pierce County, Skagit County, Whatcom County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	214000
2022	11	11/05/2022 1:00 PM	11/08/2022 7:00 AM	66 Hours, 0 Minutes	Consumers Energy Co	RF	Michigan: Kalamazoo County, Kent County, Calhoun County, Genesee County, Ottawa County, Muskegon County, Eaton County, Saginaw County, Van Buren County, Hillsdale County, Shiawassee County, Jackson County, Lenawee County, Branch County, Montcalm County, Monroe County, Manistee County, Roscommon County, Clinton County, Ingham County, Gladwin County, Arenac County, Ogemaw County, Iosco County, Alcon	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	158450
2022	11	11/05/2022 7:00 PM		. Hours, . Minutes	WEC Energy Group (WEPCO, WPSC, U MERC, WEP-MIUP)	MRO/RF	Wisconsin;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2022	11	11/05/2022 7:57 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Oakland County, Wayne County, Monroe County, Lapeer County, St. Clair County, Washtenaw County, Macomb County, Tuscola County, Sanilac County, Huron County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	53000

Table B.2 Major Disturbances and Unusual Occurrences, 2022

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2022	11	11/10/2022 6:00 AM	11/11/2022 8:47 AM	26 Hours, 47 Minutes	Duke Energy Florida	SERC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160000
2022	11	11/23/2022 7:03 AM	11/23/2022 8:57 AM	1 Hours, 54 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	11	11/23/2022 9:30 AM		. Hours, . Minutes	Exelon Corporation	RF	Maryland: Delaware; New Jersey; Pennsylvania; Illinois; District of Columbia;	Cyber event that could potentially impact electric power system adequacy or reliability. Cyber Event	Unknown	Unknown
2022	11	11/27/2022 5:28 PM	11/27/2022 11:58 PM	6 Hours, 30 Minutes	Exelon/Potomac Electric Power Company (Pepco)	RF	Maryland: Montgomery County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Interruption	190	87500
2022	11	11/30/2022 3:35 AM	11/30/2022 9:10 AM	5 Hours, 35 Minutes	Southern Company	SERC	Alabama: Mississipp; Georgia;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	386	54110
2022	11	11/30/2022 6:45 PM	12/02/2022 4:00 AM	33 Hours, 15 Minutes	ISO New England	NPCC	Maine: Massachusetts; Connecticut; Rhode Island; Vermont; New Hampshire;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	113	113000
2022	12	12/05/2022 6:20 PM	12/05/2022 6:55 PM	0 Hours, 35 Minutes	Constellation Energy Generation, LLC	RF	Pennsylvania: York County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/06/2022 12:00 AM	12/06/2022 12:01 AM	0 Hours, 1 Minutes	Southern Company	SERC	Georgia: Bartow County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/06/2022 12:00 AM	12/06/2022 12:01 AM	0 Hours, 1 Minutes	Southern Company	SERC	Georgia: Heard County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/06/2022 8:15 AM	12/06/2022 12:15 PM	4 Hours, 0 Minutes	KeyCon Operating, LLC	RF	Pennsylvania;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	1883	Unknown
2022	12	12/06/2022 8:26 AM	12/06/2022 8:30 AM	0 Hours, 4 Minutes	LG&E KU Energy LLC	SERC	Kentucky: Jefferson County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Vandalism	0	0
2022	12	12/06/2022 9:25 AM		. Hours, . Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/06/2022 12:45 PM		. Hours, . Minutes	Lightstone Generation LLC	RF	Ohio;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	2600	Unknown
2022	12	12/07/2022 1:35 PM	12/07/2022 1:40 PM	0 Hours, 5 Minutes	Exelon Corporation / Commonwealth Edison Company (ComEd) NCR08013	SERC/RF	Illinois: Cook County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/07/2022 4:42 PM	12/07/2022 9:00 PM	4 Hours, 18 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/08/2022 12:36 PM		. Hours, . Minutes	Wabash Valley Power	RF	Indiana: Vigo County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2022

