Independent Statistics and Analysis
U.S. Energy Information Administration

Electric Power Monthly

September 2023

The U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy (DOE), prepared this report. By law, our data, analyses, and forecasts are independent of approval by any other officer or employee of the U.S. Government. The views in this report do not represent those of DOE or any other federal agencies.

Contacts

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

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

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

Email address: infoelectric@eia.gov

Subject specialists:

Subject	Specialist
U.S. electric net generation	Eric Harrison
U.S. electric consumption of fuels	Christopher Cassar
U.S. electric stocks of fuels	Christopher Cassar
U.S. electric fossil-fuel receipts	Eric Harrison
U.S. electric fossil-fuel costs	Eric Harrison
U.S. sales of electricity to ultimate consumers	Alexander Gorski
Sampling and estimation methodologies	Orhan Yildiz.

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

Preface

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

Background

The Office of Energy Production, Conversion & Delivery (EPCD), Energy Information Administration (EIA), U.S. Department of Energy., prepares the EPM. This publication provides monthly statistics at the State (lowest level of aggregation), Census Division, and U.S. levels for net generation, fossil fuel consumption and stocks, cost, quantity, and quality of fossil fuels received, sales of electricity to ultimate consumers, associated revenue, and average price of electricity sold. In addition, the report contains rolling 12-month totals in the national overviews, as appropriate.

Data sources

The EPM contains information from the following data sources: Form EIA-923, "Power Plant Operations Report;" Form EIA-826, "Monthly Electric Sales and Revenue With State Distributions Report;" Form EIA-860, "Annual Electric Generator Report;" Form EIA-860M, "Monthly Update to the Annual Electric Generator Report;" and Form EIA-861, "Annual Electric Power Industry Report." Forms and their instructions may be obtained from: http://www.eia.gov/survey/#electricity. A detailed description of these forms and associated algorithms are found in Appendix C, “Technical Notes.”

Figure Index

Table Index

Executive Summary

Chapter 1. Net Generation

Chapter 2. Consumption of Fossil Fuels

Chapter 3. Fossil-Fuel Stocks for Electricity Generation

Chapter 4. Receipts and Cost of Fossil Fuels

Appendices

Executive Summary

Table ES1.A. Total Electric Power Industry Summary Statistics, 2023 and 2022

Net Generation and Consumption of Fuels for July														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	78,672	86,263	-8.8%	62,614	66,568	15,637	19,197	13	25	409	473	0	0
Petroleum Liquids	Utility Scale Facilities	968	1,004	-3.7%	709	727	219	235	5	7	34	35	0	0
Petroleum Coke	Utility Scale Facilities	546	482	13.3%	484	388	40	64	0	1	22	30	0	0
Natural Gas	Utility Scale Facilities	200,621	190,437	5.3%	100,002	96,224	91,268	85,100	749	721	8,603	8,393	0	0
Other Gas	Utility Scale Facilities	1,014	1,133	-10.6%	0	0	296	358	0	0	718	775	0	0
Nuclear	Utility Scale Facilities	69,888	68,857	1.5%	39,977	38,888	29,910	29,969	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	21,500	24,193	-11.1%	19,715	22,854	1,696	1,246	NM	31	68	63	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	52,224	51,436	1.5%	6,738	6,980	43,167	41,869	423	312	1,897	2,275	0	0
... Wind	Utility Scale Facilities	27,726	29,302	-5.4%	3,956	4,622	23,757	24,661	NM	10	NM	9	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	18,988	15,749	20.6%	2,317	1,802	16,558	13,843	77	74	36	31	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	2,811	3,478	-19.2%	301	377	707	908	10	18	1,793	2,175	0	0
... Other Biomass	Utility Scale Facilities	1,367	1,468	-6.9%	83	92	893	1,142	330	174	61	61	0	0
... Geothermal	Utility Scale Facilities	1,333	1,438	-7.3%	82	87	1,251	1,315	0	36	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-648	-768	-15.6%	-519	-623	-129	-146	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	870	976	-10.8%	30	20	258	526	291	98	292	332	0	0
All Energy Sources	Utility Scale Facilities	425,655	424,013	0.4%	229,749	232,027	182,360	178,418	1,502	1,194	12,043	12,375	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	7,797	6,157	26.6%	0	0	0	0	2,095	1,825	465	427	5,238	3,905
Estimated Total Solar Photovoltaic	All Facilities	26,405	21,618	22.1%	2,317	1,799	16,178	13,557	2,171	1,899	501	458	5,238	3,905
Estimated Total Solar	All Facilities	26,785	21,907	22.3%	2,317	1,802	16,558	13,843	2,171	1,899	501	458	5,238	3,905
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	44,171	49,235	-10.3%	34,441	37,818	9,586	11,260	4	8	140	150	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,715	1,877	-8.7%	1,306	1,411	356	411	13	20	39	36	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	220	209	5.3%	196	177	15	NM	0	0	9	10	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,494,017	1,420,388	5.2%	766,258	743,295	670,915	621,241	4,577	4,222	52,267	51,629	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	833	1,003	-17.0%	169	223	36	48	24	42	604	691	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	139	200	-30.1%	6	7	25	26	17	39	92	129	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	79	50	58.7%	1	1	34	NM	0	1	44	46	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	103,205	103,216	0.0%	5,655	5,488	27,827	29,989	5,606	5,571	64,117	62,167	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	45,004	50,239	-10.4%	34,610	38,041	9,622	11,308	28	49	744	841	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,854	2,077	-10.7%	1,312	1,417	381	436	31	59	131	164	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	299	259	15.5%	197	178	49	NM	0	1	53	57	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,597,223	1,523,604	4.8%	771,913	748,783	698,742	651,230	10,184	9,793	116,384	113,797	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	122,354	80,190	52.6%	100,324	67,011	21,457	12,729	48	54	525	395	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	24,874	28,540	-12.8%	14,384	15,142	8,825	10,898	330	379	1,335	2,121	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	754	658	14.5%	435	459	6	9	1	4	312	186	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for July									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	July 2023	July 2022	Percentage Change	July 2023	July 2022	Percentage Change	July 2023	July 2022	Percentage Change
Residential	159,530	165,715	-3.7%	25,374	25,536	-0.6%	15.91	15.41	3.2%
Commercial	132,470	132,308	0.1%	17,372	17,395	-0.1%	13.11	13.15	-0.3%
Industrial	89,003	89,169	-0.2%	7,518	8,392	-10.4%	8.45	9.41	-10.2%
Transportation	620	566	9.7%	84	70	19.7%	13.50	12.37	9.1%
All Sectors	381,623	387,757	-1.6%	50,347	51,394	-2.0%	13.19	13.25	-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 July														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	376,276	495,772	-24.1%	290,555	368,826	82,947	123,622	105	142	2,670	3,182	0	0
Petroleum Liquids	Utility Scale Facilities	6,780	8,513	-20.4%	5,052	5,415	1,437	2,816	34	51	255	231	0	0
Petroleum Coke	Utility Scale Facilities	2,297	3,935	-41.6%	1,772	2,961	378	752	1	8	145	213	0	0
Natural Gas	Utility Scale Facilities	1,015,276	942,875	7.7%	503,454	466,055	451,847	416,993	4,401	4,269	55,573	55,558	0	0
Other Gas	Utility Scale Facilities	6,449	6,823	-5.5%	0	0	1,788	2,065	0	0	4,661	4,759	0	0
Nuclear	Utility Scale Facilities	447,324	448,826	-0.3%	256,297	249,066	191,027	199,760	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	149,956	168,202	-10.8%	136,843	154,753	12,447	12,733	157	188	508	528	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	391,910	400,677	-2.2%	60,087	62,858	315,849	320,754	2,390	2,177	13,584	14,888	0	0
... Wind	Utility Scale Facilities	255,525	269,492	-5.2%	44,267	48,763	211,092	220,540	97	110	70	78	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	98,529	89,883	9.6%	13,412	10,968	84,516	78,313	412	435	189	167	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	19,039	21,582	-11.8%	1,460	1,905	4,668	5,390	65	107	12,846	14,180	0	0
... Other Biomass	Utility Scale Facilities	9,373	9,949	-5.8%	578	630	6,791	7,650	1,526	1,206	478	462	0	0
... Geothermal	Utility Scale Facilities	9,443	9,771	-3.4%	371	592	8,782	8,861	291	318	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-3,601	-3,313	8.7%	-2,821	-2,558	-780	-755	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	5,825	6,699	-13.0%	158	200	2,649	3,511	1,095	699	1,924	2,290	0	0
All Energy Sources	Utility Scale Facilities	2,398,491	2,479,010	-3.2%	1,251,397	1,307,576	1,059,590	1,082,251	8,184	7,534	79,321	81,649	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	44,242	35,177	25.8%	0	0	0	0	11,965	10,457	2,658	2,459	29,620	22,261
Estimated Total Solar Photovoltaic	All Facilities	141,083	123,159	14.6%	13,412	10,944	82,829	76,436	12,376	10,891	2,847	2,627	29,620	22,261
Estimated Total Solar	All Facilities	142,771	125,060	14.2%	13,412	10,968	84,516	78,313	12,376	10,891	2,847	2,627	29,620	22,261
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	215,251	278,591	-22.7%	163,620	206,073	50,704	71,452	35	44	891	1,021	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	12,353	15,045	-17.9%	9,638	10,166	2,351	4,491	81	138	283	250	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	930	1,605	-42.1%	750	1,259	123	273	0	2	56	70	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	7,431,169	6,926,056	7.3%	3,816,831	3,560,627	3,249,244	2,999,325	26,839	25,838	338,254	340,266	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	5,939	6,900	-13.9%	897	1,269	340	468	198	225	4,504	4,939	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,300	1,412	-7.9%	51	73	199	189	156	264	894	886	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	478	422	13.3%	7	15	194	73	2	11	275	324	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	697,992	707,329	-1.3%	31,241	29,566	176,967	185,384	38,255	40,634	451,529	451,745	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	221,189	285,491	-22.5%	164,517	207,342	51,044	71,920	233	269	5,396	5,960	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	13,653	16,458	-17.0%	9,689	10,239	2,550	4,680	238	403	1,177	1,136	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,408	2,027	-30.5%	757	1,273	317	346	2	14	332	394	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	8,129,160	7,633,385	6.5%	3,848,072	3,590,193	3,426,211	3,184,709	65,094	66,472	789,783	792,011	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through July									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	Percentage Change
Residential	836,665	892,212	-6.2%	133,174	130,878	1.8%	15.92	14.67	8.5%
Commercial	783,682	789,294	-0.7%	99,257	96,221	3.2%	12.67	12.19	3.9%
Industrial	574,798	585,929	-1.9%	46,340	47,761	-3.0%	8.06	8.15	-1.1%
Transportation	3,895	3,829	1.7%	497	434	14.5%	12.77	11.34	12.6%
All Sectors	2,199,039	2,271,263	-3.2%	279,268	275,294	1.4%	12.70	12.12	4.8%

YTD = Year to Date

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

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2023 and 2022

Total (All Sectors)

							Year-to-Date			
	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Receipts (Physical Units)		Cost (Dollars / Physical Unit)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal (1000 tons)	37,440	39,826	46.54	46.81	184	207	248,110	264,476	47.61	42.72
Petroleum Liquids (1000 barrels)	1,397	1,332	107.10	177.41	101	108	10,000	9,598	133.53	142.71
Petroleum Coke (1000 tons)	100	205	101.16	131.34	3	5	889	1,361	122.44	131.38
Natural Gas (1000 Mcf)	1,322,828	1,276,647	3.06	7.72	596	600	6,839,674	6,448,562	3.73	7.06

Electric Utilities

							Year-to-Date			
	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Receipts (Physical Units)		Cost (Dollars / Physical Unit)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal (1000 tons)	29,025	29,154	48.23	47.21	140	151	188,324	193,947	49.03	43.62
Petroleum Liquids (1000 barrels)	1,085	1,077	105.38	175.82	67	74	7,397	6,644	120.01	146.97
Petroleum Coke (1000 tons)	100	205	101.16	131.34	3	5	889	1,361	122.44	131.38
Natural Gas (1000 Mcf)	652,468	643,947	3.37	7.97	306	313	3,349,795	3,168,441	4.25	7.31

Independent Power Producers

							Year-to-Date			
	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Receipts (Physical Units)		Cost (Dollars / Physical Unit)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal (1000 tons)	7,916	10,077	39.73	45.22	35	43	56,074	66,542	41.61	39.52
Petroleum Liquids (1000 barrels)	290	230	113.88	191.41	27	24	2,282	2,761	182.94	134.08
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	607,202	563,981	2.67	7.46	245	242	3,045,632	2,815,229	3.16	6.84

Commercial Sector

							Year-to-Date			
	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Receipts (Physical Units)		Cost (Dollars / Physical Unit)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal (1000 tons)	0	0	--	--	0	0	2	4	96.90	90.28
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	607	668	3.18	4.00	3	3	4,651	4,791	3.08	3.88

Industrial Sector

							Year-to-Date			
	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Receipts (Physical Units)		Cost (Dollars / Physical Unit)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal (1000 tons)	499	595	55.29	54.47	9	13	3,710	3,983	65.94	52.35
Petroleum Liquids (1000 barrels)	23	26	102.83	118.47	7	10	321	193	102.16	108.80
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	62,551	68,051	2.91	7.18	42	42	439,596	460,102	3.11	6.48

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... A plant using more than one fuel may be counted multiple times.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2023 and 2022

Total (All Sectors)

							Year-to-Date			
	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Receipts (Billion Btu)		Cost (Dollars / Million Btu)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal	700,790	752,383	2.49	2.48	184	207	4,683,388	5,010,088	2.52	2.25
Petroleum Liquids	8,602	8,080	17.40	29.24	101	108	60,820	57,882	21.95	23.64
Petroleum Coke	2,787	5,781	3.62	4.65	3	5	25,056	38,480	4.34	4.65
Natural Gas	1,365,367	1,315,747	2.96	7.49	596	600	7,059,508	6,650,351	3.62	6.84
Fossil Fuels	2,077,547	2,081,992	2.86	5.64	711	718	11,828,772	11,756,801	3.26	4.86

Electric Utilities

							Year-to-Date			
	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Receipts (Billion Btu)		Cost (Dollars / Million Btu)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal	551,953	555,332	2.54	2.48	140	151	3,595,323	3,695,510	2.57	2.29
Petroleum Liquids	6,695	6,519	17.08	29.04	67	74	44,911	40,290	19.77	24.24
Petroleum Coke	2,787	5,781	3.62	4.65	3	5	25,056	38,480	4.34	4.65
Natural Gas	672,471	662,848	3.27	7.74	306	313	3,452,592	3,263,150	4.12	7.09
Fossil Fuels	1,233,907	1,230,479	3.02	5.46	390	397	7,117,882	7,037,430	3.43	4.65

Independent Power Producers

							Year-to-Date			
	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Receipts (Billion Btu)		Cost (Dollars / Million Btu)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal	139,185	184,805	2.26	2.46	35	43	1,013,743	1,232,305	2.30	2.13
Petroleum Liquids	1,765	1,405	18.69	31.28	27	24	13,957	16,408	29.88	22.51
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	627,873	582,421	2.58	7.21	245	242	3,150,388	2,909,651	3.05	6.61
Fossil Fuels	768,823	768,631	2.55	5.91	274	273	4,178,088	4,158,364	2.94	5.15

Commercial Sector

							Year-to-Date			
	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Receipts (Billion Btu)		Cost (Dollars / Million Btu)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal	0	0	--	--	0	0	42	93	4.28	3.95
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	629	693	3.07	3.86	3	3	4,807	4,976	2.98	3.73
Fossil Fuels	629	693	3.07	3.86	3	3	4,850	5,069	2.99	3.74

Industrial Sector

							Year-to-Date			
	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Receipts (Billion Btu)		Cost (Dollars / Million Btu)	
Fuel	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
Coal	9,652	12,246	2.86	2.65	9	13	74,279	82,179	3.29	2.54
Petroleum Liquids	141	156	16.54	19.35	7	10	1,951	1,184	16.78	17.69
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	64,395	69,785	2.82	7.01	42	42	451,722	472,575	3.02	6.31
Fossil Fuels	74,188	82,188	2.85	6.38	44	45	527,952	555,938	3.11	5.77

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-July 2023
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,635	12,022	797,166	259,367	17,691	261,522	-6,174	13,393	4,093,564	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,334,668	13,117	797,178	249,080	24,893	270,268	-5,091	13,955	4,078,714	14,139	35,805	39,032
2016	1,239,149	13,008	11,197	1,379,271	12,807	805,694	267,812	36,054	305,579	-6,686	13,689	4,077,574	18,812	51,483	54,866
2017	1,205,835	12,414	8,976	1,297,703	12,469	804,950	300,333	53,287	332,963	-6,495	13,008	4,035,443	23,990	74,008	77,277
2018	1,149,487	16,245	8,981	1,471,843	13,463	807,084	292,524	63,825	350,467	-5,905	12,973	4,180,988	29,539	89,773	93,365
2019	964,957	11,522	6,819	1,588,533	12,591	809,409	287,874	71,937	368,862	-5,261	13,331	4,130,574	34,957	103,676	106,894
2020	773,393	9,662	7,679	1,626,790	11,818	789,879	285,274	89,199	408,539	-5,321	12,855	4,009,767	41,522	127,588	130,721
2021	897,999	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	828,993	16,274	7,109	1,689,465	11,884	771,537	261,999	145,598	505,272	-6,034	11,038	4,243,136	58,512	201,107	204,110
Year 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	660	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	41,696	-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	883	681	170,189	1,046	68,832	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	11,967	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	87,485	3,002	537	135,409	984	70,577	26,213	8,171	44,205	-493	1,017	377,106	3,247	11,285	11,418
February	70,746	1,021	625	115,538	837	61,852	22,904	9,333	43,595	-412	892	326,931	3,577	12,751	12,910
March	60,743	966	463	111,806	896	63,154	25,356	11,898	48,837	-318	971	324,772	4,900	16,543	16,798
April	55,023	745	496	105,729	914	55,290	19,573	13,476	51,401	-265	941	303,324	5,409	18,563	18,885
May	62,225	861	667	127,714	1,061	63,382	23,071	15,198	47,544	-467	959	342,215	5,946	20,773	21,145
June	73,287	912	665	156,242	998	65,715	26,892	16,058	39,525	-589	943	380,649	5,941	21,626	21,998
July	86,263	1,004	482	190,437	1,133	68,857	24,193	15,749	35,686	-768	976	424,013	6,157	21,618	21,907
August	85,000	1,022	564	189,197	1,020	68,897	21,713	14,442	30,573	-640	921	412,710	5,910	20,072	20,352
Sept	64,817	996	623	156,286	1,049	63,733	16,812	13,504	32,657	-598	843	350,722	5,282	18,501	18,786
October	54,071	990	574	133,025	985	58,945	14,638	12,252	38,226	-434	839	314,111	4,790	16,752	17,042
November	56,170	937	628	126,944	964	62,041	18,764	8,484	47,660	-495	861	322,959	3,852	12,187	12,336
December	73,164	3,815	785	141,138	1,043	69,094	21,870	7,033	45,361	-554	875	363,625	3,501	10,435	10,534
Year 2023															
January	60,121	998	329	137,731	1,002	70,870	22,954	8,137	45,015	-611	890	347,437	4,020	12,073	12,157
February	46,315	1,104	313	124,428	912	60,807	19,338	9,381	47,245	-448	805	310,201	4,412	13,685	13,794
March	49,863	980	276	131,987	984	62,820	20,630	12,274	49,765	-538	814	329,856	6,104	18,225	18,379
April	39,880	900	305	120,941	717	56,501	17,917	14,973	47,783	-313	739	300,344	6,855	21,533	21,828
May	43,653	925	226	137,714	905	61,473	27,983	17,000	37,601	-483	860	327,859	7,588	24,288	24,588
June	57,771	905	301	161,853	916	64,965	19,632	17,775	32,735	-560	847	357,140	7,465	24,874	25,240
July	78,672	968	546	200,621	1,014	69,888	21,500	18,988	33,236	-648	870	425,655	7,797	26,405	26,785
Year to Date															
2021	537,244	6,767	4,097	886,388	6,520	453,783	154,166	68,923	255,236	-2,759	7,109	2,377,476	29,820	96,964	98,743
2022	495,772	8,513	3,935	942,875	6,823	448,826	168,202	89,883	310,794	-3,313	6,699	2,479,010	35,177	123,159	125,060
2023	376,276	6,780	2,297	1,015,276	6,449	447,324	149,956	98,529	293,381	-3,601	5,825	2,398,491	44,242	141,083	142,771
Rolling 12 Months Ending in July															
2022	856,526	13,409	7,349	1,635,677	11,700	774,688	265,620	136,218	503,982	-5,665	11,730	4,211,233	54,521	187,694	190,740
2023	709,497	14,541	5,471	1,761,865	11,510	770,035	243,754	154,244	487,859	-6,323	10,164	4,162,618	67,577	219,031	221,820

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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-July 2023
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
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	434,812	142,596	3,003	36,569	8,938	5,789	2,163	17,002	261,999	912,870	58,512	201,107	204,110
Year 2021													
January	30,060	5,479	80	3,229	860	530	205	1,347	24,560	66,350	2,750	8,229	8,309
February	26,716	6,196	134	2,859	759	457	183	1,287	20,137	58,728	2,939	9,135	9,270
March	39,205	9,038	259	3,108	845	520	209	1,242	21,220	75,646	4,158	13,196	13,454
April	36,158	10,558	334	2,785	779	506	180	1,288	19,389	71,977	4,610	15,168	15,502
May	33,787	12,064	393	2,966	806	517	191	1,335	23,309	75,368	5,063	17,127	17,520
June	26,672	11,876	321	3,088	773	518	179	1,277	23,454	68,157	5,107	16,983	17,304
July	21,716	11,934	257	3,248	792	525	179	1,351	22,098	62,100	5,192	17,127	17,384
August	27,071	11,626	341	3,315	776	519	175	1,337	20,328	65,487	4,924	16,551	16,891
Sept	28,998	10,912	302	3,005	754	497	185	1,343	17,022	63,020	4,370	15,282	15,584
October	32,215	9,045	223	2,835	751	500	188	1,319	17,133	64,210	3,821	12,866	13,089
November	35,751	7,607	188	2,890	723	480	190	1,366	19,373	68,568	3,259	10,866	11,054
December	39,849	5,999	92	3,134	803	533	201	1,484	23,562	75,656	2,970	8,969	9,061
Year 2022													
January	38,080	8,038	133	3,089	783	494	192	1,566	26,213	78,588	3,247	11,285	11,418
February	37,984	9,174	159	2,981	714	434	172	1,310	22,904	75,832	3,577	12,751	12,910
March	43,014	11,642	256	3,012	775	467	192	1,376	25,356	86,091	4,900	16,543	16,798
April	45,960	13,154	322	2,731	726	484	168	1,333	19,573	84,450	5,409	18,563	18,885
May	41,668	14,827	371	3,052	773	492	176	1,384	23,071	85,814	5,946	20,773	21,145
June	33,483	15,686	372	3,239	765	498	177	1,363	26,892	82,475	5,941	21,626	21,998
July	29,302	15,461	288	3,478	769	511	189	1,438	24,193	75,629	6,157	21,618	21,907
August	24,355	14,162	279	3,351	751	498	177	1,442	21,713	66,728	5,910	20,072	20,352
Sept	27,032	13,219	285	2,871	718	469	155	1,412	16,812	62,973	5,282	18,501	18,786
October	32,824	11,962	290	2,647	748	474	189	1,344	14,638	65,116	4,790	16,752	17,042
November	41,826	8,335	149	3,004	703	474	184	1,469	18,764	74,909	3,852	12,187	12,336
December	39,282	6,934	99	3,114	714	494	194	1,564	21,870	74,264	3,501	10,435	10,534
Year 2023													
January	39,076	8,053	84	3,095	744	485	202	1,414	22,954	76,106	4,020	12,073	12,157
February	42,015	9,272	109	2,638	650	423	203	1,316	19,338	75,964	4,412	13,685	13,794
March	44,355	12,121	154	2,692	708	448	193	1,369	20,630	82,670	6,104	18,225	18,379
April	42,848	14,678	295	2,344	628	411	180	1,374	17,917	80,673	6,855	21,533	21,828
May	32,040	16,700	300	2,810	712	479	192	1,368	27,983	82,584	7,588	24,288	24,588
June	27,466	17,410	365	2,650	695	484	171	1,269	19,632	70,143	7,465	24,874	25,240
July	27,726	18,608	380	2,811	694	499	174	1,333	21,500	73,724	7,797	26,405	26,785
Year to Date													
2021	214,313	67,145	1,779	21,284	5,614	3,573	1,327	9,126	154,166	478,326	29,820	96,964	98,743
2022	269,492	87,983	1,901	21,582	5,304	3,379	1,266	9,771	168,202	568,879	35,177	123,159	125,060
2023	255,525	96,841	1,687	19,039	4,831	3,228	1,314	9,443	149,956	541,865	44,242	141,083	142,771
Rolling 12 Months Ending in July													
2022	433,376	133,173	3,046	36,761	9,112	5,908	2,205	16,620	265,620	905,820	54,521	187,694	190,740
2023	420,845	151,454	2,789	34,027	8,464	5,638	2,212	16,674	243,754	885,856	67,577	219,031	221,820

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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.A. Net Generation by Energy Source: Electric Utilities, 2013-July 2023
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,440	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,500
2015	998,385	10,386	8,278	619,003	199	416,680	229,640	1,494	35,992	-4,105	558	2,316,508
2016	922,399	9,069	8,881	655,744	154	424,400	247,787	1,995	40,666	-5,629	421	2,305,887
2017	893,639	8,567	6,711	625,094	149	424,485	275,677	3,348	42,763	-5,448	553	2,275,539
2018	863,505	10,108	6,817	722,916	151	424,251	267,336	4,916	44,184	-4,785	561	2,339,960
2019	722,885	8,313	5,112	787,745	154	430,672	262,364	6,785	48,403	-4,261	551	2,268,723
2020	582,374	7,182	5,663	815,414	45	428,953	264,650	9,945	59,797	-4,326	618	2,170,316
2021	674,804	8,791	5,728	777,057	12	430,683	228,689	13,911	75,338	-3,876	508	2,211,643
2022	620,878	10,411	5,383	832,401	0	427,933	240,726	17,661	85,680	-4,758	313	2,236,628
Year 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	38,371	20,109	1,394	4,414	-551	35	226,361
August	77,465	935	600	85,233	0	38,752	18,598	1,325	5,402	-531	47	227,827
Sept	60,311	740	482	66,832	0	35,306	15,289	1,265	6,036	-313	45	185,991
October	45,722	690	514	62,206	0	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	63,860	1,308	388	66,691	0	39,295	24,187	1,082	8,162	-420	34	204,586
February	50,816	683	453	55,458	0	34,300	20,933	1,198	7,993	-301	31	171,564
March	42,888	730	324	54,085	0	34,385	22,978	1,533	8,518	-214	34	165,261
April	39,971	571	361	51,449	0	30,252	17,546	1,703	8,548	-164	30	150,268
May	47,863	694	503	62,727	0	35,037	21,197	1,834	7,448	-375	32	176,959
June	56,861	702	545	79,422	0	36,908	25,057	1,816	6,043	-460	19	206,913
July	66,568	727	388	96,224	0	38,888	22,854	1,802	5,178	-623	20	232,027
August	64,301	734	421	94,122	0	38,921	20,211	1,709	4,836	-495	20	224,779
Sept	49,585	764	480	75,879	0	35,914	15,445	1,481	5,687	-493	19	184,762
October	40,990	754	440	64,128	0	32,085	13,359	1,468	6,751	-370	29	159,634
November	41,130	728	446	62,514	0	33,612	17,190	1,042	8,582	-398	23	164,868
December	56,045	2,016	636	69,703	0	38,335	19,767	994	7,933	-443	24	195,010
Year 2023												
January	47,749	787	265	67,471	0	40,507	20,587	1,210	6,944	-498	22	185,044
February	34,750	726	257	59,915	0	34,281	17,524	1,454	8,141	-359	17	156,706
March	37,601	734	166	64,505	0	36,091	18,489	1,899	7,961	-416	18	167,048
April	28,923	678	176	59,932	0	33,413	16,133	1,969	8,453	-222	17	149,471
May	32,512	692	166	70,352	0	34,877	25,981	2,299	6,176	-369	22	172,710
June	46,406	727	257	81,276	0	37,151	18,414	2,265	4,579	-438	32	190,669
July	62,614	709	484	100,002	0	39,977	19,715	2,317	4,421	-519	30	229,749
Year to Date												
2021	405,668	5,089	3,080	441,295	12	247,977	140,411	8,291	41,226	-2,059	285	1,291,277
2022	368,826	5,415	2,961	466,055	0	249,066	154,753	10,968	51,890	-2,558	200	1,307,576
2023	290,555	5,052	1,772	503,454	0	256,297	136,843	13,412	46,675	-2,821	158	1,251,397
Rolling 12 Months Ending in July												
2022	637,963	9,117	5,609	801,817	0	431,772	243,030	16,588	86,002	-4,375	422	2,227,943
2023	542,606	10,048	4,194	869,800	0	435,164	222,817	20,105	80,465	-5,022	272	2,180,448

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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.B Net Generation by Energy Source: Independent Power Producers, 2013-July 2023
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,622	1,554,462
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,765	1,603,898
2016	307,263	3,360	1,401	624,600	3,758	381,294	18,539	33,502	233,553	-1,057	6,876	1,613,090
2017	304,198	3,281	1,480	572,919	3,978	380,465	23,034	49,376	258,962	-1,047	6,439	1,603,086
2018	278,668	5,487	1,516	645,616	3,935	382,833	23,812	58,337	275,154	-1,119	6,677	1,680,917
2019	235,847	2,669	1,125	692,113	3,883	378,738	24,288	64,480	290,343	-1,000	7,138	1,699,625
2020	185,328	1,984	1,504	706,885	3,129	360,925	19,409	78,567	319,633	-995	6,971	1,683,340
2021	217,636	2,378	1,413	699,547	3,292	348,961	21,702	100,612	344,784	-1,235	6,449	1,745,538
2022	202,529	5,299	1,342	753,767	3,450	343,604	20,112	126,954	391,972	-1,276	5,898	1,853,652
Year 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	-93	535	137,617
June	20,363	225	87	65,700	322	29,216	1,544	10,826	25,029	-106	537	153,743
July	24,606	194	114	75,646	312	30,461	1,889	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	171,216
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	535	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	23,140	1,638	116	59,218	278	31,282	1,916	7,031	33,613	-73	526	158,687
February	19,485	297	135	51,878	235	27,552	1,872	8,072	33,403	-111	459	143,278
March	17,363	201	NM	49,045	256	28,768	2,269	10,285	37,985	-103	490	146,672
April	14,624	142	107	46,463	280	25,037	1,932	11,682	40,593	-101	501	141,260
May	13,870	131	127	56,790	371	28,345	1,770	13,266	37,733	-92	502	152,815
June	15,942	171	91	68,497	285	28,807	1,729	14,134	31,087	-129	507	161,122
July	19,197	235	64	85,100	358	29,969	1,246	13,843	28,026	-146	526	178,418
August	20,190	250	112	85,857	278	29,976	1,404	12,635	23,316	-145	504	174,379
Sept	14,783	193	112	72,095	316	27,819	1,286	11,928	24,888	-105	473	153,789
October	12,653	201	103	60,492	274	26,860	1,204	10,698	29,455	-64	461	142,338
November	14,624	176	143	55,701	247	28,430	1,486	7,386	36,768	-97	459	145,323
December	16,657	1,663	119	62,629	270	30,759	1,998	5,993	35,104	-111	490	155,572
Year 2023												
January	11,944	159	43	61,351	290	30,363	2,255	6,873	35,691	-113	450	149,306
February	11,181	336	39	56,171	243	26,526	1,720	7,869	36,997	-89	391	141,385
March	11,878	201	78	58,711	264	26,730	2,040	10,294	39,594	-122	405	150,073
April	10,582	184	107	53,439	170	23,088	1,700	12,914	37,257	-91	348	139,700
May	10,755	199	42	59,247	279	26,596	1,895	14,600	29,174	-114	436	143,107
June	10,970	139	28	71,662	246	27,814	1,142	15,408	26,011	-123	361	153,658
July	15,637	219	40	91,268	296	29,910	1,696	16,558	26,609	-129	258	182,360
Year to Date												
2021	128,370	1,371	786	386,675	1,908	205,806	13,034	60,186	197,555	-700	3,814	998,805
2022	123,622	2,816	752	416,993	2,065	199,760	12,733	78,313	242,441	-755	3,511	1,082,251
2023	82,947	1,437	378	451,847	1,788	191,027	12,447	84,516	231,333	-780	2,649	1,059,590
Rolling 12 Months Ending in July												
2022	212,888	3,822	NM	729,864	3,449	342,916	21,401	118,740	389,670	-1,291	6,146	1,828,983
2023	161,854	3,921	968	788,622	3,174	334,871	19,827	133,157	380,864	-1,301	5,035	1,830,991