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2022	12	12/10/2022 11:00 AM	12/12/2022 6:00 AM	43 Hours, 0 Minutes	Associated Electric Cooperative Inc	SERC	Missouri: Greene County; Dunklin County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/14/2022 12:52 PM		. Hours, . Minutes	Montana-Dakota Utilities Co	WECC	Montana: Richland County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	Unknown	Unknown
2022	12	12/16/2022 11:30 PM	12/18/2022 11:21 PM	47 Hours, 51 Minutes	ISO New England	NPCC	Massachusetts; Vermont; New Hampshire; Maine;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	36600
2022	12	12/17/2022 7:45 PM	12/17/2022 7:46 PM	0 Hours, 1 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Kaufman County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/22/2022 9:04 AM	12/25/2022 12:00 AM	62 Hours, 56 Minutes	Tennessee Valley Authority	SERC	Tennessee; Alabama; Mississippi; Kentucky;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Transmission Interruption	3200	Unknown
2022	12	12/23/2022 3:03 AM	12/23/2022 12:30 PM	9 Hours, 27 Minutes	Southern Company	SERC	Alabama; Georgia; Mississippi;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	236	33010
2022	12	12/23/2022 5:20 AM		. Hours, . Minutes	ISO New England	NPCC	Connecticut; Rhode Island; Massachusetts; Vermont; New Hampshire; Maine;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	500000
2022	12	12/23/2022 6:04 AM	12/23/2022 6:40 AM	0 Hours, 36 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/23/2022 7:30 AM	12/23/2022 10:13 PM	14 Hours, 43 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	108900
2022	12	12/23/2022 8:31 AM		. Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	Unknown	Unknown
2022	12	12/23/2022 9:45 AM	12/23/2022 5:00 PM	7 Hours, 15 Minutes	Duke Energy Progress	SERC	North Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	66519
2022	12	12/23/2022 2:30 PM		. Hours, . Minutes	National Grid	NPCC	New York;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	57000
2022	12	12/24/2022 4:45 AM	12/24/2022 3:45 PM	11 Hours, 0 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	1000	295000
2022	12	12/24/2022 6:15 AM	12/25/2022 9:00 AM	26 Hours, 45 Minutes	Dominion Energy South Carolina	SERC	South Carolina;	System-wide voltage reductions of 3 percent or more.-Severe Weather	4615	17600
2022	12	12/24/2022 6:35 AM	12/24/2022 4:10 PM	9 Hours, 35 Minutes	Duke Energy Progress	SERC	North Carolina;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	960	130000
2022	12	12/24/2022 9:00 AM	12/24/2022 11:15 AM	2 Hours, 15 Minutes	Southern Company	SERC	Alabama; Georgia; Mississippi;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	160	22436
2022	12	12/26/2022 8:30 AM	12/28/2022 9:00 PM	60 Hours, 30 Minutes	Puget Sound Energy	WECC	Washington: King County; Island County; Kittitas County; Kitsap County; Pierce County; Skagit County; Thurston County; Whatcom County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	230000
2022	12	12/27/2022 7:07 AM	12/29/2022 11:10 AM	52 Hours, 3 Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	Unknown	Unknown
2022	12	12/27/2022 10:12 AM		. Hours, . Minutes	Portland General Electric Co	WECC	Oregon: Clackamas County; Columbia County; Marion County; Multnomah County; Polk County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	83060
2022	12	12/27/2022 8:40 PM	12/27/2022 8:41 PM	0 Hours, 1 Minutes	Puget Sound Energy	WECC	Washington: King County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	11	11600
2022	12	12/29/2022 4:00 PM		. Hours, . Minutes	Lightstone Generation LLC	RF	Ohio;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Vandalism	2600	Unknown
2022	12	12/31/2022 7:00 PM	01/01/2023 6:00 AM	11 Hours, 0 Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	161000
2022	12	12/31/2022 8:00 PM	01/03/2023 12:00 AM	52 Hours, 0 Minutes	NVENERGY	WECC	Nevada;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	3500