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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-July 2023
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	383	77	6	7,730	0	0	217	529	2,697	0	1,068	12,706	6,158	6,687	6,687
2017	329	103	8	8,042	0	0	240	521	2,729	0	1,088	13,060	7,685	8,206	8,206
2018	303	132	7	8,419	0	0	227	525	2,688	0	1,010	13,312	9,798	10,324	10,324
2019	268	116	5	8,610	0	0	188	587	2,840	0	1,076	13,689	11,002	11,588	11,588
2020	240	97	2	8,110	0	0	214	586	2,761	0	1,035	13,046	12,859	13,445	13,445
2021	280	94	4	7,346	0	0	258	598	2,978	0	1,209	12,768	15,124	15,722	15,722
2022	275	89	10	7,366	0	0	292	706	2,942	0	1,171	12,852	17,093	17,800	17,800
Year 2021															
January	26	10	0	638	0	0	25	30	258	0	109	1,096	865	895	895
February	34	9	1	561	0	0	22	31	230	0	85	973	935	965	965
March	25	8	0	557	0	0	23	53	227	0	96	988	1,280	1,332	1,332
April	19	9	0	484	0	0	21	61	240	0	104	938	1,416	1,477	1,477
May	13	9	0	506	0	0	23	66	249	0	100	966	1,534	1,600	1,600
June	19	7	0	647	0	0	24	64	242	0	97	1,101	1,551	1,615	1,615
July	20	8	0	729	0	0	23	65	253	0	107	1,204	1,599	1,664	1,664
August	23	7	0	764	0	0	21	61	257	0	109	1,242	1,538	1,599	1,599
Sept	25	6	0	651	0	0	19	55	254	0	105	1,115	1,373	1,428	1,428
October	29	7	1	603	0	0	17	45	247	0	90	1,040	1,194	1,239	1,239
November	26	7	1	587	0	0	18	38	253	0	102	1,031	945	983	983
December	21	9	1	619	0	0	22	29	268	0	105	1,074	895	924	924
Year 2022															
January	29	NM	1	658	0	0	29	43	272	0	102	1,148	976	1,018	1,018
February	18	6	1	569	0	0	25	47	235	0	87	987	1,076	1,123	1,123
March	18	5	1	588	0	0	NM	58	255	0	103	1,054	1,469	1,527	1,527
April	12	5	1	547	0	0	NM	66	249	0	106	1,007	1,605	1,671	1,671
May	13	6	1	572	0	0	NM	71	251	0	100	1,042	1,752	1,823	1,823
June	26	8	1	615	0	0	NM	76	242	0	104	1,102	1,753	1,829	1,829
July	25	7	1	721	0	0	31	74	238	0	98	1,194	1,825	1,899	1,899
August	30	8	0	729	0	0	NM	70	244	0	98	1,204	1,737	1,806	1,806
Sept	29	5	0	643	0	0	18	68	221	0	88	1,072	1,550	1,618	1,618
October	26	5	0	541	0	0	NM	61	223	0	96	967	1,335	1,396	1,396
November	25	5	1	556	0	0	20	40	256	0	98	999	1,048	1,088	1,088
December	24	NM	1	629	0	0	23	33	256	0	94	1,075	967	1,000	1,000
Year 2023															
January	15	6	1	602	0	0	24	38	286	0	128	1,101	1,094	1,131	1,131
February	18	6	0	554	0	0	20	40	251	0	115	1,006	1,214	1,254	1,254
March	17	5	0	586	0	0	NM	56	263	0	115	1,063	1,666	1,722	1,722
April	19	3	0	680	0	0	NM	62	270	0	122	1,174	1,860	1,922	1,922
May	17	4	0	574	0	0	NM	69	256	0	129	1,080	2,024	2,093	2,093
June	NM	4	0	656	0	0	NM	70	306	0	195	1,259	2,013	2,083	2,083
July	13	5	0	749	0	0	NM	77	346	0	291	1,502	2,095	2,171	2,171
Year to Date															
2021	157	59	1	4,122	0	0	160	370	1,699	0	698	7,266	9,179	9,549	9,549
2022	142	51	8	4,269	0	0	188	435	1,742	0	699	7,534	10,457	10,891	10,891
2023	105	34	1	4,401	0	0	157	412	1,978	0	1,095	8,184	11,965	12,376	12,376
Rolling 12 Months Ending in July															
2022	266	NM	12	7,493	0	0	NM	663	3,021	0	1,210	13,037	16,402	17,065	17,065
2023	NM	NM	3	7,499	0	0	NM	683	3,178	0	1,567	13,502	18,602	19,285	19,285

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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-July 2023
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,103	503	909	91,197	8,895	0	1,269	27	28,663	0	5,324	145,890	2,060	2,087	2,087
2017	7,669	463	776	91,647	8,343	0	1,382	42	28,508	0	4,928	143,758	2,364	2,406	2,406
2018	7,011	517	640	94,892	9,377	0	1,149	47	28,440	0	4,725	146,798	2,636	2,683	2,683
2019	5,957	424	576	100,065	8,554	0	1,033	85	27,276	0	4,567	148,537	3,041	3,127	3,127
2020	5,451	398	510	96,381	8,644	0	1,001	101	26,348	0	4,231	143,064	3,484	3,586	3,586
2021	5,278	400	367	95,240	8,093	0	936	137	25,324	0	3,975	139,750	3,858	3,994	3,994
2022	5,311	475	374	95,929	8,434	0	870	277	24,678	0	3,656	140,005	4,067	4,344	4,344
Year 2021															
January	449	36	39	8,701	698	0	86	6	2,222	0	369	12,606	216	222	222
February	410	60	33	6,767	624	0	62	7	1,888	0	286	10,136	230	237	237
March	432	35	36	7,177	663	0	103	11	2,208	0	344	11,010	330	340	340
April	399	30	30	7,107	601	0	89	12	2,077	0	300	10,645	357	370	370
May	443	30	38	7,501	626	0	84	14	2,114	0	329	11,179	394	408	408
June	459	28	26	8,176	652	0	60	13	2,093	0	329	11,837	396	409	409
July	458	29	28	8,868	735	0	76	13	2,154	0	354	12,715	405	419	419
August	449	33	25	8,739	700	0	70	15	2,204	0	344	12,579	392	407	407
Sept	464	26	26	7,691	686	0	75	15	2,094	0	313	11,389	354	369	369
October	419	32	29	7,933	719	0	76	12	2,038	0	313	11,571	319	331	331
November	459	30	31	8,134	691	0	83	11	2,047	0	334	11,820	246	257	257
December	438	31	26	8,448	697	0	70	8	2,185	0	359	12,264	219	226	226
Year 2022															
January	456	41	31	8,842	706	0	81	15	2,158	0	355	12,686	231	246	246
February	427	36	35	7,633	602	0	74	17	1,963	0	315	11,102	245	262	262
March	474	30	NM	8,088	640	0	84	22	2,078	0	343	11,785	349	371	371
April	416	27	27	7,270	633	0	75	25	2,010	0	304	10,789	378	402	402
May	478	NM	36	7,625	690	0	76	27	2,113	0	326	11,400	415	442	442
June	458	31	27	7,707	713	0	75	32	2,154	0	315	11,511	415	446	446
July	473	35	30	8,393	775	0	63	31	2,244	0	332	12,375	427	458	458
August	479	30	31	8,488	742	0	72	28	2,177	0	300	12,348	413	442	442
Sept	418	35	30	7,669	733	0	62	27	1,861	0	263	11,099	371	398	398
October	403	30	31	7,864	711	0	58	25	1,797	0	254	11,172	336	360	360
November	391	29	39	8,173	717	0	67	16	2,054	0	282	11,769	258	275	275
December	438	120	29	8,177	773	0	82	13	2,068	0	267	11,968	230	243	243
Year 2023															
January	414	46	20	8,307	712	0	87	17	2,093	0	290	11,986	244	260	260
February	366	35	17	7,789	669	0	74	19	1,855	0	282	11,105	259	277	277
March	367	40	31	8,184	720	0	82	25	1,948	0	275	11,672	375	399	399
April	356	35	22	6,889	547	0	68	28	1,802	0	252	9,999	413	441	441
May	369	30	18	7,542	626	0	75	32	1,996	0	273	10,962	452	484	484
June	387	36	16	8,259	669	0	54	33	1,840	0	260	11,554	451	484	484
July	409	34	22	8,603	718	0	68	36	1,861	0	292	12,043	465	501	501
Year to Date															
2021	3,050	248	230	54,296	4,600	0	561	76	14,757	0	2,312	80,128	2,328	2,404	2,404
2022	3,182	231	213	55,558	4,759	0	528	167	14,721	0	2,290	81,649	2,459	2,627	2,627
2023	2,670	255	145	55,573	4,661	0	508	189	13,395	0	1,924	79,321	2,658	2,847	2,847
Rolling 12 Months Ending in July															
2022	5,410	NM	NM	96,502	8,252	0	903	228	25,289	0	3,953	141,270	3,989	4,217	4,217
2023	4,799	499	306	95,945	8,336	0	850	299	23,352	0	3,291	137,677	4,266	4,564	4,564

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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-July 2023
(Thousand Megawatthours)

	Small Scale Generation
Period	Estimated Small Scale Solar Photovoltaic Generation
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,942
2018	17,105
2019	20,914
2020	25,179
2021	30,182
2022	37,351
Year 2021	
January	1,669
February	1,774
March	2,549
April	2,837
May	3,135
June	3,161
July	3,188
August	2,994
Sept	2,642
October	2,308
November	2,068
December	1,857
Year 2022	
January	2,041
February	2,255
March	3,083
April	3,426
May	3,779
June	3,773
July	3,905
August	3,760
Sept	3,361
October	3,120
November	2,545
December	2,304
Year 2023	
January	2,683
February	2,940
March	4,064
April	4,582
May	5,113
June	5,001
July	5,238
Year to Date	
2021	18,313
2022	22,261
2023	29,620
Rolling 12 Months Ending in July	
2022	34,130
2023	44,709

See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	10,424	10,804	-3.5%	159	164	9,893	10,297	197	107	176	236
Connecticut	4,249	4,428	-4.0%	10	4	4,146	4,337	33	29	60	57
Maine	948	989	-4.1%	0	0	860	837	4	7	85	145
Massachusetts	2,372	2,557	-7.3%	66	87	2,142	2,391	150	61	14	19
New Hampshire	1,712	1,717	-0.3%	NM	NM	1,704	1,710	5	5	2	2
Rhode Island	970	959	1.2%	0	0	950	940	NM	5	14	13
Vermont	173	154	12.2%	82	72	91	82	0	0	0	0
Middle Atlantic	44,112	42,383	4.1%	3,624	3,526	39,630	38,144	358	204	500	508
New Jersey	7,324	7,422	-1.3%	38	38	7,130	7,266	103	65	53	53
New York	13,366	12,919	3.5%	3,580	3,480	9,514	9,268	202	103	70	68
Pennsylvania	23,423	22,041	6.3%	6	8	22,986	21,611	53	36	377	387
East North Central	57,266	57,556	-0.5%	21,501	22,185	34,675	34,254	183	179	906	938
Illinois	17,474	17,430	0.3%	781	818	16,421	16,328	57	56	215	228
Indiana	8,630	8,826	-2.2%	5,796	5,877	2,426	2,502	22	21	386	426
Michigan	11,147	11,906	-6.4%	7,483	8,606	3,494	3,127	60	62	110	111
Ohio	13,030	12,949	0.6%	1,662	1,691	11,268	11,177	31	28	68	53
Wisconsin	6,984	6,445	8.4%	5,780	5,193	1,065	1,120	12	11	128	121
West North Central	31,740	35,181	-9.8%	25,847	28,554	5,490	6,210	51	71	351	347
Iowa	5,588	5,938	-5.9%	4,843	5,090	527	624	9	18	208	206
Kansas	5,338	6,112	-12.7%	3,771	4,244	1,543	1,860	NM	NM	22	7
Minnesota	5,710	5,889	-3.0%	4,308	4,522	1,309	1,255	22	30	72	82
Missouri	6,845	7,758	-11.8%	6,278	7,188	546	547	17	21	3	3
Nebraska	3,314	3,896	-14.9%	2,721	3,134	560	731	2	1	32	31
North Dakota	3,541	3,898	-9.2%	2,968	3,274	562	610	0	0	NM	14
South Dakota	1,404	1,689	-16.9%	957	1,103	443	582	NM	NM	NM	NM
South Atlantic	84,887	82,514	2.9%	70,322	67,153	12,954	13,766	249	109	1,362	1,486
Delaware	860	773	11.1%	8	14	745	682	NM	NM	107	77
District of Columbia	20	15	34.8%	NM	0	NM	3	16	12	0	0
Florida	27,172	26,574	2.2%	25,484	24,421	1,209	1,723	97	36	381	395
Georgia	13,244	12,449	6.4%	10,602	9,532	2,270	2,465	NM	1	372	452
Maryland	3,675	3,504	4.9%	567	532	3,075	2,953	29	13	4	NM
North Carolina	14,103	13,676	3.1%	11,746	11,317	2,210	2,177	28	24	120	158
South Carolina	10,003	9,584	4.4%	9,458	8,880	416	549	0	0	129	155
Virginia	9,972	9,792	1.8%	7,588	7,874	2,144	1,703	78	22	161	192
West Virginia	5,838	6,147	-5.0%	4,868	4,583	882	1,512	0	0	88	52
East South Central	36,685	35,917	2.1%	31,856	30,516	4,042	4,566	19	18	769	817
Alabama	13,964	14,098	-1.0%	10,103	9,708	3,455	3,963	0	0	406	428
Kentucky	6,844	6,795	0.7%	6,705	6,638	96	109	NM	0	42	48
Mississippi	7,727	6,782	13.9%	7,272	6,269	299	351	0	0	156	162
Tennessee	8,150	8,242	-1.1%	7,775	7,902	191	143	19	18	165	179
West South Central	82,779	82,902	-0.1%	28,632	29,662	47,607	46,624	106	117	6,434	6,498
Arkansas	6,767	6,975	-3.0%	6,149	6,263	538	608	NM	NM	74	97
Louisiana	10,353	11,027	-6.1%	7,041	7,444	866	1,083	NM	13	2,443	2,487
Oklahoma	9,700	9,808	-1.1%	5,317	5,510	4,319	4,224	-2	0	65	73
Texas	55,959	55,092	1.6%	10,125	10,445	41,883	40,709	98	97	3,853	3,840
Mountain	37,792	37,119	1.8%	26,980	27,531	10,511	9,230	58	93	244	265
Arizona	12,240	11,040	10.9%	9,440	8,585	2,781	2,436	16	15	NM	NM
Colorado	5,617	5,854	-4.0%	3,951	4,395	1,643	1,435	4	5	19	19
Idaho	1,510	1,720	-12.2%	977	1,181	479	488	6	5	48	46
Montana	2,235	2,443	-8.5%	823	1,202	1,410	1,238	0	0	NM	NM
Nevada	4,868	4,643	4.9%	3,010	2,984	1,772	1,570	11	47	75	42
New Mexico	3,688	3,371	9.4%	2,138	2,169	1,526	1,192	11	NM	13	0
Utah	3,559	3,976	-10.5%	2,936	3,381	602	557	11	9	11	29
Wyoming	4,075	4,072	0.1%	3,705	3,635	297	315	0	0	73	123
Pacific Contiguous	38,493	38,181	0.8%	19,741	21,746	17,261	14,962	219	226	1,272	1,247
California	23,942	20,499	16.8%	8,591	6,733	14,086	12,537	210	217	1,055	1,012
Oregon	5,199	5,556	-6.4%	3,226	4,075	1,915	1,413	8	8	50	61
Washington	9,353	12,125	-22.9%	7,924	10,938	1,260	1,012	NM	2	168	174
Pacific Noncontiguous	1,475	1,457	1.2%	1,087	990	299	365	61	69	28	34
Alaska	664	651	2.1%	610	583	NM	21	27	36	11	10
Hawaii	811	807	0.6%	477	407	283	344	34	33	17	24
U.S. Total	425,655	424,013	0.4%	229,749	232,027	182,360	178,418	1,502	1,194	12,043	12,375

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	56,427	61,228	-7.8%	847	936	53,633	58,182	723	694	1,225	1,417
Connecticut	23,188	24,021	-3.5%	51	45	22,586	23,467	173	170	378	340
Maine	6,216	7,065	-12.0%	NM	NM	5,531	6,144	30	67	655	854
Massachusetts	11,603	13,022	-10.9%	295	341	10,763	12,177	456	383	90	121
New Hampshire	9,102	11,162	-18.5%	NM	NM	9,045	11,102	36	38	15	17
Rhode Island	5,161	4,688	10.1%	0	0	5,047	4,566	28	36	87	86
Vermont	1,157	1,271	-9.0%	494	543	661	726	1	2	0	0
Middle Atlantic	244,672	250,356	-2.3%	20,453	20,871	219,626	225,183	1,496	1,281	3,097	3,022
New Jersey	36,663	37,324	-1.8%	147	147	35,706	36,492	476	412	335	273
New York	70,670	73,186	-3.4%	20,246	20,641	49,200	51,435	770	626	454	484
Pennsylvania	137,339	139,846	-1.8%	60	83	134,721	137,256	250	243	2,309	2,265
East North Central	332,733	352,669	-5.7%	117,120	122,884	208,606	222,482	1,093	1,048	5,914	6,254
Illinois	103,405	111,146	-7.0%	2,632	2,938	99,095	106,444	299	268	1,378	1,497
Indiana	51,902	58,219	-10.8%	31,700	36,777	17,553	18,668	153	139	2,497	2,634
Michigan	69,484	65,996	5.3%	46,416	44,881	21,893	19,889	413	414	762	812
Ohio	72,003	79,960	-10.0%	8,227	9,013	63,203	70,380	151	144	421	423
Wisconsin	35,939	37,348	-3.8%	28,144	29,276	6,861	7,102	77	83	856	887
West North Central	203,187	223,043	-8.9%	148,078	163,577	52,450	56,772	465	446	2,194	2,248
Iowa	40,646	41,324	-1.6%	32,414	33,003	6,982	6,974	81	106	1,170	1,242
Kansas	33,638	37,930	-11.3%	19,142	20,641	14,336	17,207	NM	10	151	72
Minnesota	34,230	35,336	-3.1%	23,623	24,889	9,904	9,660	135	202	569	586
Missouri	38,276	46,010	-16.8%	34,113	41,921	3,907	3,942	229	118	28	29
Nebraska	22,583	24,205	-6.7%	15,219	16,759	7,174	7,233	11	11	178	201
North Dakota	23,748	26,585	-10.7%	18,122	19,944	5,555	6,549	0	0	71	91
South Dakota	10,066	11,653	-13.6%	5,445	6,420	4,592	5,206	NM	NM	28	27
South Atlantic	463,989	473,368	-2.0%	379,083	385,534	73,899	76,926	1,361	824	9,647	10,084
Delaware	2,914	2,730	6.7%	14	31	2,159	2,122	4	5	737	572
District of Columbia	123	110	12.1%	NM	0	18	18	104	91	0	0
Florida	149,124	149,804	-0.5%	139,318	138,809	6,959	8,119	359	239	2,488	2,638
Georgia	74,207	74,134	0.1%	59,343	58,848	12,185	12,308	2	4	2,677	2,974
Maryland	20,614	22,043	-6.5%	2,723	2,218	17,683	19,653	179	141	29	30
North Carolina	73,544	78,053	-5.8%	59,757	64,071	12,764	12,771	158	168	865	1,043
South Carolina	58,387	59,392	-1.7%	55,163	55,600	2,228	2,751	2	0	995	1,041
Virginia	53,776	52,755	1.9%	40,977	41,934	11,035	9,366	553	175	1,211	1,280
West Virginia	31,299	34,346	-8.9%	21,786	24,023	8,868	9,818	0	0	645	506
East South Central	207,446	214,175	-3.1%	177,159	182,823	24,981	25,822	121	116	5,185	5,414
Alabama	81,504	86,007	-5.2%	57,132	60,917	21,600	22,284	0	0	2,772	2,805
Kentucky	36,289	41,187	-11.9%	35,698	40,405	299	457	NM	0	292	325
Mississippi	42,901	39,190	9.5%	39,858	36,034	1,969	2,099	0	0	1,074	1,057
Tennessee	46,753	47,791	-2.2%	44,471	45,467	1,113	982	121	116	1,048	1,226
West South Central	450,069	457,184	-1.6%	135,967	146,405	271,607	267,743	494	543	42,000	42,493
Arkansas	35,218	38,471	-8.5%	31,564	33,906	3,078	3,860	34	35	541	671
Louisiana	54,866	61,846	-11.3%	34,528	40,045	3,918	4,879	31	80	16,390	16,842
Oklahoma	52,630	51,044	3.1%	23,062	22,114	29,102	28,405	-3	0	470	524
Texas	307,354	305,822	0.5%	46,813	50,340	235,509	230,598	432	428	24,600	24,456
Mountain	209,841	213,715	-1.8%	144,786	150,256	62,738	61,068	639	670	1,677	1,721
Arizona	62,049	58,871	5.4%	48,511	46,343	13,434	12,431	88	90	16	6
Colorado	32,518	33,687	-3.5%	22,004	23,281	10,374	10,255	15	19	124	133
Idaho	9,499	10,441	-9.0%	5,793	6,593	3,353	3,484	41	39	313	324
Montana	14,934	15,931	-6.3%	5,935	7,481	8,983	8,432	0	0	NM	17
Nevada	24,457	24,151	1.3%	14,436	13,932	9,402	9,654	359	387	260	178
New Mexico	23,413	23,582	-0.7%	12,214	13,363	11,109	10,139	64	72	26	9
Utah	19,522	21,663	-9.9%	16,039	18,029	3,300	3,351	72	63	111	219
Wyoming	23,447	25,390	-7.7%	19,854	21,233	2,784	3,323	0	0	810	835
Pacific Contiguous	220,911	224,129	-1.4%	121,098	128,093	90,219	85,778	1,413	1,474	8,181	8,784
California	123,624	113,082	9.3%	45,441	35,540	70,189	68,884	1,355	1,408	6,638	7,250
Oregon	35,893	37,474	-4.2%	23,413	26,782	12,065	10,275	51	48	364	369
Washington	61,394	73,573	-16.6%	52,244	65,770	7,965	6,619	7	18	1,178	1,165
Pacific Noncontiguous	9,216	9,143	0.8%	6,808	6,198	1,830	2,295	379	438	201	212
Alaska	3,904	3,797	2.8%	3,529	3,381	118	136	186	209	70	70
Hawaii	5,313	5,346	-0.6%	3,279	2,817	1,711	2,159	193	229	130	142
U.S. Total	2,398,491	2,479,010	-3.2%	1,251,397	1,307,576	1,059,590	1,082,251	8,184	7,534	79,321	81,649

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	14	14	-0.2%	0	0	14	14	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	2	2	-15.4%	0	0	2	2	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	12	12	2.6%	0	0	12	12	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	1,980	1,966	0.7%	0	0	1,972	1,958	0	0	8	8
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	1,980	1,966	0.7%	0	0	1,972	1,958	0	0	8	8
East North Central	14,704	18,806	-21.8%	9,170	10,971	5,427	7,696	NM	6	107	133
Illinois	2,915	4,100	-28.9%	133	185	2,686	3,797	NM	1	95	117
Indiana	3,994	4,770	-16.3%	3,666	4,348	328	417	0	5	0	0
Michigan	2,011	3,483	-42.3%	2,001	3,453	8	30	0	0	NM	0
Ohio	2,909	4,031	-27.8%	505	579	2,404	3,452	0	0	0	0
Wisconsin	2,875	2,422	18.7%	2,865	2,406	0	0	0	0	NM	16
West North Central	14,509	17,620	-17.7%	14,332	17,410	0	0	0	8	177	202
Iowa	2,507	2,556	-1.9%	2,378	2,403	0	0	0	7	129	146
Kansas	2,090	2,751	-24.0%	2,090	2,751	0	0	0	0	0	0
Minnesota	1,415	2,135	-33.7%	1,406	2,118	0	0	0	2	NM	16
Missouri	4,168	5,090	-18.1%	4,168	5,090	0	0	0	0	0	0
Nebraska	1,792	2,274	-21.2%	1,760	2,243	0	0	0	0	32	31
North Dakota	2,327	2,558	-9.0%	2,319	2,548	0	0	0	0	NM	NM
South Dakota	210	257	-18.2%	210	257	0	0	0	0	0	0
South Atlantic	14,256	12,231	16.6%	13,366	10,501	868	1,691	1	0	NM	39
Delaware	6	-3	-344.6%	0	0	6	-3	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,399	1,278	9.5%	1,396	1,275	0	0	0	0	NM	NM
Georgia	2,437	1,380	76.5%	2,427	1,368	0	0	0	0	NM	NM
Maryland	391	462	-15.5%	0	0	391	462	0	0	0	0
North Carolina	2,682	1,616	66.0%	2,678	1,606	0	0	1	0	NM	10
South Carolina	1,980	1,376	43.9%	1,977	1,358	0	16	0	0	2	2
Virginia	170	482	-64.8%	167	472	0	0	0	0	3	11
West Virginia	5,192	5,639	-7.9%	4,721	4,423	471	1,215	0	0	0	0
East South Central	9,965	9,780	1.9%	9,671	9,449	252	303	0	0	41	28
Alabama	2,430	2,531	-4.0%	2,427	2,530	0	0	0	0	NM	NM
Kentucky	4,662	4,410	5.7%	4,662	4,410	0	0	0	0	0	0
Mississippi	482	582	-17.2%	229	279	252	303	0	0	0	0
Tennessee	2,392	2,257	6.0%	2,354	2,230	0	0	0	0	38	27
West South Central	11,798	13,433	-12.2%	6,380	7,580	5,415	5,850	0	0	3	3
Arkansas	2,214	2,431	-8.9%	1,852	2,027	359	401	0	0	3	3
Louisiana	705	841	-16.2%	535	491	170	350	0	0	0	0
Oklahoma	869	1,316	-33.9%	869	1,316	0	0	0	0	0	0
Texas	8,010	8,846	-9.4%	3,123	3,746	4,887	5,100	0	0	0	0
Mountain	11,012	11,963	-7.9%	9,648	10,621	1,334	1,305	0	0	30	36
Arizona	1,548	1,482	4.4%	1,548	1,482	0	0	0	0	0	0
Colorado	1,950	2,396	-18.6%	1,950	2,396	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	1,100	1,053	4.5%	0	0	1,100	1,053	0	0	NM	NM
Nevada	296	326	-9.3%	153	173	143	153	0	0	0	0
New Mexico	964	1,065	-9.5%	964	1,065	0	0	0	0	0	0
Utah	1,837	2,401	-23.5%	1,803	2,363	34	38	0	0	0	0
Wyoming	3,316	3,238	2.4%	3,230	3,142	57	61	0	0	29	35
Pacific Contiguous	363	308	18.0%	0	0	341	284	0	0	22	24
California	21	22	-7.8%	0	0	0	0	0	0	21	22
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	343	286	20.1%	0	0	341	284	0	0	2	1
Pacific Noncontiguous	71	144	-50.7%	NM	NM	NM	96	NM	11	0	0
Alaska	71	65	8.1%	NM	NM	NM	18	NM	11	0	0
Hawaii	0	78	-100.0%	0	0	0	78	0	0	0	0
U.S. Total	78,672	86,263	-8.8%	62,614	66,568	15,637	19,197	13	25	409	473

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	138	286	-51.9%	0	0	138	286	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	25	26	-3.7%	0	0	25	26	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	112	260	-56.7%	0	0	112	260	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	7,121	16,265	-56.2%	0	0	7,065	16,212	0	0	56	53
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	7,121	15,767	-54.8%	0	0	7,065	15,715	0	0	56	53
East North Central	78,738	116,535	-32.4%	47,375	66,231	30,601	49,372	26	28	736	905
Illinois	15,489	25,635	-39.6%	732	1,073	14,092	23,777	6	4	659	780
Indiana	22,903	31,175	-26.5%	20,631	28,598	2,252	2,553	20	24	0	0
Michigan	12,603	19,891	-36.6%	12,458	19,682	137	204	0	0	NM	5
Ohio	16,652	26,000	-36.0%	2,533	3,164	14,120	22,837	0	0	0	0
Wisconsin	11,091	13,834	-19.8%	11,023	13,714	0	0	0	0	68	120
West North Central	72,194	88,972	-18.9%	71,157	87,684	0	0	6	47	1,032	1,240
Iowa	9,718	9,707	0.1%	8,987	8,785	0	0	3	31	728	891
Kansas	9,191	11,478	-19.9%	9,191	11,478	0	0	0	0	0	0
Minnesota	7,035	9,306	-24.4%	6,958	9,207	0	0	1	12	75	87
Missouri	22,915	31,425	-27.1%	22,913	31,422	0	0	2	4	0	0
Nebraska	9,668	11,493	-15.9%	9,490	11,291	0	0	0	0	178	201
North Dakota	12,848	14,264	-9.9%	12,798	14,203	0	0	0	0	50	61
South Dakota	819	1,298	-36.9%	819	1,298	0	0	0	0	0	0
South Atlantic	60,245	75,040	-19.7%	53,069	63,451	6,932	11,273	4	8	240	308
Delaware	-8	113	-106.7%	0	0	-8	113	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,704	9,046	-25.9%	6,679	9,024	0	0	0	0	NM	22
Georgia	8,856	10,789	-17.9%	8,764	10,668	0	0	0	0	92	121
Maryland	755	3,337	-77.4%	0	0	755	3,337	0	0	0	0
North Carolina	7,086	9,991	-29.1%	7,027	9,892	0	0	4	8	56	90
South Carolina	8,785	8,653	1.5%	8,718	8,522	55	123	0	0	13	8
Virginia	990	2,209	-55.2%	936	2,142	0	0	0	0	54	67
West Virginia	27,075	30,903	-12.4%	20,945	23,203	6,130	7,700	0	0	0	0
East South Central	48,296	58,202	-17.0%	46,352	56,190	1,705	1,785	0	0	239	228
Alabama	11,542	15,054	-23.3%	11,520	15,046	0	0	0	0	NM	NM
Kentucky	25,001	28,399	-12.0%	25,001	28,399	0	0	0	0	0	0
Mississippi	2,336	3,815	-38.8%	632	2,030	1,705	1,785	0	0	0	0
Tennessee	9,417	10,934	-13.9%	9,200	10,714	0	0	0	0	216	219
West South Central	52,666	73,530	-28.4%	25,900	38,530	26,737	34,917	0	0	29	83
Arkansas	9,201	12,090	-23.9%	7,081	9,493	2,099	2,572	0	0	20	24
Louisiana	2,110	5,360	-60.6%	1,842	3,176	268	2,183	0	0	0	0
Oklahoma	2,872	5,810	-50.6%	2,864	5,751	0	0	0	0	8	59
Texas	38,483	50,270	-23.4%	14,114	20,109	24,370	30,161	0	0	0	0
Mountain	54,069	64,220	-15.8%	46,437	56,493	7,436	7,503	0	0	195	223
Arizona	6,229	7,070	-11.9%	6,229	7,070	0	0	0	0	0	0
Colorado	10,255	12,138	-15.5%	10,255	12,138	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	6,327	6,184	2.3%	0	0	6,325	6,180	0	0	NM	NM
Nevada	1,035	1,531	-32.4%	507	850	528	681	0	0	0	0
New Mexico	4,880	7,870	-38.0%	4,880	7,870	0	0	0	0	0	0
Utah	9,226	12,068	-23.6%	9,012	11,831	214	237	0	0	0	0
Wyoming	16,109	17,350	-7.2%	15,554	16,734	369	407	0	0	186	210
Pacific Contiguous	2,386	1,746	36.7%	0	0	2,242	1,604	0	0	144	141
California	130	130	-0.5%	0	0	0	0	0	0	130	130
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,257	1,615	39.7%	0	0	2,242	1,604	0	0	14	11
Pacific Noncontiguous	425	977	-56.5%	264	248	91	671	70	58	0	0
Alaska	425	413	3.0%	264	248	91	106	70	58	0	0
Hawaii	0	564	-100.0%	0	0	0	564	0	0	0	0
U.S. Total	376,276	495,772	-24.1%	290,555	368,826	82,947	123,622	105	142	2,670	3,182