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

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

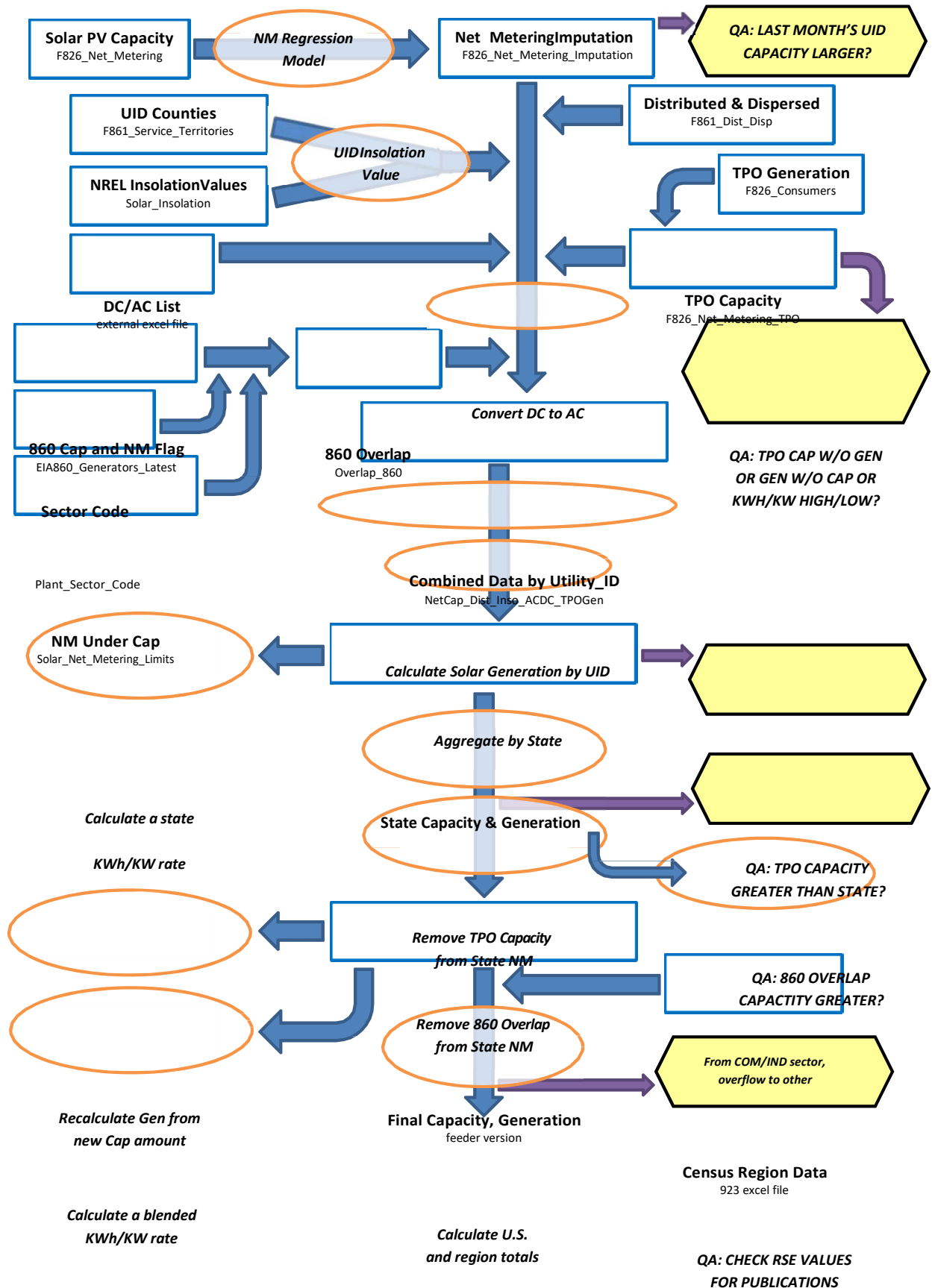
TMY3 (1991-2005) Weather Stations by MSA