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	25	50	-50.4%	2	8	21	40	NM	NM	1	NM
Connecticut	NM	7	NM	1	NM	NM	NM	NM	NM	1	NM
Maine	5	3	59.3%	0	0	5	3	0	0	0	NM
Massachusetts	11	29	-60.7%	1	6	10	22	NM	NM	NM	NM
New Hampshire	3	9	-67.7%	0	0	2	9	1	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	0	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	40	39	2.5%	7	18	32	21	1	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
New York	34	30	11.8%	7	18	26	12	NM	NM	0	NM
Pennsylvania	7	9	-26.5%	0	0	6	8	1	0	NM	NM
East North Central	40	55	-27.2%	31	31	9	24	0	NM	1	1
Illinois	2	NM	NM	1	NM	1	NM	NM	0	0	0
Indiana	8	16	-48.7%	8	7	0	8	0	0	0	0
Michigan	10	7	44.0%	9	7	0	0	NM	NM	1	0
Ohio	9	16	-41.5%	1	NM	8	14	0	0	0	0
Wisconsin	NM	14	NM	NM	13	0	0	NM	NM	NM	NM
West North Central	45	63	-29.3%	43	62	NM	NM	0	0	0	0
Iowa	9	13	-31.2%	9	13	NM	NM	NM	0	NM	NM
Kansas	NM	10	NM	NM	10	0	0	0	0	0	0
Minnesota	NM	7	NM	NM	7	NM	NM	0	0	0	0
Missouri	10	19	-49.0%	10	19	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	3	1	194.5%	3	1	0	0	0	0	0	0
South Dakota	NM	8	NM	NM	8	0	0	NM	NM	0	0
South Atlantic	87	139	-37.2%	57	95	24	30	1	5	5	10
Delaware	2	NM	NM	0	0	2	NM	0	0	0	0
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	26	29	-9.6%	20	27	5	0	0	0	NM	NM
Georgia	NM	15	NM	NM	8	NM	NM	NM	1	2	6
Maryland	9	12	-25.2%	NM	1	9	12	0	NM	0	NM
North Carolina	12	11	3.3%	11	9	NM	NM	NM	NM	NM	NM
South Carolina	7	8	-3.6%	7	7	NM	0	0	0	0	0
Virginia	18	49	-63.0%	NM	29	8	16	1	4	1	NM
West Virginia	9	14	-39.7%	9	14	0	0	0	0	0	0
East South Central	13	18	-28.7%	12	16	NM	NM	0	0	NM	2
Alabama	NM	2	NM	NM	NM	NM	NM	0	0	NM	1
Kentucky	4	5	-26.8%	4	5	0	0	0	0	0	0
Mississippi	1	0	220.4%	1	0	0	0	0	0	0	0
Tennessee	8	11	-26.5%	8	11	0	0	0	0	0	0
West South Central	18	20	-12.7%	10	10	NM	10	NM	NM	1	NM
Arkansas	3	4	-12.3%	3	1	1	2	0	0	NM	NM
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	3	2	92.0%	3	1	0	0	0	0	0	0
Texas	NM	14	NM	NM	7	NM	NM	NM	NM	0	0
Mountain	12	22	-45.4%	11	21	0	0	NM	NM	0	0
Arizona	2	7	-68.1%	2	7	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	NM	0	NM	NM	NM	0	0	0	0	0	0
Nevada	1	1	139.6%	1	1	0	0	0	0	0	0
New Mexico	NM	2	NM	NM	2	0	0	0	0	0	0
Utah	3	2	51.4%	3	2	0	0	0	0	0	0
Wyoming	3	7	-62.1%	3	7	0	0	0	0	0	0
Pacific Contiguous	14	7	100.9%	3	3	1	2	0	NM	9	2
California	11	4	190.9%	3	3	0	1	0	NM	8	NM
Oregon	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Washington	2	3	-19.0%	NM	NM	1	1	0	0	1	1
Pacific Noncontiguous	674	591	14.1%	533	463	124	108	0	0	16	20
Alaska	70	71	-1.7%	65	67	0	0	NM	NM	5	4
Hawaii	604	520	16.3%	469	397	124	108	0	0	11	15
U.S. Total	968	1,004	-3.7%	709	727	219	235	5	7	34	35

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	258	1,155	-77.7%	21	23	214	1,104	13	NM	9	11
Connecticut	68	NM	NM	3	3	62	NM	NM	NM	3	NM
Maine	47	172	-72.6%	0	0	41	163	0	0	6	8
Massachusetts	69	563	-87.8%	18	17	48	541	NM	NM	0	1
New Hampshire	51	337	-84.8%	0	0	44	330	8	7	0	0
Rhode Island	22	NM	NM	0	0	20	NM	NM	NM	NM	NM
Vermont	NM	3	NM	NM	3	0	0	0	0	0	0
Middle Atlantic	330	1,197	-72.4%	95	519	217	664	6	NM	12	NM
New Jersey	35	25	42.4%	0	0	34	23	1	NM	0	1
New York	246	1,074	-77.1%	95	518	140	548	NM	NM	9	6
Pennsylvania	48	98	-50.6%	0	1	43	92	3	2	NM	NM
East North Central	310	347	-10.5%	225	238	75	103	1	1	10	NM
Illinois	20	29	-33.3%	8	8	12	22	NM	0	0	0
Indiana	58	72	-19.3%	52	63	5	8	0	0	1	0
Michigan	63	71	-11.3%	60	69	0	0	NM	NM	3	2
Ohio	71	86	-18.0%	11	12	57	73	0	0	3	1
Wisconsin	99	88	12.1%	95	85	1	1	0	NM	3	NM
West North Central	330	397	-16.9%	322	388	NM	NM	1	1	1	2
Iowa	54	68	-21.0%	52	66	2	2	0	0	NM	NM
Kansas	48	79	-40.0%	48	79	0	0	0	0	0	0
Minnesota	59	NM	NM	53	NM	NM	NM	1	1	1	2
Missouri	81	127	-36.0%	81	126	0	0	0	0	0	0
Nebraska	33	32	3.4%	33	32	0	0	0	0	0	0
North Dakota	34	17	96.8%	34	17	0	0	0	0	0	0
South Dakota	22	22	-2.0%	22	22	0	0	NM	NM	0	0
South Atlantic	487	926	-47.5%	363	696	59	145	8	26	57	60
Delaware	NM	NM	NM	0	4	NM	NM	0	0	0	0
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	129	295	-56.2%	115	277	6	8	0	0	8	10
Georgia	50	79	-37.2%	19	44	NM	NM	0	3	29	29
Maryland	26	58	-55.4%	-1	4	26	54	0	NM	NM	NM
North Carolina	52	92	-43.8%	37	79	NM	NM	NM	NM	13	9
South Carolina	59	66	-11.0%	52	57	3	3	0	0	4	7
Virginia	71	238	-70.1%	43	153	19	58	7	23	3	4
West Virginia	98	79	24.2%	98	79	0	0	0	0	0	0
East South Central	105	141	-25.8%	100	132	2	1	0	0	3	7
Alabama	4	11	-65.9%	NM	4	2	1	0	0	NM	6
Kentucky	36	46	-23.1%	36	46	0	0	0	0	0	0
Mississippi	4	4	3.3%	3	4	0	0	0	0	1	0
Tennessee	61	80	-23.1%	61	79	0	0	0	0	0	1
West South Central	106	155	-31.9%	74	NM	29	50	NM	NM	3	2
Arkansas	24	NM	NM	20	NM	4	8	0	0	NM	NM
Louisiana	4	5	-9.7%	4	5	0	0	0	0	0	0
Oklahoma	13	18	-31.4%	11	18	0	0	0	0	1	1
Texas	64	NM	NM	39	NM	24	43	NM	NM	1	1
Mountain	102	112	-9.0%	94	107	8	NM	NM	NM	0	0
Arizona	16	21	-21.5%	16	21	0	0	NM	NM	0	0
Colorado	20	14	36.8%	19	14	0	0	0	0	0	0
Idaho	0	0	-81.9%	0	0	0	0	0	0	0	0
Montana	6	NM	NM	NM	NM	6	NM	0	0	0	0
Nevada	4	5	-29.0%	3	4	1	1	0	0	0	0
New Mexico	6	18	-64.9%	6	18	0	0	0	0	0	0
Utah	20	17	18.5%	18	16	2	1	0	0	0	0
Wyoming	30	33	-9.3%	30	33	0	0	0	0	0	0
Pacific Contiguous	75	75	0.3%	27	21	8	39	1	NM	40	NM
California	53	56	-5.9%	20	20	4	33	1	0	28	3
Oregon	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Washington	22	NM	NM	7	NM	4	6	0	NM	11	NM
Pacific Noncontiguous	4,677	4,007	16.7%	3,731	3,190	820	698	4	0	122	119
Alaska	543	525	3.4%	510	497	0	0	1	-2	31	29
Hawaii	4,134	3,483	18.7%	3,221	2,692	820	698	3	2	91	91
U.S. Total	6,780	8,513	-20.4%	5,052	5,415	1,437	2,816	34	51	255	231

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 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	157	219	-28.4%	140	148	0	58	0	0	17	13
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	146	147	-1.0%	129	134	0	0	0	0	17	13
Ohio	0	58	-99.7%	0	0	0	58	0	0	0	0
Wisconsin	11	14	-20.3%	11	14	0	0	0	0	0	0
West North Central	0	1	-100.0%	0	0	0	0	0	1	0	0
Iowa	0	1	-100.0%	0	0	0	0	0	1	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	149	94	58.5%	149	86	0	0	0	0	0	NM
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	149	86	74.6%	149	86	0	0	0	0	0	0
Georgia	0	NM	NM	0	0	0	0	0	0	0	NM
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	200	163	23.1%	195	154	0	0	0	0	5	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	195	154	26.3%	195	154	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	5	8	-37.4%	0	0	0	0	0	0	5	8
Mountain	40	5	630.9%	0	0	40	5	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	40	5	630.9%	0	0	40	5	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	546	482	13.3%	484	388	40	64	0	1	22	30

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 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	763	1,374	-44.5%	569	791	101	503	0	0	93	81
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	635	775	-18.0%	543	694	0	0	0	0	93	81
Ohio	101	503	-80.0%	0	0	101	503	0	0	0	0
Wisconsin	27	96	-72.3%	27	96	0	0	0	0	0	0
West North Central	1	8	-81.9%	0	0	0	0	1	8	0	0
Iowa	1	8	-81.9%	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	693	525	31.8%	680	454	0	0	0	0	NM	72
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	680	454	49.9%	680	454	0	0	0	0	0	0
Georgia	NM	72	NM	0	0	0	0	0	0	NM	72
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	-100.0%	0	18	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	18	-100.0%	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	563	1,760	-68.0%	523	1,699	0	0	0	0	40	61
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	523	1,699	-69.2%	523	1,699	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	40	61	-34.4%	0	0	0	0	0	0	40	61
Mountain	278	250	11.1%	0	0	278	250	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	278	250	11.1%	0	0	278	250	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,297	3,935	-41.6%	1,772	2,961	378	752	1	8	145	213

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	6,473	6,709	-3.5%	NM	NM	6,227	6,412	104	92	105	153
Connecticut	2,622	2,690	-2.5%	4	3	2,527	2,600	32	29	59	57
Maine	414	427	-2.9%	0	0	396	361	3	3	16	63
Massachusetts	1,905	2,121	-10.2%	NM	NM	1,795	2,000	63	55	13	18
New Hampshire	642	593	8.1%	0	0	638	591	1	1	2	2
Rhode Island	890	878	1.3%	0	0	870	860	NM	4	14	13
Vermont	0	0	NM	0	0	0	0	0	0	0	0
Middle Atlantic	26,577	24,939	6.6%	1,627	1,522	24,452	22,947	107	98	391	371
New Jersey	4,488	4,620	-2.9%	NM	NM	4,399	4,527	23	24	40	43
New York	7,848	7,522	4.3%	1,600	1,491	6,124	5,922	70	60	54	50
Pennsylvania	14,241	12,796	11.3%	1	6	13,928	12,499	14	14	297	278
East North Central	25,090	20,775	20.8%	8,971	7,711	15,558	12,564	164	156	397	345
Illinois	4,792	3,460	38.5%	632	611	4,031	2,729	55	54	73	66
Indiana	3,728	3,111	19.8%	1,905	1,425	1,636	1,528	21	15	166	143
Michigan	5,772	4,802	20.2%	2,775	2,247	2,899	2,459	52	54	47	41
Ohio	8,104	6,873	17.9%	1,127	1,086	6,920	5,735	30	27	27	26
Wisconsin	2,694	2,529	6.5%	2,531	2,342	72	113	6	5	85	69
West North Central	5,910	4,510	31.0%	4,863	3,689	908	716	32	34	107	70
Iowa	1,237	905	36.6%	1,155	843	NM	NM	9	9	73	53
Kansas	634	578	9.6%	613	572	0	0	0	0	21	6
Minnesota	1,925	1,241	55.0%	1,355	806	552	419	10	10	8	6
Missouri	1,342	1,288	4.2%	970	974	356	297	13	15	3	2
Nebraska	279	195	43.1%	279	195	0	0	0	0	0	0
North Dakota	219	155	41.6%	219	154	0	0	0	0	0	0
South Dakota	274	147	86.8%	272	145	0	0	0	0	NM	NM
South Atlantic	44,636	45,323	-1.5%	37,069	37,619	7,049	7,275	59	35	460	395
Delaware	807	741	8.8%	7	13	714	673	0	0	85	55
District of Columbia	12	7	64.4%	0	0	0	0	12	7	0	0
Florida	21,011	20,685	1.6%	19,894	19,155	953	1,364	NM	NM	156	161
Georgia	6,210	6,808	-8.8%	4,758	5,081	1,381	1,662	0	0	71	65
Maryland	1,685	1,538	9.5%	566	530	1,089	992	26	11	4	NM
North Carolina	5,683	6,511	-12.7%	4,790	5,542	869	945	13	NM	10	13
South Carolina	2,515	2,903	-13.3%	2,428	2,659	76	235	0	0	11	9
Virginia	6,311	5,855	7.8%	4,548	4,550	1,689	1,236	0	1	74	68
West Virginia	402	275	46.2%	77	88	277	169	0	0	49	18
East South Central	15,613	16,619	-6.1%	11,884	12,331	3,407	3,977	18	18	303	293
Alabama	6,378	6,748	-5.5%	2,911	2,740	3,322	3,871	0	0	144	137
Kentucky	1,720	2,034	-15.4%	1,614	1,907	84	106	0	0	22	21
Mississippi	6,055	5,867	3.2%	6,005	5,824	0	0	0	0	50	43
Tennessee	1,460	1,970	-25.9%	1,355	1,860	0	0	18	18	87	92
West South Central	46,537	46,374	0.4%	18,250	18,413	22,369	22,057	104	111	5,814	5,792
Arkansas	2,789	2,871	-2.8%	2,643	2,729	125	120	NM	NM	17	18
Louisiana	7,425	7,959	-6.7%	4,733	5,226	574	635	NM	13	2,114	2,084
Oklahoma	5,738	5,356	7.1%	4,010	3,862	1,684	1,446	0	0	44	48
Texas	30,584	30,187	1.3%	6,863	6,595	19,985	19,855	97	95	3,639	3,642
Mountain	14,216	12,690	12.0%	11,017	9,879	3,010	2,642	40	37	149	132
Arizona	6,086	5,171	17.7%	4,209	3,497	1,865	1,661	13	13	0	0
Colorado	1,920	1,747	10.0%	1,582	1,497	323	234	1	1	14	14
Idaho	581	486	19.6%	358	298	209	178	3	3	11	NM
Montana	80	50	61.4%	70	NM	10	15	0	0	NM	NM
Nevada	2,963	2,868	3.3%	2,692	2,630	192	192	6	5	74	40
New Mexico	1,305	1,217	7.2%	879	853	402	354	10	NM	13	0
Utah	1,095	973	12.5%	1,068	941	NM	NM	7	4	11	19
Wyoming	186	179	3.8%	159	128	0	0	0	0	27	51
Pacific Contiguous	15,187	12,204	24.4%	5,907	4,720	8,288	6,510	121	139	871	835
California	11,149	9,506	17.3%	3,414	3,015	6,825	5,590	116	134	794	767
Oregon	2,143	1,344	59.5%	1,254	821	877	512	5	4	8	NM
Washington	1,894	1,354	39.9%	1,239	885	586	408	0	1	69	61
Pacific Noncontiguous	382	294	29.9%	376	288	0	0	0	0	6	6
Alaska	382	294	29.9%	376	288	0	0	0	0	6	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	200,621	190,437	5.3%	100,002	96,224	91,268	85,100	749	721	8,603	8,393

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	31,856	32,558	-2.2%	NM	90	30,507	31,027	551	543	728	898
Connecticut	14,197	13,917	2.0%	24	20	13,631	13,395	170	164	372	339
Maine	1,787	2,228	-19.8%	0	0	1,601	1,870	18	18	168	340
Massachusetts	8,735	9,547	-8.5%	NM	NM	8,269	9,033	333	328	86	116
New Hampshire	2,520	2,723	-7.5%	0	0	2,497	2,703	7	4	15	17
Rhode Island	4,617	4,141	11.5%	0	0	4,508	4,027	22	29	87	85
Vermont	1	1	-6.3%	0	0	0	0	1	1	0	0
Middle Atlantic	132,784	127,248	4.4%	6,703	6,470	123,139	118,002	572	577	2,370	2,199
New Jersey	18,027	18,475	-2.4%	78	72	17,579	18,084	115	122	255	198
New York	32,900	34,290	-4.1%	6,617	6,378	25,589	27,209	364	356	330	348
Pennsylvania	81,857	74,482	9.9%	8	19	79,971	72,709	93	99	1,785	1,654
East North Central	127,457	106,455	19.7%	45,168	35,922	78,812	67,151	940	874	2,537	2,507
Illinois	17,011	12,886	32.0%	1,795	1,711	14,513	10,505	289	257	415	413
Indiana	20,627	18,346	12.4%	10,155	7,438	9,302	9,758	120	89	1,049	1,062
Michigan	30,959	21,437	44.4%	13,264	8,540	16,990	12,208	357	359	348	330
Ohio	43,449	40,057	8.5%	5,476	5,622	37,665	34,111	141	134	168	190
Wisconsin	15,411	13,729	12.2%	14,478	12,612	342	570	33	35	557	512
West North Central	24,394	17,737	37.5%	19,090	13,777	4,310	3,255	325	208	670	497
Iowa	5,693	3,551	60.3%	5,221	3,189	NM	NM	69	53	403	309
Kansas	2,571	1,964	30.9%	2,426	1,899	0	0	0	0	145	65
Minnesota	8,678	6,099	42.3%	5,675	3,796	2,867	2,163	62	67	74	73
Missouri	4,378	4,240	3.3%	2,717	3,033	1,442	1,093	193	87	26	27
Nebraska	959	552	73.7%	958	552	0	0	1	0	0	0
North Dakota	1,075	780	37.9%	1,070	771	0	0	0	0	5	8
South Dakota	1,039	551	88.7%	1,022	536	0	0	0	0	17	14
South Atlantic	235,931	230,317	2.4%	197,460	193,700	35,072	33,570	370	308	3,029	2,739
Delaware	2,678	2,407	11.2%	10	24	2,036	1,924	0	0	631	460
District of Columbia	69	57	21.3%	0	0	0	0	69	57	0	0
Florida	111,726	110,933	0.7%	105,852	104,091	4,910	5,815	45	41	920	986
Georgia	36,142	34,632	4.4%	28,687	26,859	7,002	7,333	0	0	454	439
Maryland	8,860	7,795	13.7%	2,719	2,210	5,949	5,431	163	125	29	30
North Carolina	30,610	31,794	-3.7%	25,314	26,692	5,124	4,925	80	79	93	98
South Carolina	14,070	14,001	0.5%	13,718	13,222	266	705	0	0	85	74
Virginia	29,885	27,531	8.5%	20,853	20,309	8,546	6,757	14	7	472	459
West Virginia	1,892	1,167	62.1%	308	293	1,240	680	0	0	344	195
East South Central	85,056	87,191	-2.4%	61,808	62,930	21,110	22,145	118	113	2,020	2,001
Alabama	35,280	36,472	-3.3%	13,428	13,837	20,893	21,702	0	0	959	933
Kentucky	8,323	9,910	-16.0%	7,961	9,326	213	434	0	0	148	150
Mississippi	32,319	30,290	6.7%	31,981	29,990	4	5	0	0	334	296
Tennessee	9,135	10,519	-13.2%	8,437	9,778	0	6	118	113	579	622
West South Central	235,308	217,829	8.0%	87,734	81,950	109,325	97,589	455	496	37,795	37,794
Arkansas	14,680	13,719	7.0%	13,883	12,755	662	786	23	NM	111	155
Louisiana	41,654	42,950	-3.0%	24,684	26,652	2,849	1,950	31	80	14,090	14,268
Oklahoma	25,923	19,988	29.7%	17,378	13,369	8,239	6,338	0	0	305	282
Texas	153,052	141,172	8.4%	31,788	29,175	97,574	88,515	401	393	23,289	23,089
Mountain	70,631	60,167	17.4%	55,732	46,613	13,756	12,428	242	238	901	888
Arizona	27,967	23,937	16.8%	19,743	16,585	8,153	7,275	72	77	0	0
Colorado	9,892	8,429	17.4%	8,330	7,296	1,467	1,031	1	2	93	99
Idaho	2,642	2,132	23.9%	1,516	1,157	1,031	888	23	22	71	65
Montana	531	217	144.6%	455	178	75	37	0	0	NM	NM
Nevada	13,991	13,320	5.0%	12,975	11,857	723	1,256	38	35	254	172
New Mexico	7,621	5,366	42.0%	5,280	3,409	2,252	1,879	63	70	26	9
Utah	6,749	5,934	13.7%	6,580	5,684	55	61	44	32	69	158
Wyoming	1,239	831	49.0%	853	448	0	0	0	0	385	383
Pacific Contiguous	69,944	61,873	13.0%	27,813	23,143	35,817	31,824	829	912	5,485	5,993
California	47,799	46,101	3.7%	14,171	13,708	27,874	26,005	800	876	4,954	5,512
Oregon	12,380	9,265	33.6%	7,013	5,172	5,274	4,022	29	26	64	45
Washington	9,765	6,506	50.1%	6,629	4,263	2,669	1,798	0	10	467	435
Pacific Noncontiguous	1,915	1,501	27.6%	1,876	1,459	0	0	0	0	39	42
Alaska	1,915	1,501	27.6%	1,876	1,459	0	0	0	0	39	42
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,015,276	942,875	7.7%	503,454	466,055	451,847	416,993	4,401	4,269	55,573	55,558

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

Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2013-July 2023 (Thousand Megawatthours)

	Natural Gas					
Period	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	Total
Annual Factors						
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	1,411,602	156,196	112,763	8,805	98	1,689,465
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	116,776	10,896	7,076	657	4	135,409
February	100,118	8,602	6,273	541	3	115,538
March	97,515	8,307	5,469	511	4	111,806
April	89,892	9,488	5,788	555	5	105,729
May	105,305	12,710	9,076	614	9	127,714
June	126,518	16,659	12,262	791	12	156,242
July	150,382	21,999	16,997	1,041	18	190,437
August	153,777	19,855	14,455	1,095	14	189,197
Sept	131,199	13,748	10,467	862	10	156,286
October	112,874	10,446	9,020	679	7	133,025
November	106,917	11,125	8,224	672	7	126,944
December	120,329	12,361	7,655	787	6	141,138
Year 2023						
January	121,415	9,149	6,465	698	4	137,731
February	110,152	7,971	5,695	607	4	124,428
March	114,418	9,923	6,878	762	6	131,987
April	100,204	11,613	8,423	693	8	120,941
May	113,788	13,571	9,659	686	10	137,714
June	132,521	16,378	12,082	858	14	161,853
July	158,945	22,592	17,878	1,190	16	200,621

Values for 2021 and prior years are final. Values for 2022 and 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, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 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	55	70	-21.6%	0	0	7	0	0	0	48	70
New Jersey	19	9	111.9%	0	0	7	0	0	0	12	9
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	36	61	-41.4%	0	0	0	0	0	0	36	61
East North Central	382	479	-20.3%	0	0	170	218	0	0	212	261
Illinois	23	24	-4.8%	0	0	0	0	0	0	23	24
Indiana	170	235	-27.6%	0	0	0	0	0	0	170	235
Michigan	122	146	-16.1%	0	0	122	146	0	0	0	0
Ohio	67	75	-10.3%	0	0	48	72	0	0	19	3
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	2	3	-23.7%	0	0	0	0	0	0	2	3
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	3	-23.7%	0	0	0	0	0	0	2	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	22	23	-6.6%	0	0	0	0	0	0	22	23
Delaware	21	21	1.0%	0	0	0	0	0	0	21	21
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-80.8%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	1	2	-72.4%	0	0	0	0	0	0	1	2
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	60.6%	0	0	0	0	0	0	1	1
West South Central	388	400	-3.0%	0	0	117	141	0	0	271	259
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	160	179	-10.9%	0	0	0	0	0	0	160	179
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	228	221	3.5%	0	0	117	141	0	0	111	80
Mountain	13	32	-60.4%	0	0	1	0	0	0	12	32
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	NM	NM	0	0	0	0	0	0	NM	NM
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	NM	NM	NM	0	0	1	0	0	0	NM	NM
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	2	-95.0%	0	0	0	0	0	0	0	2
Wyoming	10	29	-64.1%	0	0	0	0	0	0	10	29
Pacific Contiguous	151	125	20.2%	0	0	0	0	0	0	151	125
California	130	101	28.9%	0	0	0	0	0	0	130	101
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	20	24	-16.2%	0	0	0	0	0	0	20	24
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	1,014	1,133	-10.6%	0	0	296	358	0	0	718	775

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 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	313	367	-14.6%	0	0	14	0	0	0	300	367
New Jersey	90	67	33.9%	0	0	14	0	0	0	77	67
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	223	299	-25.5%	0	0	0	0	0	0	223	299
East North Central	2,422	2,572	-5.8%	0	0	1,056	1,104	0	0	1,365	1,468
Illinois	140	145	-3.8%	0	0	0	0	0	0	140	145
Indiana	1,139	1,280	-11.0%	0	0	0	0	0	0	1,139	1,280
Michigan	777	744	4.5%	0	0	777	744	0	0	0	0
Ohio	366	403	-9.2%	0	0	280	360	0	0	86	43
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	15	19	-20.0%	0	0	0	0	0	0	15	19
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	15	19	-20.0%	0	0	0	0	0	0	15	19
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	123	131	-5.8%	0	0	0	0	0	0	123	131
Delaware	99	106	-6.1%	0	0	0	0	0	0	99	106
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-51.7%	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	24	25	-4.6%	0	0	0	0	0	0	24	25
East South Central	7	8	-6.1%	0	0	0	0	0	0	7	8
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	6	7	-6.4%	0	0	0	0	0	0	6	7
West South Central	2,361	2,624	-10.0%	0	0	712	959	0	0	1,649	1,665
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,053	1,080	-2.5%	0	0	0	0	0	0	1,053	1,080
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,308	1,544	-15.3%	0	0	712	959	0	0	596	585
Mountain	208	211	-1.0%	0	0	6	2	0	0	202	209
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	NM	NM	0	0	0	0	0	0	NM	NM
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	NM	3	NM	0	0	6	2	0	0	NM	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	3	-62.2%	0	0	0	0	0	0	1	3
Wyoming	195	200	-2.5%	0	0	0	0	0	0	195	200
Pacific Contiguous	999	893	11.8%	0	0	0	0	0	0	999	893
California	865	752	15.0%	0	0	0	0	0	0	865	752
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	134	141	-5.3%	0	0	0	0	0	0	134	141
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,449	6,823	-5.5%	0	0	1,788	2,065	0	0	4,661	4,759

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	2,331	2,479	-6.0%	0	0	2,331	2,479	0	0	0	0
Connecticut	1,443	1,551	-7.0%	0	0	1,443	1,551	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	888	928	-4.3%	0	0	888	928	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	11,535	11,617	-0.7%	0	0	11,535	11,617	0	0	0	0
New Jersey	2,552	2,552	0.0%	0	0	2,552	2,552	0	0	0	0
New York	2,386	2,380	0.3%	0	0	2,386	2,380	0	0	0	0
Pennsylvania	6,596	6,685	-1.3%	0	0	6,596	6,685	0	0	0	0
East North Central	13,460	13,331	1.0%	2,365	2,433	11,095	10,898	0	0	0	0
Illinois	8,626	8,452	2.1%	0	0	8,626	8,452	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,365	2,433	-2.8%	2,365	2,433	0	0	0	0	0	0
Ohio	1,585	1,556	1.9%	0	0	1,585	1,556	0	0	0	0
Wisconsin	884	891	-0.8%	0	0	884	891	0	0	0	0
West North Central	3,598	3,453	4.2%	3,598	3,453	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	870	763	14.0%	870	763	0	0	0	0	0	0
Minnesota	1,260	1,259	0.1%	1,260	1,259	0	0	0	0	0	0
Missouri	891	890	0.1%	891	890	0	0	0	0	0	0
Nebraska	577	541	6.7%	577	541	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	18,601	18,480	0.7%	17,312	17,195	1,289	1,285	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	2,714	2,756	-1.5%	2,714	2,756	0	0	0	0	0	0
Georgia	3,167	3,000	5.6%	3,167	3,000	0	0	0	0	0	0
Maryland	1,289	1,285	0.3%	0	0	1,289	1,285	0	0	0	0
North Carolina	3,843	3,854	-0.3%	3,843	3,854	0	0	0	0	0	0
South Carolina	4,944	4,933	0.2%	4,944	4,933	0	0	0	0	0	0
Virginia	2,644	2,651	-0.3%	2,644	2,651	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	8,403	7,426	13.2%	8,403	7,426	0	0	0	0	0	0
Alabama	4,010	3,962	1.2%	4,010	3,962	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,019	166	515.0%	1,019	166	0	0	0	0	0	0
Tennessee	3,374	3,298	2.3%	3,374	3,298	0	0	0	0	0	0
West South Central	6,575	6,612	-0.6%	2,914	2,924	3,661	3,688	0	0	0	0
Arkansas	1,341	1,355	-1.0%	1,341	1,355	0	0	0	0	0	0
Louisiana	1,573	1,569	0.3%	1,573	1,569	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,661	3,688	-0.7%	0	0	3,661	3,688	0	0	0	0
Mountain	2,876	2,933	-2.0%	2,876	2,933	0	0	0	0	0	0
Arizona	2,876	2,933	-2.0%	2,876	2,933	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	2,509	2,525	-0.6%	2,509	2,525	0	0	0	0	0	0
California	1,678	1,684	-0.3%	1,678	1,684	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	831	841	-1.2%	831	841	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	69,888	68,857	1.5%	39,977	38,888	29,910	29,969	0	0	0	0