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, September 2023

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	19.91	5.83	--	1.03
Connecticut	--	5.83	--	1.03
Maine	19.91	5.83	--	1.04
Massachusetts	--	--	--	1.03
New Hampshire	--	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	14.24	6.20	--	1.04
New Jersey	--	--	--	1.03
New York	--	6.28	--	1.03
Pennsylvania	14.24	5.83	--	1.04
East North Central	20.27	5.82	27.37	1.05
Illinois	17.66	5.95	--	1.04
Indiana	22.44	5.77	--	1.06
Michigan	18.82	5.98	27.39	1.05
Ohio	25.03	5.78	--	1.06
Wisconsin	17.96	--	26.40	1.03
West North Central	16.58	5.79	--	1.06
Iowa	17.80	5.72	--	1.10
Kansas	17.55	5.75	--	1.01
Minnesota	17.73	--	--	1.10
Missouri	17.73	5.80	--	1.03
Nebraska	17.15	--	--	1.06
North Dakota	13.07	5.85	--	1.01
South Dakota	16.51	6.00	--	1.11
South Atlantic	23.74	5.84	28.80	1.02
Delaware	26.08	5.77	--	1.03
District of Columbia	--	--	--	--
Florida	23.49	5.77	28.80	1.02
Georgia	20.39	6.03	--	1.03
Maryland	24.81	5.79	--	1.04
North Carolina	25.02	5.80	--	1.03
South Carolina	24.68	5.88	--	1.03
Virginia	23.42	6.04	--	1.02
West Virginia	25.08	5.83	--	1.08
East South Central	20.55	5.81	--	1.02
Alabama	18.35	--	--	1.03
Kentucky	22.10	5.82	--	1.03
Mississippi	14.43	5.82	--	1.02
Tennessee	22.10	5.76	--	1.01
West South Central	16.53	5.84	--	1.02
Arkansas	17.68	5.86	--	1.03
Louisiana	17.98	--	--	1.03
Oklahoma	17.28	--	--	1.03
Texas	16.11	5.82	--	1.02
Mountain	18.30	5.81	--	1.04
Arizona	17.99	--	--	1.03
Colorado	18.29	--	--	1.08
Idaho	--	--	--	1.00
Montana	17.17	5.92	--	1.07
Nevada	20.00	5.83	--	1.04
New Mexico	18.37	--	--	1.03
Utah	21.91	5.80	--	1.04
Wyoming	17.51	5.78	--	1.05
Pacific Contiguous	17.93	6.00	--	1.04
California	21.94	--	--	1.03
Oregon	--	--	--	1.05
Washington	17.14	6.00	--	1.09
Pacific Noncontiguous	14.81	6.20	--	1.00
Alaska	14.81	5.60	--	1.00
Hawaii	--	6.20	--	--
U.S. Total	18.89	6.13	27.66	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, 2020 through 2022

Item	Mean Absolute Value of Percent Change Total (All Sectors)		
	2020	2021	2022
Net Generation			
Coal	0.12%	0.17%	0.32%
Petroleum Liquids	2.67%	5.42%	4.20%
Petroleum Coke	3.61%	2.93%	5.15%
Natural Gas	1.23%	0.28%	0.42%
Other Gases	6.01%	2.35%	3.63%
Hydroelectric	3.35%	3.89%	3.74%
Nuclear	0.01%	0.22%	0.00%
Other	1.12%	0.89%	0.83%
Total	0.46%	0.33%	0.37%
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.23%	0.17%	0.62%
Petroleum Liquids	2.39%	8.15%	4.38%
Petroleum Coke	8.51%	5.23%	6.99%
Natural Gas	1.19%	0.71%	0.47%
Fuel Stocks for Electric Power Sector			
Coal	0.56%	2.40%	0.58%
Petroleum Liquids	1.88%	5.16%	1.23%
Petroleum Coke	2.13%	0.48%	1.32%
Sales of Electricity to Ultimate Customers			
Residential	0.19%	0.40%	0.83%
Commercial	0.92%	0.29%	1.30%
Industrial	4.30%	1.39%	1.28%
Transportation	1.17%	0.92%	0.14%
Total	1.49%	0.31%	0.47%
Revenue			
Residential	0.13%	0.88%	1.37%
Commercial	0.38%	0.23%	0.29%
Industrial	4.43%	0.36%	0.54%
Transportation	0.90%	1.00%	0.91%
Total	0.77%	0.46%	0.64%
Average Price of Electricity to Ultimate Customers			
Residential	0.30%	0.47%	0.55%
Commercial	0.55%	0.50%	1.10%
Industrial	0.19%	1.17%	1.65%
Transportation	0.47%	0.61%	0.85%
Total	0.70%	0.77%	1.11%
Receipt of Fossil Fuels			
Coal	1.01%	1.20%	1.24%
Petroleum Liquids	5.52%	15.02%	11.38%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	8.15%	8.13%	7.88%
Cost of Fossil Fuels			
Coal	0.26%	0.21%	0.29%
Petroleum Liquids	1.32%	1.81%	0.50%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	0.38%	3.38%	0.35%

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, 2020 through 2022

Item	2020			2021			2022		
	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	773,805	773,393	-0.05%	898,679	897,999	-0.08%	828,993	831,512	0.30%
Petroleum Liquids	9,877	9,662	-2.18%	11,315	11,663	3.07%	16,274	15,805	-2.88%
Petroleum Coke	7,618	7,679	0.80%	7,467	7,511	0.58%	7,109	7,126	0.24%
Natural Gas	1,616,748	1,626,790	0.62%	1,575,230	1,579,190	0.25%	1,689,465	1,687,067	-0.14%
Other Gases	11,182	11,818	5.69%	11,283	11,397	1.01%	11,884	11,722	-1.36%
Hydroelectric	285,790	279,953	-2.04%	255,113	246,473	-3.39%	255,966	248,761	-2.81%
Nuclear	789,919	789,879	-0.01%	778,152	779,645	0.19%	771,537	771,537	0.00%
Other	514,146	510,593	-0.69%	578,302	575,822	-0.43%	661,906	657,142	-0.72%
Total	4,009,085	4,009,767	0.02%	4,115,540	4,109,699	-0.14%	4,243,136	4,230,672	-0.29%
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	436,076	435,351	-0.17%	500,592	500,367	-0.04%	468,779	471,576	0.60%
Petroleum Liquids (1,000 barrels)	18,191	18,008	-1.00%	20,676	21,633	4.63%	29,207	28,760	-1.53%
Petroleum Coke (1,000 tons)	2,866	3,077	7.35%	2,940	3,070	4.41%	2,887	2,985	3.40%
Natural Gas (1,000 Mcf)	11,887,895	11,928,104	0.34%	11,550,818	11,502,569	-0.42%	12,384,883	12,384,098	-0.01%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	132,723	131,431	-0.97%	94,654	91,884	-2.93%	89,963	88,861	-1.23%
Petroleum Liquids (1,000 barrels)	25,547	26,063	2.02%	23,446	26,002	10.90%	21,650	22,812	5.36%
Petroleum Coke (1,000 tons)	298	298	-0.10%	302	302	0.00%	304	318	4.84%
Retail Sales (Million kWh)									
Residential	1,461,958	1,464,605	0.18%	1,476,569	1,470,487	-0.41%	1,521,886	1,509,233	-0.83%
Commercial	1,275,718	1,287,440	0.92%	1,324,782	1,328,439	0.28%	1,373,031	1,390,873	1.30%
Industrial	919,533	959,082	4.30%	986,797	1,000,613	1.40%	1,007,533	1,020,464	1.28%
Transportation	6,532	6,548	0.24%	6,392	6,334	-0.90%	6,602	6,599	-0.05%
Total	3,663,741	3,717,674	1.47%	3,794,539	3,805,874	0.30%	3,909,053	3,927,169	0.46%
Revenue (Million Dollars)									
Residential	192,934	192,663	-0.14%	202,632	200,834	-0.89%	230,174	226,990	-1.38%
Commercial	135,860	136,372	0.38%	149,328	149,008	-0.21%	172,257	172,600	0.20%
Industrial	61,246	63,956	4.42%	71,682	71,835	0.21%	85,171	84,895	-0.32%
Transportation	646	648	0.30%	653	646	-0.98%	770	765	-0.61%
Total	390,686	393,639	0.76%	424,295	422,323	-0.46%	488,371	485,249	-0.64%
Average Retail Price (Cents/kWh)									
Residential	13.20	13.15	-0.32%	13.72	13.66	-0.48%	15.12	15.04	-0.56%
Commercial	10.65	10.59	-0.54%	11.27	11.22	-0.49%	12.55	12.41	-1.09%
Industrial	6.66	6.67	0.12%	7.26	7.18	-1.17%	8.45	8.32	-1.59%
Transportation	9.90	9.90	0.06%	10.21	10.20	-0.09%	11.66	11.59	-0.56%
Total	10.66	10.59	-0.71%	11.18	11.10	-0.76%	12.49	12.36	-1.10%
Receipt of Fossil Fuels									
Coal (1,000 tons)	435,213	439,636	1.02%	456,033	461,477	1.19%	463,950	469,718	1.24%
Petroleum Liquids (1,000 barrels)	12,178	12,864	5.63%	14,198	16,302	14.82%	17,206	19,362	12.53%
Petroleum Coke (1,000 tons)	2,396	2,396	0.00%	2,296	2,286	0.00%	2,286	2,286	0.00%
Natural Gas (1,000 Mcf)	11,067,675	11,981,552	8.26%	10,688,997	11,578,254	8.32%	11,497,833	12,436,074	8.16%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	1.92	1.92	-0.24%	1.98	1.98	-0.26%	2.37	2.36	-0.32%
Petroleum Liquids (1,000 barrels)	9.63	9.76	1.29%	14.50	14.71	1.42%	23.67	23.60	-0.32%
Petroleum Coke (1,000 tons)	1.70	1.70	0.00%	3.16	3.16	0.00%	4.35	4.35	0.00%
Natural Gas (1,000 Mcf)	2.39	2.40	0.21%	4.97	5.19	4.49%	7.23	7.22	-0.05%

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 2022 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.