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	12,888	15,120	-14.8%	0	0	12,888	15,120	0	0	0	0
Connecticut	7,781	8,773	-11.3%	0	0	7,781	8,773	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	5,107	6,347	-19.5%	0	0	5,107	6,347	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	75,861	76,459	-0.8%	0	0	75,861	76,459	0	0	0	0
New Jersey	16,902	16,621	1.7%	0	0	16,902	16,621	0	0	0	0
New York	15,772	15,790	-0.1%	0	0	15,772	15,790	0	0	0	0
Pennsylvania	43,188	44,048	-2.0%	0	0	43,188	44,048	0	0	0	0
East North Central	87,664	87,511	0.2%	17,157	12,376	70,507	75,135	0	0	0	0
Illinois	56,367	57,036	-1.2%	0	0	56,367	57,036	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	17,157	15,106	13.6%	17,157	12,376	0	2,730	0	0	0	0
Ohio	8,447	9,688	-12.8%	0	0	8,447	9,688	0	0	0	0
Wisconsin	5,693	5,681	0.2%	0	0	5,693	5,681	0	0	0	0
West North Central	23,720	22,961	3.3%	23,720	22,961	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	5,962	5,928	0.6%	5,962	5,928	0	0	0	0	0	0
Minnesota	7,889	8,700	-9.3%	7,889	8,700	0	0	0	0	0	0
Missouri	5,851	4,384	33.5%	5,851	4,384	0	0	0	0	0	0
Nebraska	4,017	3,948	1.7%	4,017	3,948	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	119,329	120,209	-0.7%	110,736	111,735	8,593	8,474	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	17,568	17,941	-2.1%	17,568	17,941	0	0	0	0	0	0
Georgia	19,739	19,099	3.4%	19,739	19,099	0	0	0	0	0	0
Maryland	8,593	8,474	1.4%	0	0	8,593	8,474	0	0	0	0
North Carolina	24,348	24,231	0.5%	24,348	24,231	0	0	0	0	0	0
South Carolina	31,668	32,884	-3.7%	31,668	32,884	0	0	0	0	0	0
Virginia	17,413	17,581	-1.0%	17,413	17,581	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	55,126	49,390	11.6%	55,126	49,390	0	0	0	0	0	0
Alabama	26,216	25,706	2.0%	26,216	25,706	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	7,131	4,011	77.8%	7,131	4,011	0	0	0	0	0	0
Tennessee	21,779	19,673	10.7%	21,779	19,673	0	0	0	0	0	0
West South Central	38,899	42,475	-8.4%	15,720	17,903	23,179	24,572	0	0	0	0
Arkansas	8,266	9,413	-12.2%	8,266	9,413	0	0	0	0	0	0
Louisiana	7,454	8,490	-12.2%	7,454	8,490	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	23,179	24,572	-5.7%	0	0	23,179	24,572	0	0	0	0
Mountain	18,233	18,579	-1.9%	18,233	18,579	0	0	0	0	0	0
Arizona	18,233	18,579	-1.9%	18,233	18,579	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	15,604	16,122	-3.2%	15,604	16,122	0	0	0	0	0	0
California	11,286	10,479	7.7%	11,286	10,479	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,318	5,643	-23.5%	4,318	5,643	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	447,324	448,826	-0.3%	256,297	249,066	191,027	199,760	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	445	292	52.4%	53	31	385	258	0	0	NM	NM
Connecticut	39	24	58.4%	6	NM	33	24	0	0	0	0
Maine	182	120	51.3%	0	0	177	118	0	0	NM	NM
Massachusetts	83	67	24.0%	21	19	62	48	0	0	0	0
New Hampshire	61	33	86.3%	NM	NM	60	32	0	0	0	0
Rhode Island	NM	0	NM	0	0	NM	0	0	0	0	0
Vermont	80	48	67.3%	26	NM	53	36	0	0	0	0
Middle Atlantic	2,563	2,394	7.1%	2,013	2,031	546	360	0	0	3	3
New Jersey	2	0	--	0	0	2	0	0	0	0	0
New York	2,339	2,266	3.2%	2,008	2,029	327	234	0	0	3	3
Pennsylvania	223	128	74.2%	5	2	218	125	0	0	0	0
East North Central	346	486	-28.8%	305	437	31	38	NM	NM	NM	10
Illinois	7	9	-21.0%	5	5	NM	NM	0	0	0	0
Indiana	29	NM	NM	28	18	0	0	NM	NM	0	0
Michigan	103	163	-36.8%	97	155	NM	NM	0	0	NM	NM
Ohio	43	35	24.8%	28	23	15	NM	0	0	0	0
Wisconsin	164	260	-37.0%	147	236	NM	NM	0	0	NM	9
West North Central	877	1,259	-30.3%	856	1,224	NM	29	0	0	4	6
Iowa	73	130	-43.5%	73	129	0	1	0	0	0	0
Kansas	1	4	-70.6%	0	0	1	4	0	0	0	0
Minnesota	53	82	-35.6%	NM	52	NM	25	0	0	4	6
Missouri	115	73	57.2%	115	73	0	0	0	0	0	0
Nebraska	88	138	-35.9%	88	138	0	0	0	0	0	0
North Dakota	154	240	-35.7%	154	240	0	0	0	0	0	0
South Dakota	392	593	-33.8%	392	593	0	0	0	0	0	0
South Atlantic	1,174	662	77.2%	918	511	214	116	1	1	41	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	20	18	8.0%	20	18	0	0	0	0	0	0
Georgia	259	135	92.3%	257	132	NM	NM	0	0	NM	NM
Maryland	106	40	164.4%	0	0	106	40	0	0	0	0
North Carolina	407	276	47.2%	338	224	67	51	1	1	NM	NM
South Carolina	152	39	289.1%	147	NM	NM	NM	0	0	0	0
Virginia	102	47	119.0%	94	43	8	NM	0	0	0	0
West Virginia	128	107	19.5%	62	57	27	18	0	0	39	32
East South Central	1,966	1,400	40.4%	1,894	1,343	72	57	0	0	0	0
Alabama	753	473	59.2%	753	473	0	0	0	0	0	0
Kentucky	404	299	35.4%	402	297	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	809	629	28.7%	739	573	71	55	0	0	0	0
West South Central	634	375	68.9%	539	287	96	88	0	0	0	0
Arkansas	286	149	92.7%	280	143	NM	NM	0	0	0	0
Louisiana	85	79	8.5%	0	0	85	79	0	0	0	0
Oklahoma	198	122	62.0%	198	122	0	0	0	0	0	0
Texas	65	26	147.2%	61	22	4	4	0	0	0	0
Mountain	2,477	3,151	-21.4%	2,380	3,020	93	125	NM	NM	0	0
Arizona	721	564	27.9%	721	564	0	0	0	0	0	0
Colorado	142	189	-24.9%	121	163	NM	NM	2	2	0	0
Idaho	634	954	-33.5%	576	871	57	82	0	0	0	0
Montana	715	1,119	-36.1%	706	1,106	NM	NM	0	0	0	0
Nevada	145	163	-10.6%	141	158	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	NM	56	NM	NM	52	0	0	NM	NM	0	0
Wyoming	65	94	-30.6%	63	92	2	2	0	0	0	0
Pacific Contiguous	10,879	13,954	-22.0%	10,638	13,782	240	172	NM	NM	0	0
California	3,465	1,857	86.6%	3,268	1,751	197	105	NM	NM	0	0
Oregon	1,807	3,137	-42.4%	1,791	3,113	NM	NM	0	0	0	0
Washington	5,606	8,960	-37.4%	5,579	8,917	NM	NM	0	0	0	0
Pacific Noncontiguous	139	219	-36.4%	119	187	1	2	NM	NM	NM	NM
Alaska	132	209	-36.9%	118	187	0	0	NM	NM	0	0
Hawaii	NM	NM	NM	1	1	1	2	0	0	NM	NM
U.S. Total	21,500	24,193	-11.1%	19,715	22,854	1,696	1,246	NM	31	68	63

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	3,333	3,481	-4.2%	383	392	2,906	3,043	3	3	41	43
Connecticut	259	266	-2.9%	24	22	235	244	0	0	0	0
Maine	1,340	1,408	-4.8%	NM	NM	1,298	1,364	0	0	41	43
Massachusetts	604	625	-3.3%	158	164	443	458	3	3	0	0
New Hampshire	541	574	-5.8%	NM	NM	535	568	0	0	0	0
Rhode Island	NM	2	NM	0	0	NM	2	0	0	0	0
Vermont	584	605	-3.4%	194	198	390	406	0	0	0	0
Middle Atlantic	17,655	18,214	-3.1%	13,671	14,068	3,947	4,119	4	4	33	24
New Jersey	7	5	46.3%	0	0	7	5	0	0	0	0
New York	16,005	16,477	-2.9%	13,618	14,005	2,349	2,444	4	4	33	24
Pennsylvania	1,644	1,733	-5.1%	52	63	1,591	1,670	0	0	0	0
East North Central	2,439	3,133	-22.2%	2,142	2,782	222	280	NM	NM	68	67
Illinois	49	67	-27.6%	34	32	15	35	0	0	0	0
Indiana	210	214	-2.2%	203	211	0	0	NM	NM	0	0
Michigan	714	971	-26.5%	672	919	36	46	0	0	NM	NM
Ohio	308	319	-3.5%	198	205	109	114	0	0	0	0
Wisconsin	1,159	1,561	-25.8%	1,035	1,414	61	86	0	0	62	62
West North Central	6,214	8,121	-23.5%	6,056	7,914	120	168	0	0	38	40
Iowa	567	771	-26.4%	564	767	4	4	0	0	0	0
Kansas	10	18	-44.3%	0	0	10	18	0	0	0	0
Minnesota	379	502	-24.4%	235	316	106	146	0	0	38	40
Missouri	848	942	-9.9%	848	942	0	0	0	0	0	0
Nebraska	613	829	-26.0%	613	829	0	0	0	0	0	0
North Dakota	1,070	1,443	-25.8%	1,070	1,443	0	0	0	0	0	0
South Dakota	2,726	3,617	-24.6%	2,726	3,617	0	0	0	0	0	0
South Atlantic	9,296	9,780	-5.0%	7,045	7,379	1,953	2,091	9	7	289	302
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	137	141	-2.8%	137	141	0	0	0	0	0	0
Georgia	1,975	2,080	-5.0%	1,956	2,058	NM	NM	0	0	9	12
Maryland	1,153	1,263	-8.7%	0	0	1,153	1,263	0	0	0	0
North Carolina	3,053	3,181	-4.0%	2,562	2,671	481	499	7	7	NM	NM
South Carolina	1,327	1,426	-7.0%	1,288	1,383	38	43	1	0	0	0
Virginia	729	737	-1.1%	666	677	63	60	0	0	0	0
West Virginia	921	951	-3.2%	436	448	209	217	0	0	277	287
East South Central	14,345	14,849	-3.4%	13,830	14,315	515	534	0	0	0	0
Alabama	5,953	6,308	-5.6%	5,953	6,308	0	0	0	0	0	0
Kentucky	2,582	2,516	2.6%	2,569	2,503	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5,811	6,025	-3.6%	5,309	5,505	502	521	0	0	0	0
West South Central	4,793	4,953	-3.2%	4,133	4,274	660	678	NM	NM	0	0
Arkansas	2,119	2,188	-3.2%	2,084	2,154	35	35	0	0	0	0
Louisiana	600	617	-2.8%	0	0	600	617	0	0	0	0
Oklahoma	1,446	1,507	-4.0%	1,446	1,507	0	0	0	0	0	0
Texas	628	640	-1.9%	603	613	25	26	NM	NM	0	0
Mountain	15,860	19,448	-18.4%	15,213	18,639	621	774	NM	35	0	0
Arizona	3,829	3,591	6.6%	3,829	3,591	0	0	0	0	0	0
Colorado	987	1,154	-14.5%	862	1,007	119	139	6	9	0	0
Idaho	4,403	5,829	-24.5%	4,002	5,313	400	515	0	0	0	0
Montana	4,964	6,717	-26.1%	4,904	6,638	59	80	0	0	0	0
Nevada	846	1,115	-24.1%	817	1,084	29	30	0	0	0	0
New Mexico	79	92	-14.7%	79	92	0	0	0	0	0	0
Utah	308	372	-17.4%	279	342	8	4	NM	NM	0	0
Wyoming	446	578	-23.0%	440	573	5	6	0	0	0	0
Pacific Contiguous	75,042	84,893	-11.6%	73,540	83,865	1,488	1,022	NM	NM	0	0
California	20,807	10,907	90.8%	19,608	10,284	1,185	617	NM	NM	0	0
Oregon	15,466	20,930	-26.1%	15,353	20,782	113	148	0	0	0	0
Washington	38,770	53,056	-26.9%	38,579	52,799	190	258	0	0	0	0
Pacific Noncontiguous	979	1,329	-26.3%	830	1,125	16	24	94	128	40	51
Alaska	919	1,249	-26.4%	826	1,120	0	0	94	128	0	0
Hawaii	60	81	-26.0%	4	5	16	24	0	0	40	51
U.S. Total	149,956	168,202	-10.8%	136,843	154,753	12,447	12,733	157	188	508	528

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	1,021	1,158	-11.8%	66	73	856	1,008	46	11	53	65
Connecticut	102	113	-9.0%	0	0	101	112	NM	NM	NM	NM
Maine	321	411	-21.9%	0	0	268	345	0	2	52	64
Massachusetts	325	310	4.7%	10	13	272	291	42	5	NM	NM
New Hampshire	102	138	-26.4%	0	0	98	134	3	4	0	0
Rhode Island	79	80	-2.2%	0	0	78	80	0	0	0	0
Vermont	93	106	-11.8%	56	60	38	46	0	0	0	0
Middle Atlantic	1,292	1,297	-0.4%	24	12	1,094	1,168	125	60	49	56
New Jersey	241	225	6.9%	13	12	182	184	45	28	NM	NM
New York	715	687	4.1%	11	0	632	652	60	20	13	16
Pennsylvania	336	385	-12.7%	0	0	280	333	20	12	36	40
East North Central	3,115	3,446	-9.6%	629	574	2,380	2,751	12	12	94	110
Illinois	1,085	1,360	-20.3%	9	16	1,075	1,344	NM	NM	0	0
Indiana	657	632	3.9%	190	78	462	549	0	0	6	5
Michigan	717	835	-14.1%	216	299	454	477	4	4	43	54
Ohio	312	305	2.4%	NM	NM	288	279	1	1	22	24
Wisconsin	344	314	9.5%	213	180	101	102	6	6	24	26
West North Central	6,781	8,248	-17.8%	2,152	2,707	4,553	5,452	16	24	60	65
Iowa	1,762	2,334	-24.5%	1,228	1,702	526	624	NM	2	7	7
Kansas	1,734	2,005	-13.5%	190	148	1,542	1,856	NM	NM	NM	NM
Minnesota	1,025	1,139	-10.0%	237	270	729	800	8	15	51	55
Missouri	331	404	-18.1%	136	148	190	250	4	6	0	0
Nebraska	574	744	-22.9%	13	13	560	731	2	1	0	0
North Dakota	831	937	-11.3%	269	326	562	610	0	0	0	NM
South Dakota	524	685	-23.5%	80	101	443	582	0	0	NM	2
South Atlantic	5,979	5,683	5.2%	1,789	1,598	3,402	3,179	97	43	691	862
Delaware	24	13	76.5%	NM	NM	22	11	NM	NM	NM	NM
District of Columbia	8	8	7.3%	NM	0	NM	3	5	4	0	0
Florida	1,643	1,511	8.7%	1,295	1,109	176	235	42	15	131	152
Georgia	1,237	1,220	1.4%	65	65	888	802	NM	NM	284	352
Maryland	162	134	20.9%	NM	NM	158	130	NM	3	0	0
North Carolina	1,451	1,378	5.3%	86	81	1,273	1,181	13	12	79	105
South Carolina	451	439	2.8%	5	5	333	295	0	0	113	139
Virginia	895	870	2.9%	336	337	440	411	35	9	84	113
West Virginia	108	111	-2.1%	0	0	108	111	0	0	0	0
East South Central	768	738	4.1%	35	16	310	229	NM	NM	423	492
Alabama	393	383	2.5%	3	3	132	92	0	0	258	289
Kentucky	44	41	6.6%	13	13	11	1	NM	0	20	27
Mississippi	171	167	2.2%	19	0	46	48	0	0	106	119
Tennessee	161	146	9.9%	NM	NM	121	88	NM	NM	39	58
West South Central	16,588	15,456	7.3%	340	301	15,949	14,789	3	6	297	360
Arkansas	124	160	-22.6%	21	NM	47	79	2	3	53	76
Louisiana	199	205	-2.9%	4	4	37	19	0	0	158	182
Oklahoma	2,896	3,025	-4.3%	241	220	2,635	2,778	-1	0	20	27
Texas	13,369	12,066	10.8%	74	75	13,229	11,913	NM	3	65	75
Mountain	7,103	6,239	13.8%	1,027	1,019	6,027	5,133	14	49	34	37
Arizona	991	856	15.8%	65	74	920	777	3	3	NM	NM
Colorado	1,606	1,512	6.2%	301	333	1,304	1,178	NM	NM	0	0
Idaho	286	273	4.7%	42	12	213	228	3	3	28	31
Montana	280	192	45.8%	47	62	231	129	0	0	2	2
Nevada	1,464	1,285	13.9%	21	19	1,436	1,223	6	42	NM	NM
New Mexico	1,410	1,074	31.4%	284	236	1,127	837	NM	NM	0	0
Utah	578	530	9.1%	19	20	559	510	1	1	0	0
Wyoming	487	517	-5.8%	249	265	238	252	0	0	0	0
Pacific Contiguous	9,386	8,978	4.5%	663	663	8,437	8,000	91	87	195	228
California	7,489	7,255	3.2%	207	230	7,118	6,854	87	82	77	88
Oregon	1,248	1,074	16.3%	181	141	1,022	875	3	3	42	54
Washington	649	650	0.0%	275	292	298	271	NM	NM	75	86
Pacific Noncontiguous	191	193	-0.8%	13	15	160	159	19	18	0	0
Alaska	10	12	-14.1%	NM	6	NM	NM	3	3	0	0
Hawaii	181	181	0.1%	8	10	157	156	16	15	0	0
U.S. Total	52,224	51,436	1.5%	6,738	6,980	43,167	41,869	423	312	1,897	2,275

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	7,224	7,805	-7.4%	369	428	6,382	6,897	105	98	368	382
Connecticut	635	699	-9.1%	0	0	629	696	2	2	NM	NM
Maine	2,850	3,064	-7.0%	0	0	2,484	2,663	5	22	361	379
Massachusetts	1,911	1,968	-2.9%	73	89	1,763	1,834	72	42	4	3
New Hampshire	742	892	-16.8%	0	0	721	865	21	27	0	0
Rhode Island	516	524	-1.4%	0	0	513	519	4	5	0	0
Vermont	569	659	-13.7%	296	339	272	320	1	1	0	0
Middle Atlantic	9,989	10,023	-0.3%	187	75	8,990	9,189	484	393	327	366
New Jersey	1,389	1,410	-1.5%	69	75	1,102	1,142	216	189	3	3
New York	5,406	5,230	3.4%	118	0	5,022	5,000	185	124	82	106
Pennsylvania	3,193	3,383	-5.6%	0	0	2,866	3,047	84	80	242	256
East North Central	32,866	34,663	-5.2%	4,922	4,978	27,192	28,791	87	100	665	794
Illinois	14,171	15,191	-6.7%	64	113	14,102	15,072	NM	6	0	0
Indiana	6,693	6,864	-2.5%	659	467	5,993	6,349	3	11	38	36
Michigan	6,952	7,364	-5.6%	2,715	3,048	3,907	3,911	25	25	305	381
Ohio	2,603	2,901	-10.2%	10	9	2,426	2,696	10	10	157	185
Wisconsin	2,447	2,344	4.4%	1,474	1,341	764	764	44	48	165	191
West North Central	76,126	84,419	-9.8%	27,638	30,551	47,939	53,259	112	160	438	449
Iowa	24,613	27,219	-9.6%	17,591	20,195	6,976	6,969	7	14	38	41
Kansas	15,855	18,462	-14.1%	1,516	1,257	14,325	17,189	NM	10	NM	NM
Minnesota	10,028	10,501	-4.5%	2,746	2,754	6,850	7,263	52	100	379	384
Missouri	4,196	4,684	-10.4%	1,696	1,806	2,465	2,850	33	26	2	2
Nebraska	7,292	7,351	-0.8%	107	107	7,174	7,233	11	11	0	0
North Dakota	8,683	10,038	-13.5%	3,126	3,485	5,555	6,549	0	0	NM	4
South Dakota	5,461	6,166	-11.4%	857	947	4,592	5,206	0	0	11	12
South Atlantic	37,180	35,945	3.4%	11,098	9,802	20,410	20,160	516	295	5,155	5,687
Delaware	143	86	67.0%	4	4	129	70	4	5	6	7
District of Columbia	54	53	2.3%	NM	0	18	18	35	35	0	0
Florida	10,755	9,521	13.0%	8,306	6,901	1,336	1,478	148	95	964	1,046
Georgia	7,606	7,663	-0.7%	382	430	5,176	4,963	NM	NM	2,046	2,267
Maryland	1,048	944	11.1%	5	5	1,028	923	15	16	0	0
North Carolina	8,276	8,607	-3.8%	470	505	7,157	7,345	68	72	582	685
South Carolina	2,770	2,842	-2.5%	34	36	1,861	1,874	0	0	875	932
Virginia	5,229	5,002	4.5%	1,897	1,921	2,407	2,262	244	70	681	749
West Virginia	1,298	1,228	5.7%	0	0	1,298	1,228	0	0	0	0
East South Central	4,779	4,627	3.3%	211	102	1,650	1,356	3	3	2,915	3,165
Alabama	2,508	2,454	2.2%	15	16	706	581	0	0	1,787	1,857
Kentucky	299	269	11.1%	83	84	72	10	NM	0	143	175
Mississippi	1,111	1,070	3.8%	111	0	260	310	0	0	739	761
Tennessee	861	833	3.3%	NM	2	612	456	3	3	245	373
West South Central	114,980	113,334	1.5%	1,831	1,941	110,974	108,974	40	47	2,136	2,372
Arkansas	837	971	-13.7%	144	11	277	459	11	12	405	489
Louisiana	1,333	1,361	-2.1%	21	23	200	129	0	0	1,112	1,210
Oklahoma	22,415	23,774	-5.7%	1,395	1,518	20,862	22,068	-1	0	159	188
Texas	90,395	87,228	3.6%	271	389	89,634	86,318	30	35	459	485
Mountain	50,091	50,328	-0.5%	8,943	9,741	40,552	39,955	372	397	223	235
Arizona	5,674	5,629	0.8%	354	450	5,288	5,160	16	13	16	6
Colorado	11,349	11,922	-4.8%	2,547	2,829	8,793	9,083	8	8	1	2
Idaho	2,401	2,432	-1.3%	274	123	1,921	2,081	18	17	188	211
Montana	2,704	2,390	13.1%	575	665	2,117	1,715	0	0	11	10
Nevada	8,583	8,176	5.0%	116	120	8,139	7,698	321	352	6	6
New Mexico	10,834	10,236	5.8%	1,969	1,974	8,863	8,260	NM	NM	0	0
Utah	3,162	3,187	-0.8%	132	133	3,021	3,048	8	5	0	0
Wyoming	5,385	6,355	-15.3%	2,975	3,445	2,409	2,910	0	0	0	0
Pacific Contiguous	57,555	58,387	-1.4%	4,779	5,123	50,856	51,271	562	555	1,358	1,439
California	43,432	44,584	-2.6%	1,019	1,240	41,374	42,269	533	525	506	550
Oregon	8,032	7,259	10.6%	1,047	828	6,663	6,086	21	22	300	323
Washington	6,091	6,543	-6.9%	2,713	3,055	2,819	2,916	7	8	552	565
Pacific Noncontiguous	1,120	1,147	-2.3%	108	118	904	901	109	128	0	0
Alaska	103	112	-7.5%	54	58	28	30	21	24	0	0
Hawaii	1,017	1,035	-1.8%	54	59	876	872	87	105	0	0
U.S. Total	391,910	400,677	-2.2%	60,087	62,858	315,849	320,754	2,390	2,177	13,584	14,888

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	-34	-48	-29.7%	0	0	-34	-48	0	0	0	0
Connecticut	0	1	-26.1%	0	0	0	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-34	-49	-29.7%	0	0	-34	-49	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	-142	-155	-8.1%	-47	-57	-95	-97	0	0	0	0
New Jersey	-25	-26	-6.3%	0	0	-25	-26	0	0	0	0
New York	-47	-57	-18.1%	-47	-57	0	0	0	0	0	0
Pennsylvania	-71	-71	-0.6%	0	0	-71	-71	0	0	0	0
East North Central	-110	-122	-9.6%	-110	-122	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	-110	-122	-9.6%	-110	-122	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	-12	-6	88.7%	-12	-6	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	-12	-6	88.7%	-12	-6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-335	-448	-25.2%	-335	-448	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	-75	-122	-38.8%	-75	-122	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	-50	-119	-57.7%	-50	-119	0	0	0	0	0	0
Virginia	-210	-207	1.5%	-210	-207	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-55	-71	-23.3%	-55	-71	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	-55	-71	-23.3%	-55	-71	0	0	0	0	0	0
West South Central	1	-7	-108.4%	1	-7	0	0	0	0	0	0
Arkansas	8	5	68.0%	8	5	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-8	-12	-31.9%	-8	-12	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	16	31	-50.5%	16	31	0	0	0	0	0	0
Arizona	19	29	-32.5%	19	29	0	0	0	0	0	0
Colorado	-4	3	-236.4%	-4	3	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	23	57	-59.0%	23	57	0	0	0	0	0	0
California	23	54	-57.4%	23	54	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	3	-85.7%	0	3	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-648	-768	-15.6%	-519	-623	-129	-146	0	0	0	0

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

Table 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	-250	-223	11.8%	0	0	-250	-223	0	0	0	0
Connecticut	-2	1	-445.4%	0	0	-2	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-248	-224	10.5%	0	0	-248	-224	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	-732	-792	-7.5%	-202	-260	-530	-532	0	0	0	0
New Jersey	-93	-88	6.0%	0	0	-93	-88	0	0	0	0
New York	-202	-260	-22.2%	-202	-260	0	0	0	0	0	0
Pennsylvania	-437	-444	-1.5%	0	0	-437	-444	0	0	0	0
East North Central	-452	-447	1.2%	-452	-447	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	-452	-447	1.2%	-452	-447	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	6	208	-97.3%	6	208	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	6	208	-97.3%	6	208	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	-1,350	-1,663	-18.8%	-1,350	-1,663	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	-204	-311	-34.3%	-204	-311	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	-315	-503	-37.4%	-315	-503	0	0	0	0	0	0
Virginia	-831	-849	-2.1%	-831	-849	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-317	-283	11.9%	-317	-283	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	-317	-283	11.9%	-317	-283	0	0	0	0	0	0
West South Central	41	6	592.3%	41	6	0	0	0	0	0	0
Arkansas	86	54	58.8%	86	54	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-45	-48	-6.4%	-45	-48	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	101	47	115.9%	101	47	0	0	0	0	0	0
Arizona	109	50	118.6%	109	50	0	0	0	0	0	0
Colorado	-8	-3	158.3%	-8	-3	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	-647	-165	293.0%	-647	-165	0	0	0	0	0	0
California	-645	-174	270.3%	-645	-174	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-3	9	-127.5%	-3	9	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-3,601	-3,313	8.7%	-2,821	-2,558	-780	-755	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	149	151	-1.0%	0	0	92	134	45	2	11	15
Connecticut	38	42	-8.6%	0	0	38	42	0	0	0	0
Maine	24	25	-4.4%	0	0	12	8	1	2	11	15
Massachusetts	82	79	3.8%	0	0	37	79	45	0	0	0
New Hampshire	5	4	3.6%	0	0	5	4	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	-4.6%	0	0	0	0	0	0	0	0
Middle Atlantic	213	215	-1.2%	0	0	89	170	124	46	0	0
New Jersey	46	42	11.0%	0	0	12	29	34	13	0	0
New York	91	91	0.0%	0	0	19	68	72	23	0	0
Pennsylvania	76	83	-8.6%	0	0	57	73	18	10	0	0
East North Central	82	80	2.6%	2	2	6	7	5	4	69	66
Illinois	23	22	6.8%	0	0	0	1	0	0	24	21
Indiana	45	43	5.9%	0	0	0	0	0	0	45	43
Michigan	11	13	-14.3%	0	0	6	7	5	4	0	1
Ohio	0	1	-15.6%	0	0	0	0	0	0	0	1
Wisconsin	2	2	-1.0%	2	2	0	0	0	0	0	0
West North Central	30	30	-0.8%	15	15	12	12	3	3	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	26	26	-2.4%	11	11	12	12	3	3	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	NM	3	NM	NM	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	318	326	-2.5%	-4	-5	108	190	90	25	124	115
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	209	212	-1.3%	-4	-5	76	124	48	16	89	78
Georgia	4	5	-16.9%	0	0	0	0	0	0	5	6
Maryland	33	32	5.0%	0	0	33	32	0	0	0	0
North Carolina	26	28	-5.3%	0	0	0	0	0	0	26	28
South Carolina	4	4	-12.3%	0	0	1	1	0	0	3	4
Virginia	42	45	-8.6%	0	0	0	36	42	9	0	0
West Virginia	-1	-1	3.1%	0	0	-1	-1	0	0	0	0
East South Central	11	7	54.2%	11	6	0	0	0	0	0	NM
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	11	6	76.6%	11	6	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	NM	NM	0	0	0	0	0	0	0	NM
West South Central	40	75	-46.7%	4	0	-6	1	-1	0	43	75
Arkansas	1	0	73.7%	0	0	0	0	0	0	1	0
Louisiana	10	41	-75.4%	0	0	0	0	0	0	10	41
Oklahoma	3	-1	-361.9%	4	0	0	0	-1	0	0	-1
Texas	26	35	-25.4%	0	0	-6	1	0	0	33	34
Mountain	30	53	-43.6%	5	6	5	19	0	0	19	27
Arizona	-3	-1	160.6%	0	0	-3	-1	0	0	0	0
Colorado	1	4	-85.5%	0	0	-3	0	0	0	4	4
Idaho	8	7	17.6%	0	0	0	0	0	0	8	7
Montana	19	23	-17.5%	0	0	19	23	0	0	0	0
Nevada	-2	0	-508.3%	3	3	-4	-3	0	0	0	0
New Mexico	-3	0	NM	0	0	-3	0	0	0	0	0
Utah	3	12	-77.7%	3	3	0	0	0	0	0	8
Wyoming	7	8	-7.3%	0	0	0	0	0	0	7	8
Pacific Contiguous	-19	23	-181.9%	-3	-4	-47	-7	6	0	25	33
California	-26	16	-260.7%	-3	-4	-54	-13	6	0	25	33
Oregon	1	2	-70.8%	0	0	1	2	0	0	0	0
Washington	6	5	28.4%	0	0	6	5	0	0	0	0
Pacific Noncontiguous	18	17	3.8%	0	0	0	0	18	17	0	0
Alaska	0	0	-16.1%	0	0	0	0	0	0	0	0
Hawaii	18	17	3.5%	0	0	0	0	18	17	0	0
U.S. Total	870	976	-10.8%	30	20	258	526	291	98	292	332

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	982	1,048	-6.3%	2	2	849	929	51	33	80	84
Connecticut	250	307	-18.5%	0	0	250	307	0	0	0	0
Maine	167	167	-0.1%	0	0	81	57	6	26	80	84
Massachusetts	532	542	-1.8%	0	0	487	535	45	7	0	0
New Hampshire	30	29	2.1%	0	0	30	29	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2	2	-2.0%	2	2	0	0	0	0	0	0
Middle Atlantic	1,352	1,375	-1.7%	0	0	923	1,070	429	302	0	4
New Jersey	306	311	-1.7%	0	0	161	207	145	100	0	4
New York	542	584	-7.2%	0	0	327	444	215	140	0	0
Pennsylvania	504	480	5.0%	0	0	435	418	69	62	0	0
East North Central	528	527	0.2%	13	14	41	43	32	42	442	427
Illinois	159	157	1.4%	0	0	-5	-2	0	0	164	159
Indiana	273	268	1.8%	0	0	0	0	2	12	271	256
Michigan	76	84	-9.0%	0	0	46	46	30	30	0	8
Ohio	6	4	63.4%	0	0	0	0	0	0	6	4
Wisconsin	13	14	-4.7%	13	14	0	0	0	0	0	0
West North Central	187	201	-7.1%	90	95	77	83	19	22	1	1
Iowa	0	0	125.0%	0	0	0	0	0	0	0	0
Kansas	1	1	25.6%	0	0	0	0	0	0	1	1
Minnesota	162	176	-7.9%	66	71	77	83	19	22	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	24	24	-2.6%	24	24	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,056	2,158	-4.7%	-19	-19	878	1,213	455	178	742	785
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	1,425	1,474	-3.3%	-19	-19	707	817	166	102	570	573
Georgia	32	32	0.4%	0	0	-3	-1	0	0	35	33
Maryland	178	172	4.0%	0	0	178	172	0	0	0	0
North Carolina	118	158	-25.0%	0	0	0	0	0	0	118	158
South Carolina	22	24	-8.2%	0	0	4	4	0	0	18	21
Virginia	288	305	-5.4%	0	0	0	229	288	76	0	0
West Virginia	-9	-7	32.5%	0	0	-9	-7	0	0	0	0
East South Central	49	33	50.2%	49	29	0	0	0	0	NM	4
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	49	29	70.6%	49	29	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	4	NM	0	0	0	0	0	0	NM	4
West South Central	351	519	-32.3%	12	-1	-8	3	-2	0	348	516
Arkansas	4	3	68.2%	0	0	0	0	0	0	5	3
Louisiana	134	284	-52.6%	0	0	0	0	0	0	134	284
Oklahoma	6	-6	-210.7%	13	0	0	0	-2	0	-5	-6
Texas	206	238	-13.6%	-1	-1	-8	3	0	0	214	236
Mountain	268	354	-24.3%	31	37	82	151	0	0	156	166
Arizona	-9	-6	41.0%	-2	-2	-7	-4	0	0	0	0
Colorado	20	28	-28.9%	0	0	-5	2	0	0	25	27
Idaho	46	38	19.1%	0	0	0	0	0	0	46	38
Montana	117	167	-29.9%	0	0	117	167	0	0	0	0
Nevada	0	4	-110.9%	17	17	-17	-13	0	0	0	0
New Mexico	-7	0	NM	-1	0	-6	0	0	0	0	0
Utah	57	82	-29.7%	17	23	0	0	0	0	41	59
Wyoming	44	42	5.6%	0	0	0	0	0	0	44	42
Pacific Contiguous	-47	304	-115.5%	-19	-16	-192	18	8	0	156	303
California	-102	246	-141.6%	-18	-16	-247	-40	8	0	156	303
Oregon	15	20	-25.8%	0	0	15	20	0	0	0	0
Washington	40	38	5.2%	0	0	40	38	0	0	0	0
Pacific Noncontiguous	100	182	-44.8%	-1	59	0	0	102	122	0	0
Alaska	-1	-1	0.6%	-1	-1	0	0	0	0	0	0
Hawaii	102	183	-44.4%	0	61	0	0	102	122	0	0
U.S. Total	5,825	6,699	-13.0%	158	200	2,649	3,511	1,095	699	1,924	2,290

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	157	261	-39.7%	10	17	146	242	NM	2	NM	NM
Connecticut	0	1	-47.2%	0	0	0	1	0	0	0	0
Maine	104	170	-38.7%	0	0	104	170	0	0	0	0
Massachusetts	9	14	-38.0%	NM	3	NM	9	NM	1	NM	NM
New Hampshire	19	35	-46.8%	0	0	19	35	0	0	0	0
Rhode Island	8	14	-40.2%	0	0	8	13	0	0	0	0
Vermont	17	27	-36.9%	9	13	9	14	0	0	0	0
Middle Atlantic	423	510	-16.9%	11	0	412	509	NM	NM	NM	NM
New Jersey	1	1	-32.1%	0	0	1	1	0	0	0	0
New York	270	299	-9.6%	11	0	259	299	NM	NM	NM	NM
Pennsylvania	152	209	-27.4%	0	0	152	209	0	0	0	0
East North Central	1,726	2,366	-27.0%	241	344	1,479	2,015	NM	NM	NM	6
Illinois	840	1,149	-26.9%	NM	NM	839	1,148	NM	NM	0	0
Indiana	348	469	-25.8%	0	0	348	469	0	0	0	0
Michigan	367	509	-28.0%	207	289	160	220	0	0	0	0
Ohio	104	149	-30.4%	NM	NM	99	143	0	0	NM	5
Wisconsin	68	90	-24.6%	34	54	33	35	NM	NM	0	0
West North Central	6,294	7,783	-19.1%	2,079	2,649	4,213	5,130	NM	NM	NM	NM
Iowa	1,679	2,265	-25.9%	1,191	1,678	488	587	0	0	0	0
Kansas	1,720	1,991	-13.6%	189	147	1,529	1,842	NM	NM	NM	NM
Minnesota	683	805	-15.1%	215	250	467	553	NM	NM	0	0
Missouri	301	375	-19.5%	130	141	172	234	0	0	0	0
Nebraska	557	728	-23.5%	NM	6	551	722	0	0	0	0
North Dakota	831	936	-11.2%	269	326	562	610	0	0	0	0
South Dakota	523	683	-23.5%	80	101	443	582	0	0	0	0
South Atlantic	155	172	-9.6%	3	3	152	169	0	0	0	0
Delaware	0	0	64.5%	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	19	26	-25.5%	0	0	19	26	0	0	0	0
North Carolina	25	33	-22.7%	0	0	25	33	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	3	3	-7.0%	3	3	0	0	0	0	0	0
West Virginia	108	110	-2.1%	0	0	108	110	0	0	0	0
East South Central	NM	NM	NM	0	0	NM	NM	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	NM	NM	0	0	NM	NM	0	0	0	0
West South Central	12,763	12,241	4.3%	250	229	12,512	12,008	NM	NM	0	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,867	2,988	-4.0%	234	212	2,633	2,776	0	0	0	0
Texas	9,896	9,253	6.9%	17	18	9,879	9,232	NM	NM	0	NM
Mountain	3,370	3,148	7.0%	838	862	2,531	2,286	NM	NM	0	0
Arizona	180	119	51.2%	0	0	180	119	0	0	0	0
Colorado	1,141	1,237	-7.7%	299	331	842	905	0	0	0	0
Idaho	126	156	-19.6%	NM	10	118	146	0	0	0	0
Montana	249	185	34.7%	46	61	202	124	0	0	0	0
Nevada	23	34	-31.8%	0	0	23	34	0	0	0	0
New Mexico	1,125	853	31.8%	235	195	889	658	NM	NM	0	0
Utah	62	70	-12.5%	0	0	62	70	0	0	0	0
Wyoming	465	494	-5.9%	249	265	216	229	0	0	0	0
Pacific Contiguous	2,753	2,732	0.8%	520	513	2,233	2,218	0	0	1	1
California	1,386	1,460	-5.1%	94	118	1,291	1,341	0	0	1	1
Oregon	879	756	16.3%	176	135	703	621	0	0	0	0
Washington	488	515	-5.2%	250	259	238	255	0	0	0	0
Pacific Noncontiguous	81	88	-8.1%	NM	5	76	83	0	0	0	0
Alaska	NM	8	NM	NM	5	NM	NM	0	0	0	0
Hawaii	74	80	-7.2%	0	0	74	80	0	0	0	0
U.S. Total	27,726	29,302	-5.4%	3,956	4,622	23,757	24,661	NM	10	NM	9

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	2,161	2,512	-14.0%	117	153	2,027	2,340	16	19	NM	NM
Connecticut	6	8	-20.8%	0	0	6	8	0	0	0	0
Maine	1,502	1,686	-10.9%	0	0	1,502	1,686	0	0	0	0
Massachusetts	111	131	-15.5%	21	31	77	86	12	15	NM	NM
New Hampshire	240	300	-20.2%	0	0	240	300	0	0	0	0
Rhode Island	109	130	-16.3%	0	0	106	126	4	5	0	0
Vermont	192	256	-24.8%	96	123	96	133	0	0	0	0
Middle Atlantic	4,960	5,137	-3.4%	118	0	4,839	5,134	NM	NM	NM	2
New Jersey	12	13	-13.5%	0	0	12	13	0	0	0	0
New York	2,915	2,851	2.2%	118	0	2,794	2,848	NM	NM	NM	2
Pennsylvania	2,034	2,272	-10.5%	0	0	2,034	2,272	0	0	0	0
East North Central	25,796	28,467	-9.4%	3,266	3,716	22,456	24,670	17	19	57	62
Illinois	12,807	14,065	-8.9%	7	8	12,798	14,054	NM	NM	0	0
Indiana	5,411	5,905	-8.4%	0	0	5,411	5,905	0	0	0	0
Michigan	4,855	5,410	-10.3%	2,664	2,993	2,191	2,417	0	0	0	0
Ohio	1,732	1,971	-12.2%	NM	NM	1,672	1,908	2	2	53	57
Wisconsin	992	1,116	-11.1%	590	711	386	387	13	14	4	5
West North Central	73,368	81,699	-10.2%	27,243	30,265	46,094	51,400	25	28	NM	NM
Iowa	24,166	26,892	-10.1%	17,388	20,120	6,776	6,769	2	3	0	0
Kansas	15,778	18,388	-14.2%	1,511	1,256	14,253	17,117	NM	10	NM	NM
Minnesota	8,094	8,476	-4.5%	2,647	2,636	5,432	5,824	14	16	0	0
Missouri	4,009	4,514	-11.2%	1,653	1,762	2,356	2,752	0	0	0	0
Nebraska	7,191	7,243	-0.7%	62	59	7,129	7,184	0	0	0	0
North Dakota	8,681	10,034	-13.5%	3,126	3,485	5,555	6,549	0	0	0	0
South Dakota	5,448	6,152	-11.4%	857	947	4,591	5,205	0	0	0	0
South Atlantic	1,951	1,928	1.2%	31	33	1,918	1,892	3	3	0	0
Delaware	3	3	-19.6%	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	287	314	-8.8%	0	0	287	314	0	0	0	0
North Carolina	339	355	-4.7%	0	0	339	355	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	31	33	-6.6%	31	33	0	0	0	0	0	0
West Virginia	1,293	1,222	5.8%	0	0	1,293	1,222	0	0	0	0
East South Central	22	18	20.1%	0	0	22	18	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	22	18	20.1%	0	0	22	18	0	0	0	0
West South Central	95,925	96,507	-0.6%	1,474	1,603	94,420	94,866	28	33	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	21,853	23,522	-7.1%	1,351	1,468	20,502	22,054	0	0	0	0
Texas	74,072	72,985	1.5%	123	136	73,918	72,812	28	33	NM	NM
Mountain	29,989	31,362	-4.4%	7,900	8,768	22,086	22,590	NM	NM	1	2
Arizona	1,093	1,058	3.3%	0	0	1,093	1,058	0	0	0	0
Colorado	9,356	10,329	-9.4%	2,539	2,821	6,816	7,507	0	0	1	2
Idaho	1,578	1,755	-10.1%	101	116	1,477	1,639	0	0	0	0
Montana	2,573	2,353	9.4%	569	659	2,004	1,694	0	0	0	0
Nevada	200	200	0.1%	0	0	200	200	0	0	0	0
New Mexico	9,455	8,969	5.4%	1,716	1,727	7,738	7,240	NM	NM	0	0
Utah	458	463	-0.9%	0	0	458	463	0	0	0	0
Wyoming	5,275	6,235	-15.4%	2,975	3,445	2,300	2,790	0	0	0	0
Pacific Contiguous	20,892	21,391	-2.3%	4,063	4,167	16,821	17,216	4	4	3	3
California	9,679	10,201	-5.1%	506	512	9,165	9,682	4	4	3	3
Oregon	6,130	5,496	11.5%	1,011	791	5,119	4,706	0	0	0	0
Washington	5,083	5,693	-10.7%	2,547	2,865	2,537	2,829	0	0	0	0
Pacific Noncontiguous	461	471	-2.1%	53	57	408	414	0	0	0	0
Alaska	81	87	-6.8%	53	57	28	30	0	0	0	0
Hawaii	380	384	-1.0%	0	0	380	384	0	0	0	0
U.S. Total	255,525	269,492	-5.2%	44,267	48,763	211,092	220,540	97	110	70	78

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	440	505	-12.7%	40	38	305	394	43	8	52	64
Connecticut	53	63	-15.7%	0	0	53	63	0	0	0	0
Maine	147	179	-18.0%	0	0	94	113	0	2	52	64
Massachusetts	87	86	0.5%	0	0	47	84	40	3	0	0
New Hampshire	82	102	-19.5%	0	0	79	99	3	4	0	0
Rhode Island	20	21	-2.8%	0	0	20	21	0	0	0	0
Vermont	52	54	-4.0%	40	38	NM	16	0	0	0	0
Middle Atlantic	332	372	-10.8%	0	0	180	277	106	41	46	53
New Jersey	57	57	-0.1%	0	0	28	45	29	12	0	0
New York	138	166	-17.1%	0	0	68	133	59	19	11	14
Pennsylvania	138	150	-7.9%	0	0	84	100	18	11	35	39
East North Central	376	446	-15.6%	83	97	196	237	9	8	89	104
Illinois	23	34	-32.5%	8	15	15	19	0	0	0	0
Indiana	33	33	-0.8%	22	23	5	4	0	0	6	5
Michigan	188	216	-13.1%	0	0	141	158	4	4	43	54
Ohio	28	47	-40.1%	0	0	10	28	1	0	17	18
Wisconsin	105	116	-9.6%	53	59	24	27	4	4	24	26
West North Central	137	156	-11.8%	25	25	40	45	13	22	59	64
Iowa	17	18	-7.8%	NM	NM	8	9	NM	1	7	7
Kansas	5	5	-3.1%	0	0	5	5	0	0	0	0
Minnesota	97	111	-12.6%	14	15	25	28	7	13	51	55
Missouri	10	12	-20.1%	NM	3	3	3	4	6	0	0
Nebraska	8	7	10.3%	6	6	0	0	2	1	0	0
North Dakota	0	NM	NM	0	0	0	0	0	0	0	NM
South Dakota	NM	2	NM	0	0	0	0	0	0	NM	2
South Atlantic	1,349	1,673	-19.3%	137	203	442	581	80	28	690	861
Delaware	6	6	-6.2%	0	0	5	5	0	0	NM	NM
District of Columbia	5	4	1.6%	0	0	0	0	5	4	0	0
Florida	301	386	-22.1%	39	74	91	146	41	14	130	152
Georgia	444	528	-15.8%	0	0	160	176	0	0	284	352
Maryland	31	31	0.4%	0	0	31	30	0	1	0	0
North Carolina	141	172	-18.0%	0	0	62	67	0	0	79	105
South Carolina	146	198	-26.5%	4	4	30	56	0	0	112	138
Virginia	275	346	-20.5%	94	125	62	100	35	9	84	113
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	440	512	-14.1%	8	8	9	12	0	0	422	492
Alabama	262	292	-10.5%	0	0	4	4	0	0	258	289
Kentucky	29	36	-20.8%	8	8	NM	1	0	0	20	27
Mississippi	107	120	-10.9%	0	0	NM	NM	0	0	106	119
Tennessee	42	63	-32.9%	0	0	4	6	0	0	38	57
West South Central	376	447	-15.8%	55	56	27	34	-1	0	295	357
Arkansas	58	81	-28.6%	0	0	5	5	0	0	53	76
Louisiana	166	189	-12.6%	0	0	7	7	0	0	158	182
Oklahoma	21	28	-25.1%	0	0	NM	NM	-1	0	20	27
Texas	132	149	-11.2%	55	56	13	20	0	0	63	73
Mountain	81	94	-14.4%	NM	2	45	56	4	3	30	33
Arizona	NM	21	NM	0	0	NM	21	0	0	0	0
Colorado	11	15	-24.5%	0	0	11	15	0	0	0	0
Idaho	38	43	-12.5%	NM	NM	6	9	3	3	28	31
Montana	3	3	-0.7%	NM	NM	0	0	0	0	2	2
Nevada	4	4	-6.7%	0	0	4	4	0	0	0	0
New Mexico	2	2	23.6%	0	0	2	2	0	0	0	0
Utah	7	6	4.8%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	620	714	-13.1%	34	37	349	406	67	64	170	207
California	432	488	-11.6%	4	NM	311	361	63	59	52	67
Oregon	80	100	-19.8%	5	5	30	37	3	3	42	54
Washington	109	126	-13.5%	24	32	8	7	NM	NM	75	86
Pacific Noncontiguous	25	28	-10.3%	1	2	6	8	18	18	0	0
Alaska	3	3	-9.5%	0	0	0	0	3	3	0	0
Hawaii	22	24	-10.4%	1	2	6	8	15	14	0	0
U.S. Total	4,178	4,946	-15.5%	383	469	1,600	2,050	340	192	1,854	2,235

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	2,792	3,070	-9.1%	163	177	2,189	2,443	79	71	361	379
Connecticut	352	417	-15.6%	0	0	352	417	0	0	0	0
Maine	993	1,080	-8.1%	0	0	627	680	5	22	361	379
Massachusetts	560	580	-3.5%	0	0	507	558	52	22	0	0
New Hampshire	500	589	-15.2%	0	0	479	563	21	27	0	0
Rhode Island	137	130	5.5%	0	0	137	130	0	0	0	0
Vermont	250	273	-8.4%	163	177	87	96	1	1	0	0
Middle Atlantic	2,271	2,465	-7.8%	0	0	1,580	1,838	379	277	312	349
New Jersey	392	396	-0.9%	0	0	269	309	124	87	0	0
New York	948	1,114	-14.9%	0	0	697	900	177	115	74	99
Pennsylvania	931	955	-2.5%	0	0	614	630	79	75	238	251
East North Central	2,456	2,928	-16.1%	495	578	1,293	1,549	60	70	607	731
Illinois	165	235	-29.5%	55	104	110	131	0	0	0	0
Indiana	224	238	-6.1%	153	158	31	34	2	10	38	36
Michigan	1,228	1,398	-12.2%	0	0	899	993	25	24	305	381
Ohio	190	339	-44.0%	0	0	81	207	5	4	104	127
Wisconsin	648	717	-9.6%	287	316	172	184	29	32	161	186
West North Central	951	1,042	-8.8%	151	167	279	300	87	132	432	443
Iowa	111	123	-9.3%	12	13	55	58	6	11	38	41
Kansas	32	33	-2.7%	0	0	32	33	0	0	0	0
Minnesota	666	745	-10.6%	78	89	171	187	38	84	379	384
Missouri	76	71	7.7%	21	22	20	21	33	26	2	2
Nebraska	52	54	-4.4%	41	43	0	0	11	11	0	0
North Dakota	NM	4	NM	0	0	0	0	0	0	NM	4
South Dakota	11	12	-6.9%	0	0	0	0	0	0	11	12
South Atlantic	9,540	10,542	-9.5%	795	1,068	3,171	3,593	425	199	5,150	5,682
Delaware	40	41	-3.5%	0	0	34	35	0	0	6	7
District of Columbia	35	35	1.6%	0	0	0	0	35	35	0	0
Florida	2,148	2,424	-11.4%	251	384	791	907	143	90	962	1,044
Georgia	3,098	3,355	-7.6%	0	0	1,052	1,087	0	0	2,046	2,267
Maryland	176	174	1.2%	0	0	174	169	3	5	0	0
North Carolina	994	1,070	-7.1%	0	0	411	385	0	0	582	685
South Carolina	1,187	1,329	-10.7%	29	30	285	368	0	0	872	930
Virginia	1,856	2,109	-12.0%	514	654	418	637	243	69	681	749
West Virginia	5	6	-4.3%	0	0	5	6	0	0	0	0
East South Central	3,031	3,298	-8.1%	54	56	66	81	0	0	2,911	3,161
Alabama	1,812	1,883	-3.7%	0	0	25	25	0	0	1,787	1,857
Kentucky	204	240	-14.9%	54	56	7	9	0	0	143	175
Mississippi	745	767	-2.8%	0	0	6	6	0	0	739	761
Tennessee	270	409	-34.0%	0	0	28	40	0	0	241	369
West South Central	2,444	2,837	-13.8%	138	244	182	234	-1	1	2,125	2,358
Arkansas	435	520	-16.3%	0	0	32	33	0	1	403	486
Louisiana	1,160	1,259	-7.9%	0	0	48	49	0	0	1,112	1,210
Oklahoma	169	199	-15.3%	0	0	10	11	-1	0	159	188
Texas	680	859	-20.8%	138	244	92	141	0	0	450	474
Mountain	553	618	-10.6%	13	14	315	362	26	22	198	220
Arizona	113	125	-9.4%	0	0	113	125	0	0	0	0
Colorado	78	99	-21.6%	0	0	78	99	0	0	0	0
Idaho	251	289	-13.2%	7	8	39	55	18	17	187	209
Montana	18	17	6.5%	6	6	0	0	0	0	11	10
Nevada	30	31	-3.9%	0	0	30	31	0	0	0	0
New Mexico	19	15	28.1%	0	0	19	15	0	0	0	0
Utah	45	43	4.2%	0	0	36	37	8	5	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,198	4,544	-7.6%	219	222	2,319	2,586	432	417	1,228	1,319
California	2,870	3,118	-8.0%	25	3	2,066	2,298	403	387	376	430
Oregon	554	615	-9.9%	33	34	199	235	21	22	300	323
Washington	774	811	-4.5%	161	185	54	53	7	8	552	565
Pacific Noncontiguous	178	187	-5.1%	8	10	65	53	105	124	0	0
Alaska	21	24	-10.1%	0	0	0	0	21	24	0	0
Hawaii	156	164	-4.4%	8	10	65	53	83	100	0	0
U.S. Total	28,413	31,531	-9.9%	2,038	2,535	11,460	13,040	1,591	1,314	13,325	14,642

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 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	362	378	-4.2%	18	20	344	322	0	36	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	6	7	-12.2%	0	0	6	7	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	320	330	-2.8%	0	0	320	293	0	36	0	0
New Mexico	2	3	-45.5%	0	0	2	3	0	0	0	0
Utah	34	38	-11.9%	18	20	16	19	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	955	1,035	-7.7%	64	67	891	968	0	0	0	0
California	941	1,019	-7.6%	64	67	877	951	0	0	0	0
Oregon	14	17	-15.5%	0	0	14	17	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	16	25	-35.7%	0	0	16	25	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	16	25	-35.7%	0	0	16	25	0	0	0	0
U.S. Total	1,333	1,438	-7.3%	82	87	1,251	1,315	0	36	0	0

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 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	2,771	2,650	4.6%	128	133	2,352	2,199	291	318	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	48	48	-0.5%	0	0	48	48	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,446	2,317	5.5%	0	0	2,155	1,999	291	318	0	0
New Mexico	22	27	-19.8%	0	0	22	27	0	0	0	0
Utah	255	257	-0.8%	128	133	128	124	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,565	6,950	-5.5%	243	459	6,321	6,491	0	0	0	0
California	6,449	6,838	-5.7%	243	459	6,206	6,379	0	0	0	0
Oregon	116	112	3.5%	0	0	116	112	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	108	171	-37.1%	0	0	108	171	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	108	171	-37.1%	0	0	108	171	0	0	0	0
U.S. Total	9,443	9,771	-3.4%	371	592	8,782	8,861	291	318	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	1,165	952	22.4%	424	392	741	559	16	18	404	372	NM	NM	NM	NM	389	305	NM	NM	NM	NM	24	17	328	236
Connecticut	189	159	18.8%	49	49	140	110	0	0	48	49	NM	NM	NM	NM	43	40	NM	NM	NM	NM	6	5	91	65
Maine	137	103	32.7%	70	62	67	41	0	0	70	62	55	32	0	0	55	32	0	0	0	0	0	0	12	9
Massachusetts	637	511	24.6%	229	210	407	301	9	10	218	199	NM	NM	NM	NM	225	171	NM	NM	NM	NM	16	10	167	120
New Hampshire	NM	26	NM	NM	NM	33	26	0	0	NM	NM	12	10	0	0	12	10	1	1	0	0	1	1	21	14
Rhode Island	117	103	13.4%	51	46	67	57	0	0	51	46	45	43	0	0	45	43	1	0	0	0	1	0	21	14
Vermont	50	48	4.7%	24	24	26	24	7	9	17	16	10	9	0	0	10	9	0	0	0	0	0	0	16	14
Middle Atlantic	1,508	1,213	24.4%	536	415	972	798	13	12	502	382	465	417	19	18	446	399	39	35	3	3	36	32	490	367
New Jersey	576	496	16.2%	183	167	394	329	13	12	153	137	189	171	17	16	172	155	NM	NM	NM	NM	24	22	198	153
New York	767	606	26.5%	307	222	459	384	0	0	305	220	NM	NM	NM	NM	245	219	NM	NM	NM	NM	2	2	212	163
Pennsylvania	165	111	49.2%	46	26	119	85	0	0	44	24	NM	NM	NM	NM	29	25	NM	NM	NM	NM	10	8	80	51
East North Central	1,348	901	49.6%	1,012	634	335	267	304	133	706	499	NM	NM	NM	NM	161	146	11	10	0	0	11	10	164	111
Illinois	397	319	24.5%	221	177	176	142	0	0	221	176	NM	NM	NM	NM	90	88	1	0	0	0	1	0	86	53
Indiana	317	163	94.4%	277	131	40	33	167	55	109	76	NM	NM	NM	NM	22	19	1	1	0	0	1	1	16	12
Michigan	198	139	42.5%	162	109	36	30	10	10	153	99	NM	NM	NM	NM	13	11	1	1	0	0	1	1	22	18
Ohio	230	146	57.3%	181	109	50	37	NM	NM	179	108	NM	NM	NM	NM	22	16	5	5	0	0	5	5	22	17
Wisconsin	205	133	53.7%	171	108	34	26	126	67	44	40	NM	NM	NM	NM	14	11	3	3	0	0	3	3	17	12
West North Central	526	444	18.6%	349	309	177	135	49	32	300	277	60	52	0	0	60	52	6	6	0	0	6	6	111	77
Iowa	111	86	29.5%	65	50	45	35	36	22	30	28	23	20	0	0	23	20	2	1	0	0	2	1	21	14
Kansas	23	18	30.2%	9	9	14	9	NM	NM	8	8	4	3	0	0	4	3	0	0	0	0	0	0	10	6
Minnesota	283	253	12.0%	245	224	38	29	8	5	238	219	10	9	0	0	10	9	3	3	0	0	3	3	26	18
Missouri	94	74	27.2%	20	17	74	56	4	4	16	13	22	20	0	0	22	20	1	1	0	0	1	1	51	36
Nebraska	14	13	9.7%	9	9	5	4	NM	NM	8	8	1	1	0	0	1	1	0	0	0	0	0	0	4	3
North Dakota	0	0	52.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	NM	NM	0	0	NM	NM	0	0
South Atlantic	5,296	4,435	19.4%	4,474	3,836	821	598	1,650	1,390	2,807	2,430	136	120	16	15	120	105	NM	NM	NM	NM	44	37	658	456
Delaware	38	23	64.7%	18	7	20	16	NM	NM	17	6	NM	NM	NM	NM	4	3	NM	1	0	0	NM	1	15	11
District of Columbia	25	21	18.3%	4	3	21	18	NM	0	NM	3	8	7	0	0	8	7	0	0	0	0	0	0	14	11
Florida	1,711	1,374	24.5%	1,342	1,123	369	251	1,256	1,032	84	89	NM	NM	NM	NM	26	21	NM	NM	NM	NM	7	1	336	229
Georgia	843	736	14.5%	793	692	51	45	65	65	727	626	NM	NM	NM	NM	8	7	NM	NM	0	0	NM	NM	NM	NM
Maryland	263	196	34.2%	111	77	152	119	NM	NM	108	74	NM	34	NM	2	32	32	3	3	0	0	3	3	117	85
North Carolina	1,359	1,233	10.2%	1,285	1,174	74	59	86	81	1,186	1,081	30	28	13	12	18	16	2	2	0	0	2	2	55	41
South Carolina	365	288	26.6%	305	240	60	48	NM	NM	304	239	11	9	0	0	11	9	NM	NM	NM	NM	4	4	45	34
Virginia	687	560	22.7%	617	521	70	39	239	209	378	311	NM	NM	NM	NM	13	9	1	0	0	0	1	0	56	30
West Virginia	5	3	45.1%	0	0	5	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	2
East South Central	354	249	41.9%	327	224	27	25	27	8	298	215	NM	NM	NM	NM	11	13	1	1	1	1	1	0	15	12
Alabama	NM	93	NM	131	91	NM	NM	3	3	128	88	NM	NM	0	0	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	30	16	82.3%	15	5	14	11	5	5	10	NM	NM	4	NM	0	4	4	0	0	0	0	0	0	10	7
Mississippi	67	50	34.5%	64	47	3	2	19	0	45	47	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Tennessee	124	90	37.0%	116	81	7	9	NM	NM	115	80	NM	NM	NM	NM	5	6	NM	NM	1	1	NM	NM	3	3
West South Central	3,983	3,144	26.7%	3,449	2,768	534	376	34	16	3,410	2,747	89	57	3	3	86	54	NM	NM	NM	NM	4	4	444	318
Arkansas	109	103	5.2%	66	79	42	24	21	NM	43	74	19	10	2	3	17	7	NM	NM	NM	NM	4	3	22	13
Louisiana	64	42	52.2%	33	15	30	27	4	4	29	11	2	2	0	0	2	2	0	0	0	0	0	0	28	25
Oklahoma	24	18	32.8%	8	9	16	9	8	9	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	14	8
Texas	3,786	2,980	27.0%	3,341	2,664	445	317	NM	NM	3,337	2,661	NM	NM	NM	NM	64	43	NM	NM	NM	NM	0	0	381	273
Mountain	4,133	3,290	25.6%	3,182	2,543	951	747	169	136	2,998	2,393	153	150	10	9	143	141	19	17	4	4	15	12	793	594
Arizona	1,128	977	15.5%	707	651	420	326	65	74	637	572	66	70	3	3	63	67	NM	NM	NM	NM	1	1	356	258
Colorado	620	394	57.4%	453	261	166	133	NM	NM	451	258	NM	NM	NM	NM	36	33	3	2	0	0	3	2	128	98
Idaho	144	87	64.9%	116	67	28	21	33	0	83	66	2	1	0	0	2	1	NM	NM	NM	NM	3	3	23	16
Montana	38	11	244.1%	29	5	9	6	0	0	29	5	2	2	0	0	2	2	0	0	0	0	0	0	7	5
Nevada	1,262	1,033	22.2%	1,096	906	166	126	21	19	1,068	881	18	18	6	6	13	13	NM	NM	NM	NM	6	4	147	109
New Mexico	346	268	29.2%	282	216	65	52	48	42	234	174	13	12	0	0	13	12	0	0	0	0	0	0	51	40
Utah	570	495	15.1%	476	415	93	80	NM	0	475	415	14	13	0	0	14	13	1	1	0	0	1	1	78	66
Wyoming	25	25	0.8%	22	23	3	2	0	0	22	23	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Pacific Contiguous	7,889	6,817	15.7%	4,786	4,287	3,103	2,529	46	45	4,692	4,199	654	587	23	23	631	565	348	328	24	20	324	308	2,149	1,656
California	7,428	6,506	14.2%	4,459	4,078	2,970	2,428	45	44	4,367	3,991	627	564	23	23	604	541	345	326	24	20	321	306	2,045	1,581
Oregon	342	250	36.8%	275	201	67	49	NM	NM	274	200	17	15	0	0	17	15	3	2	0	0	3	2	47	32
Washington	119	61	95.2%	53	9	67	52	NM	NM	52	8	9	8	0	0	9	8	0	0	0	0	0	0	57	44
Pacific Noncontiguous	204	175	17.0%	69	52	135	123	8	8	61	43	NM	NM	NM	NM	49	47	0	0	0	0	0	0	86	76
Alaska	NM	3	NM	NM	NM	3	2	NM	NM	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Hawaii	201	172	17.0%	69	51	133	121	8	8	61	43	NM	NM	NM	NM	48	46	0	0	0	0	0	0	84	75
U.S. Total	26,405	21,618	22.1%	18,608	15,461	7,797	6,157	2,317	1,799	16,178	13,557	2,171	1,899	77	74	2,095	1,825	501	458	36	31	465	427	5,238	3,905

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	6,331	5,272	20.1%	2,271	2,223	4,060	3,049	89	98	2,166	2,114	2,154	1,701	9	7	2,144	1,694	137	103	7	3	131	100	1,785	1,255
Connecticut	1,052	875	20.3%	277	273	776	601	0	0	271	271	248	230	2	2	245	228	37	30	NM	NM	34	30	497	343
Maine	712	484	47.1%	355	297	357	187	0	0	355	297	291	136	0	0	291	136	0	0	0	0	0	0	66	50
Massachusetts	3,469	2,923	18.7%	1,241	1,257	2,228	1,666	52	58	1,179	1,191	1,239	982	7	5	1,232	977	87	63	3	3	84	60	912	629
New Hampshire	186	148	26.3%	2	2	184	145	0	0	2	2	66	59	0	0	66	59	7	7	0	0	7	7	110	79
Rhode Island	639	584	9.5%	270	263	369	321	0	0	270	263	256	244	0	0	256	244	4	2	0	0	4	2	109	75
Vermont	273	259	5.4%	126	130	147	129	37	39	89	91	54	49	0	0	54	49	1	1	0	0	1	1	91	78
Middle Atlantic	8,168	6,825	19.7%	2,757	2,421	5,410	4,404	69	75	2,571	2,217	2,632	2,324	104	114	2,529	2,210	226	202	14	15	211	187	2,670	2,007
New Jersey	3,238	2,830	14.4%	986	1,001	2,253	1,829	69	75	821	820	1,090	964	92	102	998	861	142	130	3	3	139	127	1,116	841
New York	4,047	3,370	20.1%	1,543	1,265	2,503	2,105	0	0	1,531	1,252	1,376	1,211	6	7	1,370	1,204	18	18	6	6	12	11	1,122	890
Pennsylvania	883	625	41.3%	228	155	654	469	0	0	218	145	166	150	5	5	161	144	65	54	5	5	61	49	433	276
East North Central	6,380	4,674	36.5%	4,614	3,268	1,767	1,406	1,161	684	3,442	2,572	881	786	10	11	872	776	60	51	1	1	59	50	836	580
Illinois	2,126	1,638	29.7%	1,198	891	927	747	1	1	1,194	887	501	474	NM	NM	498	472	3	3	0	0	3	3	426	273
Indiana	1,281	889	44.0%	1,058	721	223	169	506	309	551	411	122	100	NM	NM	121	99	8	4	0	0	8	4	94	65
Michigan	1,056	710	48.8%	869	555	187	154	51	55	818	501	67	60	NM	NM	67	60	3	3	0	0	3	3	117	92
Ohio	941	789	19.3%	682	590	259	199	5	5	673	581	118	90	3	4	115	86	28	24	1	1	27	23	117	90
Wisconsin	977	647	51.0%	806	510	171	137	598	314	207	193	73	62	2	3	71	59	17	17	0	0	17	17	83	61
West North Central	2,762	2,398	15.2%	1,808	1,678	954	720	243	119	1,565	1,559	327	283	0	0	327	283	35	32	0	0	35	32	592	404
Iowa	571	390	46.6%	335	204	236	186	191	62	145	142	120	106	0	0	120	106	9	7	0	0	9	7	107	72
Kansas	119	90	32.5%	44	40	75	50	4	NM	40	39	23	16	0	0	23	16	1	1	0	0	1	1	52	34
Minnesota	1,462	1,427	2.5%	1,268	1,280	194	147	22	28	1,246	1,252	51	43	0	0	51	43	15	15	0	0	15	15	128	89
Missouri	526	413	27.6%	110	98	416	314	23	22	88	76	125	112	0	0	125	112	8	8	0	0	8	8	284	194
Nebraska	79	75	5.4%	49	54	29	21	5	5	45	49	7	5	0	0	7	5	2	2	0	0	2	2	20	13
North Dakota	1	1	47.6%	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0
South Dakota	3	3	15.4%	NM	NM	2	1	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	1
South Atlantic	30,601	27,059	13.1%	25,689	23,451	4,912	3,608	10,273	8,677	15,322	14,676	818	743	89	93	728	650	268	237	5	5	263	232	3,921	2,726
Delaware	216	132	63.7%	100	41	115	91	4	4	95	35	23	22	NM	2	21	19	8	7	0	0	8	7	86	64
District of Columbia	143	123	15.6%	19	18	124	105	NM	0	18	18	45	41	0	0	45	41	0	0	0	0	0	0	79	64
Florida	10,916	8,627	26.5%	8,607	7,073	2,309	1,554	8,055	6,494	546	572	173	149	5	5	168	144	35	12	2	2	33	10	2,108	1,399
Georgia	4,817	4,578	5.2%	4,507	4,308	310	270	382	430	4,124	3,876	48	45	NM	NM	46	43	161	158	0	0	161	158	103	69
Maryland	1,461	1,138	28.3%	585	455	876	683	5	5	568	439	211	196	12	11	198	185	19	18	0	0	19	18	659	480
North Carolina	7,395	7,536	-1.9%	6,944	7,182	452	354	470	505	6,407	6,605	178	174	68	72	110	101	11	10	0	0	11	10	331	243
South Carolina	1,945	1,808	7.6%	1,584	1,513	361	295	5	5	1,576	1,506	68	58	0	0	68	58	29	29	3	2	26	26	267	211
Virginia	3,679	3,098	18.8%	3,342	2,860	337	238	1,352	1,234	1,989	1,625	66	53	NM	NM	65	52	4	3	0	0	4	3	268	183
West Virginia	28	19	44.9%	0	0	28	19	0	0	0	0	6	5	0	0	6	5	1	1	0	0	1	1	21	14
East South Central	1,883	1,457	29.2%	1,726	1,311	156	146	157	46	1,562	1,258	71	81	3	3	68	78	7	6	4	4	3	2	85	66
Alabama	711	587	21.2%	696	572	15	15	15	16	681	556	10	11	0	0	10	11	1	1	0	0	1	1	4	3
Kentucky	175	91	92.1%	95	29	80	62	29	29	66	NM	22	23	NM	0	22	23	1	1	0	0	1	1	57	38
Mississippi	382	317	20.4%	366	304	16	14	111	0	255	304	7	7	0	0	7	7	0	0	0	0	0	0	9	6
Tennessee	614	461	33.2%	569	406	45	55	NM	2	561	397	32	40	3	3	30	37	4	4	4	4	0	0	15	18
West South Central	19,622	16,101	21.9%	16,612	13,990	3,010	2,111	218	94	16,372	13,873	493	322	13	14	480	308	31	30	9	9	22	21	2,508	1,782
Arkansas	632	578	9.3%	402	450	230	127	144	11	245	426	103	52	11	11	92	41	23	22	NM	2	21	20	117	66
Louisiana	359	267	34.5%	174	103	186	165	21	23	153	80	14	12	0	0	14	12	0	0	0	0	0	0	172	153
Oklahoma	477	101	375.0%	394	53	84	48	44	50	350	NM	13	7	0	0	13	7	1	1	0	0	1	1	70	40
Texas	18,153	15,155	19.8%	15,642	13,384	2,511	1,771	9	10	15,625	13,365	363	251	2	3	361	249	7	7	7	7	0	0	2,150	1,522
Mountain	22,195	19,860	11.8%	16,216	15,163	5,979	4,696	902	826	15,236	14,268	977	1,010	54	55	923	955	115	87	24	14	91	74	4,965	3,668
Arizona	6,845	6,210	10.2%	3,986	4,005	2,860	2,205	354	450	3,600	3,536	454	520	16	13	438	507	25	14	16	6	8	8	2,413	1,690
Colorado	2,890	2,286	26.4%	1,915	1,494	975	792	8	8	1,899	1,477	227	210	8	8	219	202	16	13	0	0	16	13	740	577
Idaho	665	444	49.8%	525	340	140	103	166	0	357	339	8	7	0	0	8	7	19	19	NM	2	17	17	114	79
Montana	158	52	202.0%	113	21	45	32	0	0	113	21	10	9	0	0	10	9	0	0	0	0	0	0	35	23
Nevada	6,819	6,299	8.3%	5,829	5,536	990	763	116	120	5,676	5,376	106	110	31	33	76	77	47	33	6	6	41	27	873	660
New Mexico	1,755	1,561	12.4%	1,338	1,225	417	336	253	247	1,084	978	89	80	0	0	89	80	1	1	0	0	1	1	328	255
Utah	2,937	2,874	2.2%	2,401	2,422	535	452	5	0	2,396	2,422	82	73	0	0	82	73	8	7	0	0	8	7	445	372
Wyoming	127	134	-5.2%	109	120	17	13	0	0	109	120	2	2	0	0	2	2	0	0	0	0	0	0	15	11
Pacific Contiguous	41,931	38,427	9.1%	24,775	24,160	17,156	14,266	254	275	24,270	23,635	3,716	3,345	125	134	3,591	3,212	1,966	1,876	126	117	1,840	1,759	11,725	9,296
California	39,843	36,882	8.0%	23,309	23,085	16,534	13,798	245	266	22,812	22,568	3,590	3,235	125	134	3,464	3,101	1,952	1,864	126	117	1,826	1,747	11,243	8,949
Oregon	1,543	1,262	22.3%	1,232	1,036	311	225	3	3	1,229	1,033	83	71	0	0	83	71	13	11	0	0	13	11	215	143
Washington	545	283	92.7%	234	40	311	243	5	5	228	34	44	39	0	0	44	39	1	1	0	0	1	1	267	204
Pacific Noncontiguous	1,211	1,089	11.2%	374	318	837	771	46	50	323	263	306	296	NM	4	302	291	3	3	0	0	3	3	532	477
Alaska	14	12	14.9%	NM	NM	13	11	NM	NM	0	0	4	4	0	0	4	4	0	0	0	0	0	0	9	7
Hawaii	1,196	1,076	11.2%	373	317	824	759	45	49	323	263	302	292	NM	4	298	287	2	2	0	0	2	2	523	470
U.S. Total	141,083	123,159	14.6%	96,841	87,983	44,242	35,177	13,412	10,944	82,829	76,436	12,376	10,891	412	435	11,965	10,457	2,847	2,627	189	167	2,658	2,459	29,620	22,261

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 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	109	76	43.0%	0	0	109	76	0	0	0	0
Arizona	88	65	34.5%	0	0	88	65	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	21	10	97.7%	0	0	21	10	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	NM	NM	0	0	NM	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	271	210	29.3%	0	0	271	210	0	0	0	0
California	271	210	29.3%	0	0	271	210	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	380	288	31.9%	0	2	380	286	0	0	0	0

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

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

by State, by Sector, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 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	24	-100.0%	0	24	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	24	-100.0%	0	24	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	563	535	5.2%	0	0	563	535	0	0	0	0
Arizona	483	441	9.4%	0	0	483	441	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	78	92	-14.7%	0	0	78	92	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	NM	NM	0	0	NM	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,125	1,342	-16.2%	0	0	1,125	1,342	0	0	0	0
California	1,125	1,342	-16.2%	0	0	1,125	1,342	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	1,687	1,901	-11.2%	0	24	1,687	1,877	0	0	0	0

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

Chapter 2

Consumption of Fossil Fuels

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2013-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	468,779	348,344	118,644	84	1,706
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	48,491	35,513	12,822	8	148
February	39,703	28,501	11,055	6	141
March	34,129	24,089	9,881	5	154
April	30,634	21,953	8,551	3	127
May	34,866	26,339	8,367	7	152
June	41,533	31,859	9,517	8	149
July	49,235	37,818	11,260	8	150
August	48,108	36,224	11,723	9	152
Sept	37,106	28,080	8,883	9	134
October	31,313	23,269	7,908	7	128
November	32,169	23,234	8,800	7	128
December	41,491	31,465	9,877	7	142
Year 2023					
January	34,523	27,292	7,088	6	138
February	26,689	19,991	6,571	6	121
March	28,400	21,137	7,137	5	121
April	22,623	16,075	6,423	6	119
May	25,378	18,475	6,773	5	125
June	33,466	26,208	7,127	2	128
July	44,171	34,441	9,586	4	140
Year to Date					
2021	297,114	222,716	73,407	48	944
2022	278,591	206,073	71,452	44	1,021
2023	215,251	163,620	50,704	35	891
Rolling 12 Months Ending in July					
2022	481,844	356,052	123,964	83	1,744
2023	405,439	305,891	97,897	75	1,576

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	11,805	2,229	720	424	8,432
Year 2021					
January	1,027	183	64	45	735
February	994	185	72	55	683
March	949	166	67	43	674
April	858	143	45	33	637
May	835	130	51	27	627
June	896	187	52	28	630
July	993	211	54	29	700
August	955	220	57	32	646
Sept	962	200	59	36	667
October	889	152	37	37	663
November	976	168	50	42	716
December	967	209	60	42	656
Year 2022					
January	1,082	215	79	39	750
February	934	182	65	38	648
March	1,019	173	80	27	739
April	936	155	72	20	690
May	956	146	67	22	721
June	969	175	57	37	700
July	1,003	223	48	42	691
August	991	207	57	41	686
Sept	921	190	43	40	649
October	970	172	48	37	713
November	970	175	55	39	700
December	1,052	217	48	42	745
Year 2023					
January	995	151	62	36	745
February	846	121	42	33	650
March	876	137	55	30	654
April	787	83	57	29	618
May	808	117	35	25	631
June	795	119	53	22	601
July	833	169	36	24	604
Year to Date					
2021	6,552	1,205	404	258	4,686
2022	6,900	1,269	468	225	4,939
2023	5,939	897	340	198	4,504
Rolling 12 Months Ending in July					
2022	11,649	2,217	731	414	8,287
2023	10,844	1,858	591	397	7,998

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	480,584	350,574	119,364	508	10,138
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	49,573	35,728	12,901	46	898
February	40,637	28,683	11,120	44	790
March	35,148	24,262	9,962	32	893
April	31,570	22,108	8,622	23	817
May	35,822	26,485	8,435	29	873
June	42,502	32,034	9,573	46	849
July	50,239	38,041	11,308	49	841
August	49,099	36,431	11,780	50	838
Sept	38,028	28,269	8,927	48	783
October	32,284	23,441	7,956	45	842
November	33,139	23,408	8,855	47	828
December	42,544	31,682	9,926	49	887
Year 2023					
January	35,518	27,444	7,150	41	883
February	27,534	20,112	6,612	39	771
March	29,276	21,274	7,191	35	775
April	23,410	16,158	6,481	35	737
May	26,187	18,592	6,808	31	756
June	34,260	26,327	7,180	24	729
July	45,004	34,610	9,622	28	744
Year to Date					
2021	303,667	223,920	73,811	306	5,629
2022	285,491	207,342	71,920	269	5,960
2023	221,189	164,517	51,044	233	5,396
Rolling 12 Months Ending in July					
2022	493,493	358,269	124,696	497	10,031
2023	416,282	307,749	98,488	472	9,574

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 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	29,207	19,909	8,541	225	532
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	5,018	2,418	2,526	31	43
February	1,810	1,283	477	14	37
March	1,705	1,326	329	13	37
April	1,383	1,110	228	15	30
May	1,575	1,297	218	26	34
June	1,676	1,320	303	19	34
July	1,877	1,411	411	20	36
August	1,866	1,386	429	19	33
Sept	1,788	1,438	298	12	40
October	1,826	1,460	321	12	33
November	1,703	1,391	271	11	30
December	6,978	4,069	2,731	33	144
Year 2023					
January	1,821	1,489	264	17	51
February	1,988	1,376	564	11	36
March	1,754	1,381	319	10	43
April	1,618	1,300	273	7	37
May	1,799	1,399	353	11	35
June	1,658	1,385	220	11	41
July	1,715	1,306	356	13	39
Year to Date					
2021	12,589	9,776	2,395	152	266
2022	15,045	10,166	4,491	138	250
2023	12,353	9,638	2,351	81	283
Rolling 12 Months Ending in July					
2022	24,090	17,240	6,198	236	416
2023	26,514	19,381	6,401	168	564

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	2,545	123	368	459	1,595
Year 2021					
January	231	4	25	34	168
February	317	26	59	51	182
March	189	5	22	33	129
April	151	5	20	28	97
May	137	3	16	28	90
June	120	4	13	19	83
July	135	3	18	25	89
August	150	5	19	21	105
Sept	135	6	15	17	96
October	174	7	19	25	124
November	161	5	27	20	108
December	173	6	24	30	112
Year 2022					
January	365	29	61	91	183
February	208	14	15	29	149
March	187	7	26	33	121
April	150	5	19	26	100
May	153	6	20	27	99
June	150	5	21	19	105
July	200	7	26	39	129
August	147	6	27	30	84
Sept	157	7	28	11	111
October	169	8	32	14	116
November	166	6	33	14	113
December	493	23	58	125	287
Year 2023					
January	259	7	35	55	162
February	197	9	29	24	135
March	224	6	26	25	167
April	180	6	29	8	136
May	154	9	29	11	105
June	147	7	26	16	98
July	139	6	25	17	92
Year to Date					
2021	1,280	51	173	217	839
2022	1,412	73	189	264	886
2023	1,300	51	199	156	894
Rolling 12 Months Ending in July					
2022	2,205	103	294	378	1,431
2023	2,433	101	377	351	1,603

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 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	31,751	20,032	8,909	684	2,127
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	5,383	2,448	2,587	123	226
February	2,018	1,297	492	43	185
March	1,892	1,333	355	46	158
April	1,534	1,115	247	41	130
May	1,728	1,304	238	53	133
June	1,826	1,326	324	38	138
July	2,077	1,417	436	59	164
August	2,014	1,391	456	49	117
Sept	1,945	1,446	326	22	151
October	1,996	1,467	353	27	149
November	1,869	1,397	303	26	143
December	7,470	4,091	2,790	158	431
Year 2023					
January	2,079	1,496	299	72	213
February	2,185	1,385	594	35	171
March	1,978	1,388	345	35	210
April	1,798	1,306	303	16	174
May	1,953	1,409	382	22	140
June	1,805	1,392	246	27	139
July	1,854	1,312	381	31	131
Year to Date					
2021	13,869	9,826	2,568	369	1,105
2022	16,458	10,239	4,680	403	1,136
2023	13,653	9,689	2,550	238	1,177
Rolling 12 Months Ending in July					
2022	26,294	17,343	6,491	614	1,847
2023	28,947	19,482	6,778	519	2,168

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	2,887	2,271	490	3	123
Year 2021					
January	282	211	59	0	12
February	274	223	41	0	9
March	260	203	44	0	12
April	173	107	56	0	10
May	220	148	59	0	12
June	195	148	37	0	11
July	278	219	48	0	10
August	299	238	52	0	9
Sept	255	190	56	0	9
October	262	202	49	0	10
November	325	256	57	0	11
December	247	178	58	0	10
Year 2022					
January	220	166	44	0	10
February	238	180	47	0	12
March	193	143	41	0	9
April	205	156	40	0	9
May	271	212	47	0	12
June	268	224	34	0	9
July	209	177	NM	0	10
August	231	178	42	0	11
Sept	262	210	42	0	10
October	240	192	38	0	10
November	242	178	52	0	12
December	307	254	43	0	9
Year 2023					
January	140	116	16	0	8
February	128	107	14	0	7
March	114	73	29	0	12
April	104	74	NM	0	7
May	99	76	16	0	7
June	124	107	11	0	6
July	220	196	15	0	9
Year to Date					
2021	1,682	1,260	345	0	77
2022	1,605	1,259	273	2	70
2023	930	750	123	0	56
Rolling 12 Months Ending in July					
2022	2,993	2,322	NM	3	121
2023	2,212	1,763	NM	1	109

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	734	23	121	13	577
Year 2021					
January	74	1	15	0	58
February	65	1	10	1	52
March	67	0	11	0	55
April	62	0	10	0	52
May	68	0	9	0	59
June	59	1	9	0	49
July	63	1	10	0	52
August	61	7	9	0	45
Sept	62	1	9	0	52
October	58	1	5	1	51
November	57	2	8	2	46
December	65	4	9	2	50
Year 2022					
January	55	2	10	2	42
February	63	8	8	2	45
March	73	1	23	2	47
April	58	0	11	1	45
May	70	1	10	2	56
June	55	1	9	2	43
July	50	1	NM	1	46
August	72	1	11	0	60
Sept	49	1	8	0	40
October	64	1	12	0	51
November	70	6	8	1	56
December	56	0	9	1	46
Year 2023					
January	66	1	31	1	32
February	48	1	24	0	23
March	83	2	32	0	49
April	48	2	NM	0	38
May	86	0	39	0	48
June	68	0	26	0	42
July	79	1	34	0	44
Year to Date					
2021	457	5	74	1	377
2022	422	15	73	11	324
2023	478	7	194	2	275
Rolling 12 Months Ending in July					
2022	726	30	NM	16	568
2023	790	15	NM	4	528

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2013-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	1,263
2016	5,352	3,433	705	10	1,204
2017	4,467	2,742	657	17	1,050
2018	4,552	2,752	797	12	991
2019	3,563	2,083	571	7	900
2020	3,856	2,276	782	4	795
2021	3,830	2,344	731	7	748
2022	3,620	2,294	610	16	699
Year 2021					
January	356	212	74	0	69
February	339	224	51	1	62
March	326	204	55	0	67
April	235	107	66	0	63
May	288	148	68	0	71
June	254	149	46	0	59
July	341	220	58	0	62
August	360	245	61	0	54
Sept	317	190	65	0	62
October	321	204	54	1	62
November	382	258	65	2	57
December	311	183	67	2	60
Year 2022					
January	275	168	54	2	52
February	301	188	54	2	57
March	266	144	64	2	56
April	263	156	51	2	54
May	341	214	57	2	68
June	322	225	43	2	52
July	259	178	NM	1	57
August	303	179	53	0	71
Sept	311	211	50	0	50
October	304	193	50	0	61
November	313	184	60	1	68
December	362	255	51	2	55
Year 2023					
January	206	116	47	2	41
February	177	108	39	0	29
March	197	75	61	0	60
April	153	77	NM	0	45
May	185	76	54	0	55
June	192	107	36	0	48
July	299	197	49	0	53
Year to Date					
2021	2,138	1,265	419	1	454
2022	2,027	1,273	346	14	394
2023	1,408	757	317	2	332
Rolling 12 Months Ending in July					
2022	3,719	2,352	NM	19	689
2023	3,001	1,778	NM	5	637

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2013-July 2023 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	12,384,883	6,342,093	5,411,303	44,868	586,618
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	984,417	502,319	425,211	3,966	52,921
February	835,266	417,171	367,916	3,541	46,637
March	802,623	404,905	344,167	3,668	49,883
April	770,444	391,392	330,734	3,415	44,903
May	946,936	485,519	410,994	3,450	46,973
June	1,165,982	616,026	499,061	3,575	47,320
July	1,420,388	743,295	621,241	4,222	51,629
August	1,398,719	718,694	623,480	4,330	52,215
Sept	1,143,581	575,956	516,443	3,877	47,305
October	972,617	491,142	430,353	3,341	47,781
November	927,594	476,124	398,628	3,507	49,335
December	1,016,315	519,550	443,074	3,976	49,716
Year 2023					
January	992,177	502,663	434,623	3,787	51,103
February	892,616	447,712	394,864	3,459	46,581
March	952,646	484,760	414,487	3,724	49,675
April	885,726	457,716	382,193	3,657	42,160
May	1,018,046	539,897	428,037	3,587	46,525
June	1,195,941	617,825	524,126	4,048	49,943
July	1,494,017	766,258	670,915	4,577	52,267
Year to Date					
2021	6,443,377	3,324,113	2,760,138	25,484	333,643
2022	6,926,056	3,560,627	2,999,325	25,838	340,266
2023	7,431,169	3,816,831	3,249,244	26,839	338,254
Rolling 12 Months Ending in July					
2022	11,985,248	6,112,956	5,234,434	45,891	591,966
2023	12,889,995	6,598,297	5,661,222	45,870	584,606

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2013-July 2023 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	1,206,012	51,514	313,065	68,143	773,290
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	113,177	4,751	28,988	6,969	72,469
February	99,788	3,963	25,617	6,118	64,091
March	104,859	3,792	26,380	6,122	68,564
April	94,357	3,140	23,069	5,540	62,608
May	95,573	3,993	24,966	5,205	61,409
June	96,359	4,439	26,375	5,109	60,436
July	103,216	5,488	29,989	5,571	62,167
August	102,978	5,338	27,741	5,735	64,163
Sept	95,359	4,259	25,034	5,120	60,946
October	96,194	3,746	24,428	5,082	62,937
November	98,967	4,089	24,270	5,365	65,242
December	105,185	4,515	26,207	6,207	68,256
Year 2023					
January	107,771	4,643	26,052	6,059	71,018
February	97,277	4,187	25,162	5,613	62,316
March	104,480	4,162	26,568	5,911	67,839
April	93,297	3,643	23,631	4,905	61,119
May	94,015	4,204	22,741	4,912	62,159
June	97,946	4,748	24,987	5,248	62,962
July	103,205	5,655	27,827	5,606	64,117
Year to Date					
2021	708,425	28,738	178,191	40,970	460,526
2022	707,329	29,566	185,384	40,634	451,745
2023	697,992	31,241	176,967	38,255	451,529
Rolling 12 Months Ending in July					
2022	1,220,745	49,931	314,988	70,758	785,068
2023	1,196,674	53,189	304,647	65,764	773,074

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2013-July 2023 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	13,590,895	6,393,607	5,724,368	113,012	1,359,908
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	1,097,594	507,070	454,199	10,934	125,390
February	935,055	421,134	393,533	9,660	110,728
March	907,482	408,697	370,548	9,790	118,447
April	864,800	394,532	353,802	8,956	107,510
May	1,042,509	489,511	435,960	8,655	108,382
June	1,262,342	620,465	525,437	8,684	107,756
July	1,523,604	748,783	651,230	9,793	113,797
August	1,501,697	724,032	651,222	10,065	116,378
Sept	1,238,941	580,215	541,477	8,996	108,252
October	1,068,810	494,888	454,781	8,423	110,718
November	1,026,561	480,213	422,898	8,872	114,577
December	1,121,500	524,065	469,280	10,182	117,972
Year 2023					
January	1,099,948	507,306	460,675	9,846	122,121
February	989,893	451,898	420,026	9,072	108,897
March	1,057,126	488,923	441,054	9,635	117,513
April	979,023	461,358	405,823	8,563	103,279
May	1,112,061	544,102	450,777	8,498	108,684
June	1,293,886	622,573	549,113	9,296	112,905
July	1,597,223	771,913	698,742	10,184	116,384
Year to Date					
2021	7,151,803	3,352,851	2,938,329	66,454	794,169
2022	7,633,385	3,590,193	3,184,709	66,472	792,011
2023	8,129,160	3,848,072	3,426,211	65,094	789,783
Rolling 12 Months Ending in July					
2022	13,205,993	6,162,887	5,549,422	116,649	1,377,034
2023	14,086,669	6,651,486	5,965,869	111,634	1,357,681

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	212,574	20,879	173,813	15,753	2,130
Year 2021					
January	21,051	2,121	17,209	1,469	252
February	18,681	1,812	15,289	1,324	254
March	20,782	1,976	17,070	1,446	291
April	19,174	1,885	15,713	1,319	258
May	19,935	1,982	16,398	1,327	229
June	19,143	1,893	15,658	1,381	210
July	19,628	1,946	16,084	1,396	203
August	19,148	1,917	15,679	1,374	178
Sept	18,571	1,841	15,217	1,365	148
October	18,409	1,732	15,133	1,383	161
November	17,677	1,746	14,414	1,352	165
December	19,678	1,981	16,167	1,337	193
Year 2022					
January	18,767	1,810	15,353	1,430	174
February	17,388	1,688	14,238	1,303	160
March	19,222	1,911	15,663	1,471	177
April	16,872	1,672	14,046	1,010	144
May	18,611	1,874	15,291	1,264	181
June	18,288	1,828	15,015	1,259	186
July	18,197	1,802	14,863	1,352	181
August	17,542	1,722	14,348	1,285	187
Sept	16,956	1,619	13,920	1,245	172
October	17,852	1,722	14,577	1,367	187
November	16,905	1,676	13,717	1,335	177
December	15,974	1,555	12,781	1,432	205
Year 2023					
January	17,698	1,793	14,283	1,411	210
February	15,423	1,581	12,392	1,232	218
March	16,623	1,728	13,364	1,269	262
April	14,668	1,471	11,795	1,186	217
May	16,222	1,627	13,330	1,078	187
June	15,946	1,594	13,031	1,097	225
July	16,163	1,564	13,193	1,211	194
Year to Date					
2021	138,394	13,614	113,421	9,661	1,697
2022	127,345	12,584	104,469	9,089	1,203
2023	112,743	11,357	91,389	8,484	1,513
Rolling 12 Months Ending in July					
2022	220,827	21,800	181,079	15,900	2,048
2023	197,972	19,651	160,733	15,148	2,440

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	4,621	5	2,547	817	1,253
Year 2021					
January	376	1	192	73	111
February	332	0	168	55	109
March	388	1	196	72	120
April	355	0	186	48	120
May	292	0	121	59	111
June	339	1	192	47	99
July	283	0	139	65	78
August	340	0	209	57	73
Sept	332	0	197	70	63
October	312	0	190	56	65
November	279	0	137	66	76
December	403	0	227	73	102
Year 2022					
January	462	0	267	81	114
February	435	0	257	69	109
March	540	1	320	78	141
April	355	0	202	70	82
May	278	0	135	51	92
June	338	0	184	65	88
July	353	0	190	66	97
August	337	0	172	74	91
Sept	339	0	171	76	92
October	368	0	196	69	103
November	389	0	206	64	119
December	427	0	247	55	125
Year 2023					
January	463	0	266	64	133
February	384	0	217	52	115
March	402	0	230	49	123
April	388	0	210	65	112
May	281	0	151	40	91
June	329	0	178	53	98
July	376	0	198	65	112
Year to Date					
2021	2,364	3	1,194	418	749
2022	2,760	3	1,555	480	723
2023	2,624	2	1,450	388	784
Rolling 12 Months Ending in July					
2022	4,426	5	2,516	802	1,103
2023	4,485	4	2,442	726	1,314

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	217,195	20,883	176,360	16,570	3,383
Year 2021					
January	21,427	2,121	17,401	1,541	363
February	19,013	1,813	15,457	1,379	363
March	21,170	1,976	17,266	1,518	411
April	19,529	1,885	15,899	1,367	377
May	20,227	1,982	16,518	1,386	340
June	19,482	1,894	15,851	1,427	310
July	19,911	1,946	16,223	1,461	281
August	19,488	1,917	15,888	1,431	251
Sept	18,903	1,842	15,414	1,435	212
October	18,720	1,732	15,323	1,439	226
November	17,956	1,746	14,551	1,418	241
December	20,082	1,981	16,395	1,410	296
Year 2022					
January	19,228	1,810	15,620	1,511	288
February	17,823	1,688	14,495	1,371	269
March	19,762	1,912	15,983	1,549	318
April	17,227	1,672	14,248	1,081	226
May	18,889	1,874	15,426	1,315	273
June	18,626	1,828	15,199	1,324	274
July	18,550	1,803	15,053	1,417	277
August	17,879	1,722	14,520	1,359	278
Sept	17,295	1,620	14,091	1,321	264
October	18,220	1,722	14,773	1,435	290
November	17,294	1,677	13,924	1,398	296
December	16,401	1,555	13,029	1,487	330
Year 2023					
January	18,161	1,793	14,549	1,475	343
February	15,808	1,581	12,610	1,284	333
March	17,025	1,728	13,594	1,318	385
April	15,057	1,472	12,005	1,251	329
May	16,503	1,627	13,481	1,117	278
June	16,275	1,594	13,209	1,150	322
July	16,540	1,565	13,392	1,277	307
Year to Date					
2021	140,758	13,618	114,615	10,080	2,445
2022	130,105	12,587	106,024	9,569	1,926
2023	115,367	11,359	92,839	8,873	2,297
Rolling 12 Months Ending in July					
2022	225,253	21,806	183,594	16,701	3,151
2023	202,458	19,655	163,175	15,874	3,754

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	14,497	274	11,865	2,357	1
Year 2021					
January	1,270	20	1,035	214	1
February	1,122	10	937	176	0
March	1,274	17	1,055	202	0
April	1,238	23	1,004	211	0
May	1,245	24	1,018	203	1
June	1,300	26	1,063	211	1
July	1,361	9	1,121	230	1
August	1,350	27	1,093	230	1
Sept	1,303	23	1,060	219	1
October	1,248	23	1,029	196	1
November	1,216	27	977	212	1
December	1,295	24	1,051	219	0
Year 2022					
January	1,204	22	994	188	0
February	1,109	20	915	173	0
March	1,205	17	987	201	0
April	1,197	23	967	206	0
May	1,218	28	992	197	0
June	1,242	25	1,004	212	0
July	1,265	25	1,039	201	0
August	1,239	28	1,016	196	0
Sept	1,191	18	982	191	0
October	1,204	24	980	200	0
November	1,206	23	978	204	0
December	1,218	21	1,009	187	0
Year 2023					
January	1,202	24	921	257	0
February	1,045	15	801	228	0
March	1,110	21	850	238	0
April	1,063	21	790	251	0
May	1,162	21	880	261	0
June	1,177	26	755	396	0
July	1,245	24	620	601	0
Year to Date					
2021	8,810	128	7,233	1,445	4
2022	8,439	160	6,900	1,378	1
2023	8,003	153	5,618	2,232	0
Rolling 12 Months Ending in July					
2022	14,851	284	12,109	2,453	5
2023	14,061	267	10,583	3,210	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.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	1,551	0	824	587	140
Year 2021					
January	155	0	75	63	17
February	121	0	70	45	6
March	142	0	71	57	14
April	130	0	57	56	18
May	139	0	71	54	13
June	139	0	71	51	16
July	154	0	75	63	16
August	154	0	76	62	17
Sept	146	0	71	60	15
October	139	0	71	54	15
November	137	0	80	44	13
December	154	0	85	57	13
Year 2022					
January	140	0	74	56	10
February	123	0	66	51	6
March	121	0	63	51	7
April	118	0	66	42	9
May	134	0	74	49	11
June	132	0	71	48	14
July	140	0	75	51	15
August	142	0	71	56	15
Sept	128	0	68	51	10
October	119	0	59	46	14
November	132	0	68	49	14
December	121	0	71	37	14
Year 2023					
January	125	0	78	36	12
February	88	0	69	10	9
March	128	0	66	48	14
April	121	0	68	44	9
May	131	0	71	45	14
June	117	0	33	84	0
July	137	0	41	95	0
Year to Date					
2021	980	0	491	389	100
2022	909	0	488	348	72
2023	846	0	426	363	57
Rolling 12 Months Ending in July					
2022	1,640	0	869	625	145
2023	1,489	0	763	602	125

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	16,048	274	12,690	2,944	141
Year 2021					
January	1,425	20	1,110	277	17
February	1,243	10	1,007	221	6
March	1,415	17	1,126	259	14
April	1,369	23	1,061	267	18
May	1,384	24	1,089	257	14
June	1,439	26	1,134	262	17
July	1,515	9	1,196	294	16
August	1,504	27	1,168	292	18
Sept	1,449	23	1,130	279	16
October	1,388	23	1,099	249	16
November	1,353	27	1,056	256	14
December	1,449	24	1,136	276	13
Year 2022					
January	1,344	22	1,068	244	10
February	1,232	20	981	224	6
March	1,327	17	1,051	252	7
April	1,314	23	1,034	248	9
May	1,351	28	1,066	246	11
June	1,374	25	1,075	260	14
July	1,405	25	1,113	252	15
August	1,381	28	1,086	252	15
Sept	1,319	18	1,049	242	10
October	1,324	24	1,039	246	14
November	1,337	23	1,046	253	14
December	1,339	21	1,080	224	14
Year 2023					
January	1,327	24	999	292	12
February	1,132	15	870	239	9
March	1,238	21	916	286	14
April	1,183	21	858	296	9
May	1,293	21	951	306	14
June	1,294	26	788	480	0
July	1,382	24	661	696	0
Year to Date					
2021	9,791	128	7,724	1,835	104
2022	9,348	160	7,388	1,726	73
2023	8,849	153	6,045	2,595	57
Rolling 12 Months Ending in July					
2022	16,491	284	12,979	3,079	149
2023	15,549	267	11,346	3,812	125

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2013-July 2023 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	322,124	45,492	126,076	1,154	149,403
Year 2021					
January	29,254	3,269	12,084	64	13,836
February	26,391	3,483	11,297	95	11,516
March	27,443	3,036	11,103	55	13,247
April	24,196	2,702	8,785	56	12,654
May	26,614	3,087	10,162	44	13,321
June	27,589	3,594	10,874	96	13,026
July	30,352	5,009	11,638	118	13,587
August	29,979	4,653	11,800	108	13,418
Sept	27,359	3,659	10,765	97	12,838
October	25,444	2,696	9,910	79	12,760
November	25,753	2,681	10,495	75	12,501
December	27,880	4,000	10,641	110	13,129
Year 2022					
January	27,078	3,652	10,262	105	13,059
February	27,785	4,156	11,626	97	11,906
March	26,589	3,299	10,808	74	12,409
April	22,971	2,362	8,363	77	12,169
May	26,452	3,738	9,780	110	12,823
June	28,728	4,128	11,287	129	13,184
July	31,073	5,111	12,150	119	13,692
August	30,081	5,040	11,590	171	13,281
Sept	25,576	3,849	10,353	81	11,293
October	23,175	3,066	9,366	42	10,701
November	25,467	2,936	9,994	72	12,465
December	27,149	4,155	10,497	77	12,420
Year 2023					
January	26,879	3,651	10,572	76	12,580
February	22,656	3,109	8,318	47	11,182
March	23,431	2,459	9,112	55	11,805
April	19,167	1,190	6,858	57	11,063
May	24,211	2,717	9,345	24	12,124
June	23,315	3,350	8,681	68	11,217
July	25,207	4,324	9,584	58	11,241
Year to Date					
2021	191,838	24,179	75,944	529	91,187
2022	190,676	26,446	74,275	712	89,243
2023	164,866	20,799	62,471	385	81,212
Rolling 12 Months Ending in July					
2022	327,091	44,135	127,886	1,181	153,889
2023	296,315	39,845	114,271	827	141,371

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	793,273	3,437	25,048	3,158	761,630
Year 2021					
January	75,180	377	2,146	229	72,427
February	66,581	341	1,876	315	64,049
March	72,900	336	1,945	227	70,391
April	72,574	312	1,696	153	70,412
May	73,777	208	1,349	125	72,095
June	71,452	268	1,956	276	68,952
July	75,597	390	1,840	300	73,068
August	74,458	304	1,955	316	71,882
Sept	71,697	17	1,817	308	69,555
October	71,228	177	1,507	213	69,330
November	69,883	378	1,922	207	67,376
December	75,661	411	1,794	290	73,166
Year 2022					
January	70,001	238	2,376	282	67,105
February	63,947	298	1,922	281	61,446
March	64,595	339	2,006	228	62,022
April	64,979	244	1,886	171	62,678
May	68,773	264	2,026	274	66,209
June	67,604	281	2,059	367	64,898
July	69,472	331	2,013	327	66,801
August	68,887	327	2,104	375	66,081
Sept	60,849	289	2,259	199	58,102
October	62,755	242	2,080	149	60,284
November	65,062	292	2,104	250	62,416
December	66,350	293	2,211	256	63,590
Year 2023					
January	68,250	302	1,931	249	65,768
February	59,543	224	2,133	163	57,023
March	63,714	367	3,104	223	60,020
April	56,317	152	2,171	152	53,843
May	60,783	257	1,959	81	58,486
June	56,236	242	2,259	254	53,481
July	58,514	277	1,536	129	56,573
Year to Date					
2021	508,060	2,232	12,809	1,625	491,394
2022	469,370	1,994	14,289	1,930	451,158
2023	423,357	1,820	15,093	1,251	405,194
Rolling 12 Months Ending in July					
2022	832,296	3,282	23,284	3,263	802,468
2023	747,260	3,263	25,852	2,479	715,666

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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-July 2023 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
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	1,115,397	48,929	151,124	4,312	911,033
Year 2021					
January	104,434	3,646	14,231	294	86,264
February	92,972	3,824	13,173	410	75,565
March	100,342	3,373	13,049	282	83,639
April	96,770	3,014	10,481	210	83,066
May	100,391	3,295	11,512	169	85,416
June	99,041	3,862	12,830	372	81,978
July	105,948	5,398	13,478	418	86,655
August	104,437	4,958	13,755	424	85,300
Sept	99,055	3,676	12,582	404	82,393
October	96,672	2,873	11,417	292	82,090
November	95,636	3,059	12,417	282	79,878
December	103,541	4,411	12,434	400	86,295
Year 2022					
January	97,079	3,890	12,638	387	80,164
February	91,732	4,454	13,548	378	73,352
March	91,184	3,637	12,815	302	74,430
April	87,950	2,606	10,249	248	74,847
May	95,225	4,002	11,806	384	79,032
June	96,332	4,409	13,345	495	78,082
July	100,545	5,442	14,163	446	80,494
August	98,968	5,367	13,695	545	79,362
Sept	86,425	4,138	12,612	280	69,395
October	85,930	3,308	11,446	191	70,985
November	90,529	3,229	12,098	322	74,881
December	93,499	4,447	12,709	334	76,009
Year 2023					
January	95,129	3,953	12,504	325	78,348
February	82,199	3,333	10,451	210	68,205
March	87,145	2,826	12,215	278	71,825
April	75,483	1,341	9,028	209	64,905
May	84,994	2,974	11,304	105	70,610
June	79,551	3,591	10,940	322	64,698
July	83,721	4,600	11,120	187	67,814
Year to Date					
2021	699,898	26,411	88,753	2,154	582,581
2022	660,046	28,440	88,564	2,641	540,401
2023	588,224	22,619	77,564	1,635	486,405
Rolling 12 Months Ending in July					
2022	1,159,387	47,417	151,170	4,444	956,357
2023	1,043,575	43,108	140,124	3,306	857,037

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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, July 2023 and July 2022 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	6	7	-7.6%	0	0	6	7	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	-18.0%	0	0	1	1	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	6	6	-6.5%	0	0	6	6	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	1,152	1,148	0.4%	0	0	1,150	1,146	0	0	2	2
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	1,152	1,148	0.4%	0	0	1,150	1,146	0	0	2	2
East North Central	7,748	10,395	-25.0%	4,888	6,317	2,823	4,037	NM	2	37	39
Illinois	1,817	2,530	-28.0%	78	103	1,708	2,395	NM	0	31	32
Indiana	2,103	2,775	-24.0%	1,944	2,575	159	199	0	1	0	0
Michigan	1,050	2,033	-48.0%	1,046	2,019	4	14	0	0	NM	NM
Ohio	1,168	1,684	-31.0%	216	254	952	1,430	0	0	0	0
Wisconsin	1,610	1,374	17.0%	1,604	1,367	0	0	0	0	NM	7
West North Central	9,167	11,103	-17.0%	9,092	11,023	0	0	0	2	75	78
Iowa	1,414	1,450	-2.4%	1,370	1,402	0	0	0	2	45	46
Kansas	1,313	1,750	-25.0%	1,313	1,750	0	0	0	0	0	0
Minnesota	822	1,226	-33.0%	819	1,221	0	0	0	1	NM	4
Missouri	2,487	3,038	-18.0%	2,487	3,038	0	0	0	0	0	0
Nebraska	1,093	1,383	-21.0%	1,069	1,359	0	0	0	0	25	24
North Dakota	1,906	2,097	-9.1%	1,903	2,094	0	0	0	0	NM	3
South Dakota	131	161	-18.0%	131	161	0	0	0	0	0	0
South Atlantic	6,294	5,531	14.0%	5,907	4,816	382	705	0	0	NM	10
Delaware	6	0	--	0	0	6	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	643	625	3.0%	643	624	0	0	0	0	NM	NM
Georgia	1,259	807	56.0%	1,258	805	0	0	0	0	NM	NM
Maryland	187	205	-8.7%	0	0	187	205	0	0	0	0
North Carolina	1,103	687	61.0%	1,103	685	0	0	0	0	NM	2
South Carolina	834	585	43.0%	833	580	0	4	0	0	0	0
Virginia	107	261	-59.0%	106	256	0	0	0	0	1	5
West Virginia	2,155	2,362	-8.8%	1,965	1,866	190	496	0	0	0	0
East South Central	5,212	5,232	-0.4%	4,911	4,891	292	335	0	0	9	6
Alabama	1,366	1,438	-5.0%	1,365	1,438	0	0	0	0	NM	NM
Kentucky	2,192	2,102	4.3%	2,192	2,102	0	0	0	0	0	0
Mississippi	438	520	-16.0%	146	185	292	335	0	0	0	0
Tennessee	1,215	1,171	3.8%	1,208	1,165	0	0	0	0	8	6
West South Central	7,902	8,808	-10.0%	4,075	4,858	3,827	3,950	0	0	0	1
Arkansas	1,328	1,428	-7.0%	1,119	1,208	208	220	0	0	0	1
Louisiana	443	543	-18.0%	318	309	125	233	0	0	0	0
Oklahoma	596	861	-31.0%	596	861	0	0	0	0	0	0
Texas	5,535	5,977	-7.4%	2,042	2,480	3,493	3,497	0	0	0	0
Mountain	6,408	6,723	-4.7%	5,528	5,881	872	833	0	0	8	9
Arizona	906	888	2.0%	906	888	0	0	0	0	0	0
Colorado	1,123	1,340	-16.0%	1,123	1,340	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	714	667	7.0%	0	0	714	667	0	0	NM	NM
Nevada	175	180	-2.6%	97	98	79	82	0	0	0	0
New Mexico	519	603	-14.0%	519	603	0	0	0	0	0	0
Utah	899	1,100	-18.0%	864	1,062	36	38	0	0	0	0
Wyoming	2,072	1,944	6.6%	2,021	1,890	44	45	0	0	7	9
Pacific Contiguous	227	194	17.0%	0	0	223	189	0	0	5	5
California	4	5	-2.7%	0	0	0	0	0	0	4	5
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	223	190	18.0%	0	0	223	189	0	0	0	0
Pacific Noncontiguous	NM	93	NM	NM	NM	NM	58	NM	4	0	0
Alaska	NM	50	NM	NM	NM	NM	14	NM	4	0	0
Hawaii	0	43	-100.0%	0	0	0	43	0	0	0	0
U.S. Total	44,171	49,235	-10.0%	34,441	37,818	9,586	11,260	4	8	140	150

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

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through July 2023 and July 2022 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	55	130	-58.0%	0	0	55	130	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	7	8	-6.6%	0	0	7	8	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	48	122	-61.0%	0	0	48	122	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	4,862	8,837	-45.0%	0	0	4,850	8,825	0	0	12	11
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	4,862	8,633	-44.0%	0	0	4,850	8,622	0	0	12	11
East North Central	41,137	61,942	-34.0%	25,467	36,109	15,423	25,559	7	8	240	265
Illinois	9,099	15,579	-42.0%	438	607	8,457	14,759	2	2	202	212
Indiana	11,858	16,024	-26.0%	10,767	14,799	1,086	1,218	5	6	0	0
Michigan	7,018	11,674	-40.0%	6,953	11,579	62	94	0	0	3	1
Ohio	6,963	10,814	-36.0%	1,145	1,325	5,818	9,489	0	0	0	0
Wisconsin	6,199	7,852	-21.0%	6,164	7,799	0	0	0	0	35	53
West North Central	46,351	56,414	-18.0%	45,915	55,904	0	0	2	13	433	496
Iowa	5,544	5,504	0.7%	5,293	5,204	0	0	1	8	250	292
Kansas	5,927	7,442	-20.0%	5,927	7,442	0	0	0	0	0	0
Minnesota	4,165	5,375	-23.0%	4,142	5,345	0	0	0	4	22	26
Missouri	13,616	18,444	-26.0%	13,615	18,443	0	0	1	1	0	0
Nebraska	5,940	7,020	-15.0%	5,795	6,862	0	0	0	0	145	157
North Dakota	10,645	11,819	-9.9%	10,629	11,798	0	0	0	0	17	21
South Dakota	514	810	-37.0%	514	810	0	0	0	0	0	0
South Atlantic	26,701	33,076	-19.0%	23,679	28,304	2,959	4,691	1	2	61	79
Delaware	6	67	-91.0%	0	0	6	67	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,160	4,161	-24.0%	3,155	4,156	0	0	0	0	NM	4
Georgia	4,547	5,686	-20.0%	4,528	5,661	0	0	0	0	18	24
Maryland	368	1,420	-74.0%	0	0	368	1,420	0	0	0	0
North Carolina	3,010	4,093	-26.0%	2,998	4,073	0	0	1	2	11	17
South Carolina	3,702	3,601	2.8%	3,686	3,571	13	28	0	0	3	2
Virginia	556	1,150	-52.0%	531	1,119	0	0	0	0	25	31
West Virginia	11,353	12,899	-12.0%	8,781	9,723	2,572	3,176	0	0	0	0
East South Central	25,798	30,851	-16.0%	23,837	28,824	1,909	1,977	0	0	53	50
Alabama	6,626	8,478	-22.0%	6,619	8,475	0	0	0	0	NM	NM
Kentucky	11,866	13,446	-12.0%	11,866	13,446	0	0	0	0	0	0
Mississippi	2,324	3,233	-28.0%	415	1,256	1,909	1,977	0	0	0	0
Tennessee	4,983	5,694	-12.0%	4,937	5,647	0	0	0	0	46	48
West South Central	36,177	48,841	-26.0%	17,102	24,901	19,068	23,909	0	0	8	31
Arkansas	5,494	7,112	-23.0%	4,293	5,652	1,197	1,456	0	0	4	5
Louisiana	1,319	3,484	-62.0%	1,119	1,984	199	1,500	0	0	0	0
Oklahoma	1,950	3,809	-49.0%	1,946	3,783	0	0	0	0	4	26
Texas	27,415	34,435	-20.0%	9,743	13,482	17,671	20,953	0	0	0	0
Mountain	32,291	36,736	-12.0%	27,391	31,812	4,850	4,866	0	0	51	59
Arizona	3,728	4,235	-12.0%	3,728	4,235	0	0	0	0	0	0
Colorado	5,977	6,841	-13.0%	5,977	6,841	0	0	0	0	0	0
Idaho	2	2	-18.0%	0	0	0	0	0	0	2	2
Montana	4,039	3,939	2.5%	0	0	4,037	3,936	0	0	2	3
Nevada	636	886	-28.0%	332	509	304	377	0	0	0	0
New Mexico	2,653	4,353	-39.0%	2,653	4,353	0	0	0	0	0	0
Utah	4,705	5,714	-18.0%	4,481	5,468	224	246	0	0	0	0
Wyoming	10,551	10,766	-2.0%	10,219	10,406	284	306	0	0	48	54
Pacific Contiguous	1,552	1,124	38.0%	0	0	1,519	1,094	0	0	33	30
California	29	27	8.6%	0	0	0	0	0	0	29	27
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1,523	1,097	39.0%	0	0	1,519	1,094	0	0	4	3
Pacific Noncontiguous	326	640	-49.0%	230	219	72	400	24	21	0	0
Alaska	326	319	2.2%	230	219	72	79	24	21	0	0
Hawaii	0	321	-100.0%	0	0	0	321	0	0	0	0
U.S. Total	215,251	278,591	-23.0%	163,620	206,073	50,704	71,452	35	44	891	1,021

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

Table 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, July 2023 and July 2022 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	49	98	-50.0%	3	16	44	81	1	1	1	NM
Connecticut	NM	NM	NM	1	NM	NM	NM	NM	NM	1	NM
Maine	11	8	39.0%	0	0	11	7	0	0	0	NM
Massachusetts	22	54	-59.0%	2	12	20	42	NM	NM	NM	NM
New Hampshire	6	17	-67.0%	0	0	5	17	1	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	0	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	81	89	-8.2%	14	NM	62	44	3	NM	2	2
New Jersey	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
New York	64	66	-2.9%	14	NM	49	NM	NM	NM	0	NM
Pennsylvania	17	22	-22.0%	0	0	13	NM	2	0	2	2
East North Central	91	138	-34.0%	74	83	16	54	0	0	1	1
Illinois	5	NM	NM	3	NM	NM	NM	NM	0	0	0
Indiana	19	40	-53.0%	18	16	0	24	0	0	0	0
Michigan	20	18	14.0%	20	18	0	0	NM	NM	0	0
Ohio	18	33	-45.0%	4	NM	14	26	0	0	0	0
Wisconsin	NM	41	NM	NM	40	0	0	NM	NM	0	0
West North Central	95	147	-35.0%	93	145	NM	NM	0	0	0	0
Iowa	18	26	-31.0%	17	25	0	NM	NM	0	NM	NM
Kansas	NM	24	NM	NM	24	0	0	0	0	0	0
Minnesota	NM	16	NM	NM	15	NM	NM	0	0	0	0
Missouri	21	NM	NM	21	NM	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	7	NM	NM	7	NM	0	0	0	0	0	0
South Dakota	NM	18	NM	NM	18	0	0	NM	NM	0	0
South Atlantic	168	266	-37.0%	104	179	54	62	5	17	5	8
Delaware	6	NM	NM	0	0	6	NM	0	0	0	0
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	46	53	-13.0%	36	51	9	1	0	0	1	1
Georgia	6	23	-75.0%	NM	16	NM	NM	NM	1	2	5
Maryland	24	30	-22.0%	NM	2	23	29	0	NM	0	NM
North Carolina	21	21	-0.5%	19	19	NM	NM	NM	NM	NM	1
South Carolina	13	13	-2.1%	13	13	NM	0	NM	0	0	0
Virginia	37	97	-62.0%	NM	53	14	29	5	15	1	0
West Virginia	16	26	-41.0%	16	26	0	0	0	0	0	0
East South Central	23	33	-30.0%	23	32	NM	NM	0	0	0	1
Alabama	NM	1	NM	NM	NM	NM	NM	0	0	0	1
Kentucky	7	10	-27.0%	7	10	0	0	0	0	0	0
Mississippi	1	0	206.0%	1	0	0	0	0	0	0	0
Tennessee	14	22	-35.0%	14	22	0	0	0	0	0	0
West South Central	35	41	-14.0%	20	20	NM	21	NM	NM	1	0
Arkansas	6	7	-7.5%	5	NM	1	4	0	0	NM	NM
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	6	3	100.0%	6	3	0	0	0	0	0	0
Texas	NM	30	NM	NM	13	NM	NM	NM	NM	0	0
Mountain	23	43	-46.0%	22	42	1	1	NM	NM	0	0
Arizona	4	12	-69.0%	4	12	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	NM	1	NM	NM	NM	NM	1	0	0	0	0
Nevada	3	1	161.0%	3	1	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	6	4	57.0%	6	4	0	0	0	0	0	0
Wyoming	5	13	-64.0%	5	13	0	0	0	0	0	0
Pacific Contiguous	20	12	65.0%	6	7	2	4	1	NM	11	2
California	17	8	113.0%	6	6	0	1	1	0	10	NM
Oregon	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Washington	3	4	-25.0%	NM	NM	2	2	0	0	2	2
Pacific Noncontiguous	1,129	1,011	12.0%	949	846	162	143	2	1	17	20
Alaska	120	127	-5.4%	114	122	0	0	NM	NM	7	6
Hawaii	1,009	883	14.0%	835	724	162	143	2	1	10	15
U.S. Total	1,715	1,877	-8.7%	1,306	1,411	356	411	13	20	39	36

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	457	1,799	-75.0%	36	45	401	1,729	13	16	7	9
Connecticut	144	NM	NM	5	4	136	NM	NM	NM	2	1
Maine	76	290	-74.0%	0	0	71	282	0	2	5	6
Massachusetts	122	864	-86.0%	29	NM	90	830	NM	NM	0	1
New Hampshire	81	479	-83.0%	0	0	73	472	7	7	0	0
Rhode Island	33	NM	NM	0	1	31	NM	1	2	NM	NM
Vermont	NM	10	NM	NM	10	0	0	0	0	0	0
Middle Atlantic	692	1,934	-64.0%	228	871	423	1,033	15	NM	26	21
New Jersey	45	42	8.2%	0	0	44	40	NM	NM	0	1
New York	531	1,686	-68.0%	228	870	289	806	NM	NM	8	5
Pennsylvania	116	207	-44.0%	0	1	89	187	8	4	18	NM
East North Central	745	803	-7.3%	585	592	151	205	1	1	7	4
Illinois	43	62	-31.0%	17	17	26	45	NM	0	0	0
Indiana	128	150	-15.0%	112	126	15	24	0	0	1	1
Michigan	148	167	-12.0%	146	166	0	0	NM	0	2	1
Ohio	140	173	-19.0%	31	37	107	135	0	0	2	1
Wisconsin	286	251	14.0%	280	247	2	1	0	0	3	2
West North Central	767	897	-14.0%	754	882	NM	NM	1	2	1	2
Iowa	132	157	-16.0%	129	154	3	3	0	0	NM	NM
Kansas	119	190	-38.0%	119	190	0	0	0	0	0	0
Minnesota	127	NM	NM	117	NM	NM	NM	1	1	1	1
Missouri	193	277	-30.0%	193	277	0	0	0	1	0	0
Nebraska	79	74	6.8%	79	74	0	0	0	0	0	0
North Dakota	70	36	95.0%	70	36	0	0	0	0	0	0
South Dakota	47	48	-2.0%	47	48	0	0	NM	NM	0	0
South Atlantic	905	1,761	-49.0%	671	1,316	146	293	36	95	53	57
Delaware	NM	NM	NM	1	7	NM	NM	0	0	0	0
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	207	518	-60.0%	185	491	14	17	0	0	7	10
Georgia	65	134	-51.0%	40	100	NM	NM	1	5	23	22
Maryland	75	135	-44.0%	1	10	73	125	1	NM	NM	NM
North Carolina	111	174	-36.0%	94	158	NM	NM	NM	NM	12	9
South Carolina	97	115	-16.0%	89	104	4	4	NM	NM	4	7
Virginia	157	489	-68.0%	81	294	35	98	34	89	7	9
West Virginia	180	153	17.0%	180	153	0	0	0	0	0	0
East South Central	233	281	-17.0%	225	271	6	3	0	0	3	7
Alabama	10	18	-43.0%	NM	9	6	3	0	0	2	5
Kentucky	73	90	-19.0%	73	90	0	0	0	0	0	0
Mississippi	7	7	-0.5%	7	7	0	0	0	0	1	0
Tennessee	143	167	-14.0%	143	166	0	0	0	0	0	1
West South Central	219	318	-31.0%	151	NM	64	115	NM	NM	4	3
Arkansas	47	NM	NM	39	NM	8	13	0	0	NM	NM
Louisiana	8	NM	NM	8	NM	0	0	0	0	0	0
Oklahoma	26	36	-28.0%	23	34	0	0	0	0	2	1
Texas	139	208	-33.0%	81	NM	56	102	NM	NM	1	1
Mountain	211	224	-6.0%	195	215	15	10	NM	NM	1	0
Arizona	33	40	-17.0%	33	40	0	0	NM	NM	0	0
Colorado	44	33	36.0%	43	33	0	0	0	0	1	0
Idaho	0	0	-68.0%	0	0	0	0	0	0	0	0
Montana	11	6	68.0%	NM	NM	10	6	0	0	0	0
Nevada	8	11	-25.0%	7	9	1	3	0	0	0	0
New Mexico	13	36	-65.0%	13	36	0	0	0	0	0	0
Utah	39	32	22.0%	36	31	4	1	0	0	0	0
Wyoming	63	66	-4.3%	63	65	0	0	0	0	0	0
Pacific Contiguous	125	155	-19.0%	50	41	23	93	3	NM	49	21
California	94	128	-27.0%	40	39	15	82	2	0	36	7
Oregon	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Washington	31	26	17.0%	9	NM	8	11	1	NM	13	13
Pacific Noncontiguous	7,998	6,872	16.0%	6,743	5,733	1,112	998	12	14	132	128
Alaska	981	941	4.2%	935	894	0	0	1	7	44	41
Hawaii	7,017	5,931	18.0%	5,808	4,839	1,112	998	11	6	87	87
U.S. Total	12,353	15,045	-18.0%	9,638	10,166	2,351	4,491	81	138	283	250

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 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	69	109	-36.0%	63	84	0	NM	0	0	7	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	65	84	-23.0%	58	79	0	0	0	0	7	5
Ohio	0	20	-100.0%	0	0	0	NM	0	0	0	0
Wisconsin	5	6	-21.0%	5	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	59	34	72.0%	59	33	0	0	0	0	NM	NM
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	59	33	80.0%	59	33	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
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	77	63	22.0%	75	60	0	0	0	0	2	3
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	75	60	25.0%	75	60	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2	3	-37.0%	0	0	0	0	0	0	2	3
Mountain	15	2	635.0%	0	0	15	2	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	2	635.0%	0	0	15	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	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	220	209	5.3%	196	177	15	NM	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.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 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	340	627	-46.0%	283	413	20	182	0	0	37	32
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	309	406	-24.0%	271	374	0	0	0	0	37	32
Ohio	20	182	-89.0%	0	0	20	182	0	0	0	0
Wisconsin	11	39	-71.0%	11	39	0	0	0	0	0	0
West North Central	0	2	-83.0%	0	0	0	0	0	2	0	0
Iowa	0	2	-83.0%	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	263	190	38.0%	260	177	0	0	0	0	2	12
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	260	177	47.0%	260	177	0	0	0	0	0	0
Georgia	2	12	-83.0%	0	0	0	0	0	0	2	12
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	224	687	-67.0%	207	661	0	0	0	0	17	26
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	207	661	-69.0%	207	661	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	17	26	-34.0%	0	0	0	0	0	0	17	26
Mountain	103	92	12.0%	0	0	103	92	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	103	92	12.0%	0	0	103	92	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	930	1,605	-42.0%	750	1,259	123	273	0	2	56	70

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	47,161	48,605	-3.0%	NM	NM	45,681	46,860	544	478	628	843
Connecticut	18,349	18,542	-1.0%	27	28	17,790	18,019	181	163	352	332
Maine	3,088	3,081	0.2%	0	0	3,003	2,774	14	15	70	292
Massachusetts	13,984	15,839	-12.0%	NM	NM	13,329	15,085	320	276	53	83
New Hampshire	4,652	4,214	10.0%	0	0	4,634	4,199	3	2	15	13
Rhode Island	7,088	6,929	2.3%	0	0	6,925	6,783	26	22	137	NM
Vermont	1	0	NM	0	0	0	0	1	0	0	0
Middle Atlantic	197,226	181,171	8.9%	14,976	13,939	178,713	164,033	748	697	2,789	2,502
New Jersey	32,222	32,861	-1.9%	NM	NM	31,615	32,237	158	164	210	224
New York	63,832	58,049	10.0%	14,725	13,653	48,253	43,633	517	449	338	314
Pennsylvania	101,171	90,260	12.0%	13	51	98,844	88,163	74	83	2,240	1,963
East North Central	184,639	151,237	22.0%	69,848	58,386	111,096	89,482	852	828	2,842	2,540
Illinois	39,133	28,106	39.0%	5,065	4,688	33,223	22,624	300	300	544	494
Indiana	28,690	23,108	24.0%	16,219	11,343	11,124	10,530	108	79	1,238	1,155
Michigan	42,321	34,363	23.0%	22,303	17,464	19,502	16,387	250	273	265	238
Ohio	55,252	47,458	16.0%	8,212	7,954	46,717	39,209	152	135	172	160
Wisconsin	19,243	18,202	5.7%	18,049	16,937	530	732	41	41	624	493
West North Central	46,095	36,154	27.0%	38,701	30,305	6,657	5,323	190	170	548	357
Iowa	8,759	6,735	30.0%	8,331	6,425	NM	NM	77	50	350	260
Kansas	5,651	4,946	14.0%	5,531	4,915	0	0	0	0	121	31
Minnesota	13,811	9,311	48.0%	9,634	6,085	4,100	3,149	43	47	34	30
Missouri	10,919	10,628	2.7%	8,285	8,373	2,556	2,174	68	72	10	9
Nebraska	2,581	1,800	43.0%	2,580	1,800	0	0	1	0	0	0
North Dakota	2,043	1,461	40.0%	2,037	1,455	0	0	0	0	6	6
South Dakota	2,330	1,273	83.0%	2,303	1,252	0	0	0	0	NM	NM
South Atlantic	328,808	338,039	-2.7%	270,188	277,700	55,443	57,763	629	361	2,548	2,215
Delaware	6,298	5,709	10.0%	76	139	5,790	5,286	0	0	431	284
District of Columbia	135	NM	NM	0	0	0	0	135	NM	0	0
Florida	151,966	150,518	1.0%	143,566	138,282	7,546	11,372	NM	NM	818	839
Georgia	44,621	49,668	-10.0%	34,085	36,718	10,110	12,574	0	0	426	376
Maryland	13,135	11,190	17.0%	3,851	3,609	8,949	7,433	314	123	21	NM
North Carolina	44,653	53,094	-16.0%	38,117	45,688	6,345	7,210	137	NM	54	71
South Carolina	18,353	22,726	-19.0%	17,548	20,270	731	2,393	0	0	74	63
Virginia	45,777	42,345	8.1%	32,057	31,991	13,178	9,862	8	4	534	487
West Virginia	3,871	2,705	43.0%	888	1,003	2,793	1,632	0	0	189	71
East South Central	115,139	125,657	-8.4%	89,238	94,505	23,925	29,255	88	NM	1,887	1,811
Alabama	46,218	50,183	-7.9%	22,459	21,473	22,885	27,879	0	0	874	831
Kentucky	13,622	17,239	-21.0%	12,496	15,776	1,034	1,375	0	0	93	88
Mississippi	43,823	43,053	1.8%	43,551	42,819	5	0	0	0	267	234
Tennessee	11,475	15,182	-24.0%	10,734	14,437	0	0	88	NM	653	659
West South Central	350,098	350,069	0.0%	149,677	152,503	165,843	162,273	518	576	34,059	34,717
Arkansas	20,635	21,254	-2.9%	19,829	20,467	683	659	NM	NM	86	89
Louisiana	54,361	59,024	-7.9%	36,800	41,137	4,869	5,175	NM	59	12,673	12,653
Oklahoma	46,941	44,331	5.9%	34,481	33,436	12,122	10,530	0	0	339	366
Texas	228,161	225,459	1.2%	58,567	57,463	148,170	145,909	463	477	20,961	21,610
Mountain	110,535	98,332	12.0%	86,623	77,724	22,480	19,372	215	201	1,217	1,035
Arizona	47,284	38,961	21.0%	33,616	27,173	13,611	11,731	57	57	0	0
Colorado	14,988	14,060	6.6%	12,040	11,861	2,846	2,089	4	8	98	101
Idaho	4,657	3,875	20.0%	3,055	2,519	1,537	1,310	14	12	51	34
Montana	807	527	53.0%	710	391	95	135	0	0	NM	NM
Nevada	21,940	21,412	2.5%	19,958	19,704	1,341	1,349	24	24	617	336
New Mexico	10,628	10,147	4.7%	7,468	7,430	2,956	2,666	52	NM	153	0
Utah	8,477	7,736	9.6%	8,202	7,372	NM	NM	64	50	117	223
Wyoming	1,754	1,615	8.6%	1,575	1,275	0	0	0	0	179	340
Pacific Contiguous	110,933	88,258	26.0%	43,337	34,967	61,077	46,881	793	825	5,726	5,586
California	82,107	68,994	19.0%	25,222	22,681	50,875	40,303	710	801	5,300	5,210
Oregon	15,028	9,721	55.0%	8,834	5,946	6,130	3,718	19	21	45	36
Washington	13,797	9,543	45.0%	9,280	6,340	4,073	2,860	63	3	381	339
Pacific Noncontiguous	3,384	2,867	18.0%	3,360	2,842	0	0	0	0	23	25
Alaska	3,384	2,867	18.0%	3,360	2,842	0	0	0	0	23	25
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,494,017	1,420,388	5.2%	766,258	743,295	670,915	621,241	4,577	4,222	52,267	51,629

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

Table 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through July 2023 and July 2022 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	230,921	235,277	-1.9%	NM	782	223,120	226,634	2,867	2,830	4,203	5,031
Connecticut	97,748	95,959	1.9%	288	174	94,352	92,858	954	923	2,154	2,004
Maine	13,577	16,042	-15.0%	0	0	12,724	14,419	86	89	767	1,534
Massachusetts	63,246	69,690	-9.2%	NM	NM	60,774	66,870	1,678	1,652	352	563
New Hampshire	18,558	19,524	-4.9%	0	0	18,432	19,404	30	16	96	104
Rhode Island	37,788	34,055	11.0%	0	0	36,838	33,084	116	147	835	824
Vermont	5	7	-33.0%	1	4	0	0	4	3	0	0
Middle Atlantic	950,239	905,223	5.0%	59,701	58,260	869,431	827,646	3,961	4,045	17,146	15,273
New Jersey	127,984	130,689	-2.1%	NM	692	125,034	128,086	827	856	1,333	1,055
New York	258,870	263,538	-1.8%	58,841	57,392	195,250	201,252	2,697	2,681	2,082	2,213
Pennsylvania	563,386	510,996	10.0%	69	176	549,148	498,308	437	508	13,731	12,004
East North Central	930,792	776,555	20.0%	348,938	275,263	558,471	478,198	4,892	4,898	18,492	18,196
Illinois	143,300	111,654	28.0%	15,117	14,219	123,460	92,613	1,520	1,605	3,203	3,217
Indiana	159,166	137,655	16.0%	86,875	61,670	63,533	67,163	622	508	8,136	8,314
Michigan	221,481	158,762	40.0%	102,378	69,895	115,268	85,151	1,767	1,806	2,068	1,910
Ohio	298,681	272,305	9.7%	43,216	40,985	253,736	229,503	709	674	1,020	1,143
Wisconsin	108,163	96,179	12.0%	101,351	88,494	2,472	3,767	275	306	4,065	3,612
West North Central	195,011	143,880	36.0%	158,053	116,153	32,141	24,066	1,312	1,034	3,505	2,628
Iowa	41,182	27,639	49.0%	38,667	25,774	NM	NM	501	283	2,012	1,582
Kansas	23,971	16,537	45.0%	23,144	16,167	0	0	0	0	827	370
Minnesota	63,331	45,620	39.0%	40,959	28,928	21,774	16,062	280	302	319	327
Missouri	37,759	35,059	7.7%	26,773	26,509	10,365	8,003	526	446	95	101
Nebraska	9,360	5,975	57.0%	9,355	5,971	0	0	5	4	0	0
North Dakota	10,322	7,879	31.0%	10,252	7,787	0	0	0	0	70	92
South Dakota	9,085	5,173	76.0%	8,904	5,016	0	0	0	0	182	156
South Atlantic	1,727,325	1,698,622	1.7%	1,438,811	1,421,146	267,869	259,005	3,889	3,203	16,756	15,269
Delaware	20,321	18,334	11.0%	115	261	16,962	15,693	0	0	3,244	2,380
District of Columbia	783	649	21.0%	0	0	0	0	783	649	0	0
Florida	808,349	805,710	0.3%	764,551	752,581	38,729	47,745	223	202	4,846	5,181
Georgia	257,482	247,681	4.0%	204,118	191,818	50,587	53,219	0	0	2,777	2,645
Maryland	65,189	56,057	16.0%	18,335	14,976	44,820	39,488	1,898	1,458	136	136
North Carolina	238,189	254,946	-6.6%	200,210	217,148	36,614	36,418	878	860	487	520
South Carolina	106,131	106,576	-0.4%	103,195	99,120	2,374	6,960	0	0	563	496
Virginia	213,413	197,810	7.9%	144,764	141,946	65,189	52,684	106	34	3,354	3,145
West Virginia	17,466	10,860	61.0%	3,523	3,297	12,594	6,798	0	0	1,349	765
East South Central	614,209	643,321	-4.5%	455,717	474,336	145,609	156,147	569	555	12,313	12,282
Alabama	249,187	259,911	-4.1%	100,576	103,691	142,919	150,614	0	0	5,692	5,606
Kentucky	61,759	82,152	-25.0%	58,495	76,098	2,649	5,430	0	0	616	623
Mississippi	233,791	220,879	5.8%	231,984	219,232	41	52	0	0	1,767	1,595
Tennessee	69,471	80,379	-14.0%	64,663	75,314	0	51	569	555	4,238	4,459
West South Central	1,722,765	1,602,786	7.5%	703,207	666,489	793,693	707,872	2,390	2,642	223,475	225,783
Arkansas	108,870	101,716	7.0%	104,439	96,404	3,631	4,308	265	259	536	746
Louisiana	292,024	307,325	-5.0%	185,309	205,421	22,404	15,329	139	357	84,171	86,218
Oklahoma	200,887	160,731	25.0%	139,022	111,878	59,530	46,700	0	0	2,335	2,154
Texas	1,120,984	1,033,013	8.5%	274,437	252,787	708,128	641,535	1,987	2,026	136,432	136,666
Mountain	545,298	466,196	17.0%	433,770	365,871	103,673	92,218	1,257	1,194	6,598	6,913
Arizona	213,282	180,028	18.0%	153,732	127,292	59,229	52,397	321	339	0	0
Colorado	78,199	69,320	13.0%	64,019	59,247	13,514	9,377	8	10	658	686
Idaho	21,925	17,751	24.0%	13,341	10,632	8,154	6,722	100	95	331	302
Montana	5,397	2,539	113.0%	4,704	2,173	671	343	0	0	NM	23
Nevada	102,344	101,137	1.2%	94,955	90,741	5,121	8,814	157	147	2,112	1,436
New Mexico	63,315	43,865	44.0%	46,274	29,500	16,410	13,911	316	354	315	100
Utah	49,795	44,477	12.0%	48,202	41,742	571	652	355	250	667	1,831
Wyoming	11,040	7,080	56.0%	8,541	4,543	4	2	0	0	2,495	2,534
Pacific Contiguous	497,294	439,594	13.0%	200,744	167,902	255,238	227,540	5,700	5,435	35,612	38,717
California	342,773	330,160	3.8%	105,554	102,713	199,729	186,154	4,819	5,279	32,671	36,014
Oregon	85,050	64,722	31.0%	47,988	35,958	36,592	28,380	119	115	350	269
Washington	69,470	44,712	55.0%	47,201	29,232	18,916	13,006	762	40	2,591	2,434
Pacific Noncontiguous	17,315	14,601	19.0%	17,161	14,425	0	0	0	1	154	175
Alaska	17,315	14,601	19.0%	17,161	14,425	0	0	0	1	154	175
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	7,431,169	6,926,056	7.3%	3,816,831	3,560,627	3,249,244	2,999,325	26,839	25,838	338,254	340,266

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	915	934	-2.1%	NM	94	806	819	19	21	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	NM	NM	0	0	NM	NM	0	0	0	0
Massachusetts	242	259	-6.8%	0	0	242	259	0	0	0	0
New Hampshire	116	124	-7.0%	0	0	96	104	19	21	0	0
Rhode Island	415	399	4.0%	0	0	415	399	0	0	0	0
Vermont	101	107	-5.6%	NM	94	NM	NM	0	0	0	0
Middle Atlantic	2,570	2,716	-5.4%	0	0	2,431	2,599	NM	NM	88	65
New Jersey	304	380	-20.0%	0	0	289	364	NM	NM	0	0
New York	1,227	1,269	-3.3%	0	0	1,227	1,269	0	0	0	0
Pennsylvania	1,039	1,068	-2.7%	0	0	914	966	NM	NM	88	65
East North Central	3,545	4,380	-19.0%	714	864	2,796	3,476	18	22	17	17
Illinois	588	791	-26.0%	196	326	392	465	0	0	0	0
Indiana	611	636	-3.9%	518	538	94	98	0	0	0	0
Michigan	1,454	1,443	0.8%	0	0	1,454	1,443	0	0	0	0
Ohio	227	771	-71.0%	0	0	227	771	0	0	0	0
Wisconsin	665	739	-10.0%	0	0	629	700	18	22	17	17
West North Central	614	647	-5.1%	249	259	363	386	0	0	NM	NM
Iowa	171	182	-5.9%	0	0	171	182	0	0	0	0
Kansas	110	116	-5.1%	0	0	110	116	0	0	0	0
Minnesota	NM	85	NM	NM	NM	NM	NM	0	0	0	0
Missouri	108	122	-11.0%	NM	67	NM	55	0	0	0	0
Nebraska	141	140	1.0%	141	140	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Atlantic	3,386	3,507	-3.5%	170	225	3,110	3,154	NM	NM	NM	96
Delaware	113	122	-7.0%	0	0	105	112	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	710	717	-0.9%	NM	84	671	633	0	0	0	0
Georgia	478	498	-4.1%	0	0	478	498	0	0	0	0
Maryland	NM	110	NM	0	0	NM	96	0	NM	0	0
North Carolina	754	757	-0.5%	0	0	754	757	0	0	0	0
South Carolina	231	250	-7.5%	130	141	NM	NM	0	0	NM	NM
Virginia	1,008	1,048	-3.9%	0	0	989	1,030	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	393	469	-16.0%	183	194	210	274	0	0	0	0
Alabama	NM	93	NM	0	0	NM	93	0	0	0	0
Kentucky	209	222	-5.9%	183	194	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	135	NM	0	0	NM	135	0	0	0	0
West South Central	468	655	-29.0%	0	0	468	655	0	0	0	0
Arkansas	114	120	-4.8%	0	0	114	120	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	312	492	-37.0%	0	0	312	492	0	0	0	0
Mountain	464	500	-7.3%	NM	44	352	393	70	63	0	0
Arizona	NM	NM	NM	0	0	NM	NM	0	0	0	0
Colorado	NM	78	NM	0	0	NM	78	0	0	0	0
Idaho	105	103	1.7%	NM	NM	NM	NM	NM	NM	0	0
Montana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Nevada	102	110	-7.9%	0	0	102	110	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	98	119	-17.0%	0	0	75	98	23	21	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,748	4,320	-13.0%	118	121	2,658	3,107	972	1,092	0	0
California	3,277	3,796	-14.0%	NM	NM	2,338	2,736	933	1,054	0	0
Oregon	413	461	-10.0%	111	115	262	308	NM	NM	0	0
Washington	NM	63	NM	0	0	NM	63	0	0	0	0
Pacific Noncontiguous	61	68	-11.0%	0	0	0	0	61	68	0	0
Alaska	61	68	-11.0%	0	0	0	0	61	68	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	16,163	18,197	-11.0%	1,564	1,802	13,193	14,863	1,211	1,352	194	181

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	6,298	6,285	0.2%	615	652	5,562	5,487	121	146	0	0
Connecticut	NM	80	NM	0	0	NM	80	0	0	0	0
Maine	217	231	-6.0%	0	0	217	231	0	0	0	0
Massachusetts	1,702	1,824	-6.7%	0	0	1,702	1,824	0	0	0	0
New Hampshire	800	847	-5.5%	0	0	678	700	121	146	0	0
Rhode Island	2,808	2,564	9.5%	0	0	2,808	2,564	0	0	0	0
Vermont	697	740	-5.8%	615	652	NM	89	0	0	0	0
Middle Atlantic	17,787	19,636	-9.4%	0	0	16,764	18,893	268	305	755	438
New Jersey	2,292	2,402	-4.5%	0	0	2,229	2,324	NM	NM	0	0
New York	8,220	8,747	-6.0%	0	0	8,220	8,747	0	0	0	0
Pennsylvania	7,275	8,487	-14.0%	0	0	6,315	7,823	205	227	755	438
East North Central	25,139	30,770	-18.0%	5,167	5,985	19,723	24,516	130	160	120	109
Illinois	4,082	5,453	-25.0%	1,361	2,266	2,721	3,188	0	0	0	0
Indiana	4,474	4,486	-0.3%	3,805	3,719	669	767	0	0	0	0
Michigan	10,088	10,642	-5.2%	0	0	10,088	10,642	0	0	0	0
Ohio	1,764	5,228	-66.0%	0	0	1,764	5,228	0	0	0	0
Wisconsin	4,731	4,961	-4.6%	0	0	4,482	4,692	130	160	120	109
West North Central	4,334	4,539	-4.5%	1,797	1,880	2,523	2,643	0	0	NM	NM
Iowa	1,192	1,227	-2.9%	0	0	1,192	1,227	0	0	0	0
Kansas	754	797	-5.4%	0	0	754	797	0	0	0	0
Minnesota	588	629	-6.5%	372	399	216	230	0	0	0	0
Missouri	820	910	-9.9%	459	521	362	390	0	0	0	0
Nebraska	966	961	0.5%	966	961	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Atlantic	23,368	24,769	-5.7%	1,457	1,643	21,141	22,306	146	178	624	641
Delaware	788	838	-5.9%	0	0	728	772	0	0	60	65
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,756	4,992	-4.7%	523	629	4,233	4,364	0	0	0	0
Georgia	3,287	3,538	-7.1%	0	0	3,278	3,534	0	0	10	4
Maryland	639	718	-11.0%	0	0	631	682	NM	NM	0	0
North Carolina	4,934	5,218	-5.4%	0	0	4,934	5,218	0	0	0	0
South Carolina	1,645	1,756	-6.3%	934	1,014	157	170	0	0	553	572
Virginia	7,285	7,666	-5.0%	0	0	7,147	7,522	138	143	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	2,723	3,183	-14.0%	1,232	1,286	1,491	1,896	0	0	0	0
Alabama	601	632	-5.0%	0	0	601	632	0	0	0	0
Kentucky	1,410	1,485	-5.1%	1,232	1,286	178	199	0	0	0	0
Mississippi	121	129	-5.7%	0	0	121	129	0	0	0	0
Tennessee	591	936	-37.0%	0	0	591	936	0	0	0	0
West South Central	3,230	4,552	-29.0%	0	0	3,230	4,552	0	0	0	0
Arkansas	779	821	-5.2%	0	0	779	821	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	285	301	-5.2%	0	0	285	301	0	0	0	0
Texas	2,166	3,429	-37.0%	0	0	2,166	3,429	0	0	0	0
Mountain	3,245	3,533	-8.1%	291	308	2,502	2,789	452	437	0	0
Arizona	236	251	-5.7%	0	0	236	251	0	0	0	0
Colorado	508	538	-5.5%	0	0	508	538	0	0	0	0
Idaho	702	712	-1.3%	166	175	231	241	306	295	0	0
Montana	125	132	-5.6%	125	132	0	0	0	0	0	0
Nevada	728	787	-7.5%	0	0	728	787	0	0	0	0
New Mexico	228	243	-5.9%	0	0	228	243	0	0	0	0
Utah	717	871	-18.0%	0	0	571	729	146	141	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	26,202	29,616	-12.0%	799	830	18,452	21,386	6,951	7,400	0	0
California	22,844	25,922	-12.0%	NM	NM	16,153	18,778	6,648	7,097	0	0
Oregon	2,941	3,243	-9.3%	756	784	1,883	2,156	303	303	0	0
Washington	417	452	-7.8%	0	0	417	452	0	0	0	0
Pacific Noncontiguous	415	462	-10.0%	0	0	0	0	415	462	0	0
Alaska	415	462	-10.0%	0	0	0	0	415	462	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	112,743	127,345	-11.0%	11,357	12,584	91,389	104,469	8,484	9,089	1,513	1,203

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	268	249	7.9%	0	0	171	241	98	8	0	0
Connecticut	77	78	-1.7%	0	0	77	78	0	0	0	0
Maine	14	8	78.0%	0	0	10	0	4	8	0	0
Massachusetts	168	154	9.2%	0	0	74	154	94	0	0	0
New Hampshire	10	9	9.9%	0	0	10	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	427	413	3.3%	0	0	177	322	249	91	0	0
New Jersey	112	99	13.0%	0	0	30	71	82	28	0	0
New York	154	152	1.4%	0	0	26	110	128	42	0	0
Pennsylvania	161	162	-0.8%	0	0	121	141	40	21	0	0
East North Central	15	15	0.8%	3	4	0	0	12	11	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	2	-18.0%	0	0	0	0	2	2	0	0
Michigan	10	10	7.4%	0	0	0	0	10	10	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	4	-7.6%	3	4	0	0	0	0	0	0
West North Central	38	41	-6.8%	21	22	17	19	NM	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	38	41	-6.8%	21	22	17	19	NM	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	418	458	-8.8%	0	0	226	403	191	55	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	275	313	-12.0%	0	0	172	284	103	30	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	54	52	4.2%	0	0	54	52	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	88	93	-4.9%	0	0	0	67	88	25	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	42	54	-22.0%	0	0	29	54	13	0	0	0
California	27	33	-20.0%	0	0	14	33	13	0	0	0
Oregon	3	6	-53.0%	0	0	3	6	0	0	0	0
Washington	12	15	-16.0%	0	0	12	15	0	0	0	0
Pacific Noncontiguous	37	36	4.5%	0	0	0	0	37	36	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	37	36	4.5%	0	0	0	0	37	36	0	0
U.S. Total	1,245	1,265	-1.6%	24	25	620	1,039	601	201	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.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	1,703	1,817	-6.3%	0	0	1,579	1,747	124	70	0	0
Connecticut	491	615	-20.0%	0	0	491	615	0	0	0	0
Maine	93	103	-9.2%	0	0	63	32	30	70	0	0
Massachusetts	1,055	1,038	1.6%	0	0	962	1,038	94	0	0	0
New Hampshire	64	61	5.0%	0	0	64	61	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,725	2,728	-0.1%	0	0	1,860	2,125	864	603	0	0
New Jersey	724	711	1.8%	0	0	422	513	302	198	0	0
New York	957	994	-3.8%	0	0	555	724	401	271	0	0
Pennsylvania	1,044	1,023	2.1%	0	0	883	888	161	135	0	0
East North Central	94	97	-3.4%	20	22	0	0	74	76	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	8	11	-21.0%	0	0	0	0	8	11	0	0
Michigan	66	65	0.9%	0	0	0	0	66	65	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	20	22	-7.5%	20	22	0	0	0	0	0	0
West North Central	252	257	-2.1%	133	138	119	119	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	252	257	-2.1%	133	138	119	119	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,726	2,953	-7.7%	0	0	1,799	2,566	927	387	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,826	2,030	-10.0%	0	0	1,495	1,843	330	188	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	304	292	4.0%	0	0	304	292	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	597	631	-5.4%	0	0	0	431	597	199	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	1	-100.0%	0	0	0	0	0	0	0	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	1	-100.0%	0	0	0	0	0	0	0	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	285	344	-17.0%	0	0	261	344	25	0	0	0
California	164	199	-18.0%	0	0	140	199	25	0	0	0
Oregon	36	56	-36.0%	0	0	36	56	0	0	0	0
Washington	85	89	-3.5%	0	0	85	89	0	0	0	0
Pacific Noncontiguous	218	242	-10.0%	0	0	0	0	218	242	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	218	242	-10.0%	0	0	0	0	218	242	0	0
U.S. Total	8,003	8,439	-5.2%	153	160	5,618	6,900	2,232	1,378	0	1

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	3,211	3,881	-17.0%	518	487	2,446	3,090	0	0	247	304
Connecticut	NM	335	NM	0	0	NM	335	0	0	0	0
Maine	1,219	1,546	-21.0%	0	0	973	1,242	0	0	247	304
Massachusetts	NM	136	NM	0	0	NM	136	0	0	0	0
New Hampshire	958	1,173	-18.0%	0	0	958	1,173	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	664	691	-4.0%	518	487	NM	204	0	0	0	0
Middle Atlantic	234	699	-67.0%	0	0	0	423	0	0	233	276
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	61	500	-88.0%	0	0	0	422	0	0	61	78
Pennsylvania	172	199	-13.0%	0	0	0	1	0	0	172	198
East North Central	2,069	2,419	-14.0%	583	623	1,057	1,296	0	0	429	500
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,294	1,587	-18.0%	0	0	1,053	1,289	0	0	241	298
Ohio	84	90	-6.6%	0	0	3	7	0	0	81	83
Wisconsin	691	742	-6.8%	583	623	0	0	0	0	108	119
West North Central	408	505	-19.0%	NM	NM	NM	103	58	110	240	263
Iowa	0	2	-100.0%	0	0	0	0	0	2	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	368	446	-17.0%	NM	NM	NM	103	36	72	222	241
Missouri	22	36	-40.0%	0	0	0	0	22	36	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	NM	NM	0	0	0	0	0	0	NM	NM
South Atlantic	9,048	11,661	-22.0%	1,874	2,702	2,868	3,500	0	9	4,306	5,451
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	1,095	1,624	-33.0%	463	874	0	0	0	0	632	749
Georgia	3,775	4,398	-14.0%	0	0	1,935	2,139	0	0	1,840	2,259
Maryland	0	9	-100.0%	0	0	0	0	0	9	0	0
North Carolina	633	885	-28.0%	0	0	223	337	0	0	410	548
South Carolina	1,089	1,458	-25.0%	0	0	407	649	0	0	682	810
Virginia	2,456	3,287	-25.0%	1,411	1,828	NM	376	0	0	743	1,084
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,578	2,914	-12.0%	0	0	0	0	0	0	2,578	2,914
Alabama	1,796	1,944	-7.6%	0	0	0	0	0	0	1,796	1,944
Kentucky	94	127	-26.0%	0	0	0	0	0	0	94	127
Mississippi	500	559	-11.0%	0	0	0	0	0	0	500	559
Tennessee	188	284	-34.0%	0	0	0	0	0	0	188	284
West South Central	2,599	2,801	-7.2%	997	847	0	0	0	0	1,602	1,955
Arkansas	261	371	-30.0%	0	0	0	0	0	0	261	371
Louisiana	922	1,066	-14.0%	0	0	0	0	0	0	922	1,066
Oklahoma	104	149	-30.0%	0	0	0	0	0	0	104	149
Texas	1,311	1,215	7.9%	997	847	0	0	0	0	314	368
Mountain	425	548	-23.0%	0	0	275	385	0	0	149	163
Arizona	NM	250	NM	0	0	NM	250	0	0	0	0
Colorado	82	111	-26.0%	0	0	82	111	0	0	0	0
Idaho	140	165	-15.0%	0	0	13	24	0	0	127	141
Montana	22	22	0.4%	0	0	0	0	0	0	22	22
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,635	5,644	-18.0%	NM	424	2,857	3,352	0	0	1,456	1,868
California	3,250	3,901	-17.0%	0	0	2,604	3,020	0	0	645	881
Oregon	570	740	-23.0%	0	0	NM	332	0	0	317	409
Washington	816	1,003	-19.0%	NM	424	0	0	0	0	494	579
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	25,207	31,073	-19.0%	4,324	5,111	9,584	12,150	58	119	11,241	13,692

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	18,775	22,550	-17.0%	1,961	2,142	15,104	18,586	3	22	1,708	1,801
Connecticut	1,595	1,954	-18.0%	0	0	1,595	1,954	0	0	0	0
Maine	8,084	9,700	-17.0%	0	0	6,377	7,899	0	0	1,708	1,801
Massachusetts	655	822	-20.0%	0	0	655	805	0	NM	0	0
New Hampshire	5,434	6,626	-18.0%	0	0	5,434	6,626	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,007	3,447	-13.0%	1,961	2,142	1,043	1,301	3	5	0	0
Middle Atlantic	2,940	4,900	-40.0%	0	0	1,409	3,097	0	0	1,531	1,803
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	1,809	3,631	-50.0%	0	0	1,408	3,094	0	0	402	536
Pennsylvania	1,131	1,269	-11.0%	0	0	2	2	0	0	1,129	1,267
East North Central	12,342	14,437	-15.0%	3,329	3,467	6,085	7,471	0	0	2,927	3,499
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	7,765	9,467	-18.0%	0	0	6,054	7,415	0	0	1,712	2,052
Ohio	508	641	-21.0%	0	0	32	56	0	0	477	585
Wisconsin	4,068	4,330	-6.0%	3,329	3,467	0	0	0	0	739	863
West North Central	2,796	3,278	-15.0%	NM	133	578	674	339	632	1,799	1,839
Iowa	22	15	45.0%	0	0	0	0	22	15	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	2,511	2,972	-15.0%	NM	133	578	674	182	463	1,672	1,701
Missouri	134	154	-13.0%	0	0	0	0	134	154	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	128	137	-7.0%	0	0	0	0	0	0	128	137
South Atlantic	63,159	71,867	-12.0%	10,991	14,793	20,067	21,571	42	57	32,060	35,446
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,917	9,283	-25.0%	2,589	4,482	0	0	0	0	4,328	4,801
Georgia	26,056	28,076	-7.2%	0	0	12,793	13,521	0	0	13,263	14,555
Maryland	42	57	-26.0%	0	0	0	0	42	57	0	0
North Carolina	5,202	5,170	0.6%	0	0	2,170	1,614	0	0	3,031	3,556
South Carolina	8,479	9,683	-12.0%	0	0	3,336	4,279	0	0	5,143	5,404
Virginia	16,463	19,599	-16.0%	8,401	10,311	1,767	2,157	0	0	6,294	7,131
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	17,652	18,762	-5.9%	0	0	0	0	0	0	17,652	18,762
Alabama	12,294	12,542	-2.0%	0	0	0	0	0	0	12,294	12,542
Kentucky	680	830	-18.0%	0	0	0	0	0	0	680	830
Mississippi	3,490	3,561	-2.0%	0	0	0	0	0	0	3,490	3,561
Tennessee	1,188	1,828	-35.0%	0	0	0	0	0	0	1,188	1,828
West South Central	13,991	16,220	-14.0%	2,364	3,349	0	0	0	0	11,627	12,871
Arkansas	1,969	2,383	-17.0%	0	0	0	0	0	0	1,969	2,383
Louisiana	6,522	7,053	-7.5%	0	0	0	0	0	0	6,522	7,053
Oklahoma	893	1,048	-15.0%	0	0	0	0	0	0	893	1,048
Texas	4,608	5,736	-20.0%	2,364	3,349	0	0	0	0	2,244	2,387
Mountain	2,864	3,516	-19.0%	0	0	1,872	2,434	0	0	991	1,083
Arizona	1,263	1,571	-20.0%	0	0	1,263	1,571	0	0	0	0
Colorado	535	723	-26.0%	0	0	535	723	0	0	0	0
Idaho	932	1,102	-15.0%	0	0	75	140	0	0	857	962
Montana	134	120	12.0%	0	0	0	0	0	0	134	120
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	30,348	35,145	-14.0%	2,076	2,562	17,355	20,444	0	0	10,917	12,139
California	20,789	24,204	-14.0%	0	0	15,737	18,450	0	0	5,052	5,754
Oregon	3,884	4,565	-15.0%	0	0	1,618	1,995	0	0	2,266	2,570
Washington	5,675	6,376	-11.0%	2,076	2,562	0	0	0	0	3,600	3,814
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	164,866	190,676	-14.0%	20,799	26,446	62,471	74,275	385	712	81,212	89,243

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

Chapter 3

Fossil-Fuel Stocks for Electricity Generation

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2013 - July 2023

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2013	147,884	30,387	390	120,792	21,208	303	27,092	9,179	86
2014	151,548	32,322	827	116,684	21,304	686	34,864	11,018	142
2015	195,548	31,694	1,340	153,226	20,253	1,163	42,322	11,441	177
2016	162,009	30,593	845	130,885	19,767	603	31,124	10,827	241
2017	137,687	28,089	864	114,782	19,047	692	22,905	9,041	171
2018	102,793	25,977	539	84,728	16,553	521	18,065	9,423	19
2019	128,102	25,960	471	104,265	16,435	428	23,837	9,525	43
2020	131,431	26,063	298	107,965	15,941	273	23,466	10,123	25
2021	91,884	26,002	302	75,231	15,634	290	16,653	10,368	12
2022	89,963	21,650	304	75,937	13,123	298	14,026	8,528	6
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	84,522	24,083	336	70,461	14,637	324	14,061	9,446	12
February	81,089	24,241	299	68,873	14,767	287	12,216	9,474	12
March	86,304	23,780	350	73,458	14,769	340	12,846	9,011	10
April	91,041	23,837	424	77,216	14,940	416	13,825	8,897	8
May	93,077	24,184	432	79,231	14,741	426	13,846	9,442	6
June	87,319	24,240	414	73,571	15,013	408	13,748	9,227	6
July	79,741	26,039	468	67,011	15,142	459	12,729	10,898	9
August	76,214	23,159	488	64,919	14,646	479	11,295	8,513	9
Sept	80,089	22,839	405	68,173	14,483	397	11,916	8,356	8
October	88,100	23,068	351	74,040	14,556	344	14,061	8,512	7
November	94,007	24,042	401	79,406	14,727	393	14,601	9,315	8
December	89,963	21,650	304	75,937	13,123	298	14,026	8,528	6
Year 2023, End of Month Stocks									
January	94,107	23,200	374	77,572	13,960	360	16,535	9,240	14
February	100,488	23,503	368	82,839	14,164	356	17,649	9,339	12
March	110,073	23,002	514	90,761	14,131	506	19,312	8,871	8
April	119,082	23,015	607	98,061	14,126	598	21,021	8,889	9
May	127,529	22,902	600	105,222	14,018	592	22,307	8,884	9
June	129,160	23,194	533	106,232	14,272	525	22,928	8,922	8
July	121,780	23,209	441	100,324	14,384	435	21,457	8,825	6

Notes: See Glossary for definitions. Values for 2021 and prior years are final. Values for 2022 and 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, July 2023 and 2022

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	July 2023	July 2022	Percentage Change	July 2023	July 2022	Percentage Change	July 2023	July 2022	Percentage Change
New England	W	W	W	2,034	1,996	1.9%	0	0	--
Connecticut	0	0	--	629	799	-21.3%	0	0	--
Maine	0	0	--	250	231	8.0%	0	0	--
Massachusetts	0	0	--	869	615	41.3%	0	0	--
New Hampshire	W	W	W	132	192	-31.3%	0	0	--
Rhode Island	0	0	--	127	139	-9.2%	0	0	--
Vermont	0	0	--	27	19	44.0%	0	0	--
Middle Atlantic	2,570	1,748	47.0%	4,098	6,286	-34.8%	0	0	--
New Jersey	0	0	--	436	617	-29.2%	0	0	--
New York	0	0	--	2,568	4,269	-39.8%	0	0	--
Pennsylvania	2,570	1,748	47.0%	1,094	1,400	-21.9%	0	0	--
East North Central	24,955	13,607	83.4%	1,757	1,959	-10.3%	W	W	W
Illinois	4,103	2,768	48.2%	82	89	-8.3%	0	0	--
Indiana	9,331	4,810	94.0%	465	537	-13.3%	0	0	--
Michigan	4,018	2,257	78.0%	195	200	-2.6%	W	W	W
Ohio	4,283	2,036	110.4%	322	408	-21.0%	0	0	--
Wisconsin	3,221	1,736	85.6%	694	726	-4.5%	W	W	W
West North Central	24,610	17,938	37.2%	887	973	-8.9%	0	0	--
Iowa	4,492	3,701	21.4%	67	86	-22.3%	0	0	--
Kansas	4,548	3,039	49.6%	164	196	-16.6%	0	0	--
Minnesota	2,942	2,655	10.8%	104	112	-6.9%	0	0	--
Missouri	7,141	4,664	53.1%	384	424	-9.4%	0	0	--
Nebraska	3,366	2,228	51.0%	92	97	-5.5%	0	0	--
North Dakota	W	W	W	37	26	43.1%	0	0	--
South Dakota	W	W	W	39	32	22.5%	0	0	--
South Atlantic	17,115	10,613	61.3%	8,771	9,213	-4.8%	W	W	W
Delaware	W	W	W	395	355	11.4%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	1,627	1,033	57.5%	3,601	3,576	0.7%	W	W	W
Georgia	W	2,081	W	1,101	1,147	-4.1%	0	0	--
Maryland	768	525	46.2%	585	636	-8.0%	0	0	--
North Carolina	3,432	2,731	25.6%	948	1,082	-12.4%	0	0	--
South Carolina	2,502	806	210.5%	589	669	-12.0%	0	0	--
Virginia	W	400	W	1,424	1,617	-12.0%	0	0	--
West Virginia	4,151	W	W	130	131	-0.7%	W	W	W
East South Central	11,764	6,254	88.1%	1,154	1,129	2.2%	0	0	--
Alabama	3,003	1,779	68.7%	255	228	11.7%	0	0	--
Kentucky	6,765	3,365	101.1%	271	259	4.8%	0	0	--
Mississippi	W	W	W	2	5	-59.5%	0	0	--
Tennessee	W	W	W	626	637	-1.7%	0	0	--
West South Central	24,536	13,706	79.0%	2,678	2,396	11.8%	W	W	W
Arkansas	4,372	2,672	63.7%	125	155	-19.4%	0	0	--
Louisiana	3,942	1,729	128.0%	184	212	-13.5%	W	W	W
Oklahoma	3,553	1,457	143.8%	18	21	-17.0%	0	0	--
Texas	12,668	7,848	61.4%	2,351	2,007	17.1%	0	0	--
Mountain	W	W	W	308	301	2.2%	W	W	W
Arizona	3,614	W	W	121	106	14.6%	0	0	--
Colorado	3,098	2,504	23.7%	100	106	-5.1%	0	0	--
Idaho	0	0	--	0	0	-17.1%	0	0	--
Montana	W	W	W	13	15	-16.2%	W	W	W
Nevada	W	W	W	2	2	-18.9%	0	0	--
New Mexico	0	W	W	0	6	-100.0%	0	0	--
Utah	W	3,582	W	38	40	-6.0%	0	0	--
Wyoming	4,226	4,250	-0.6%	34	26	31.3%	0	0	--
Pacific Contiguous	W	W	W	325	341	-4.6%	0	0	--
California	0	0	--	165	181	-8.7%	0	0	--
Oregon	0	0	--	50	67	-25.4%	0	0	--
Washington	W	W	W	110	93	18.6%	0	0	--
Pacific Noncontiguous	0	W	W	1,197	1,445	-17.2%	0	0	--
Alaska	0	0	--	7	32	-77.8%	0	0	--
Hawaii	0	W	W	1,190	1,413	-15.8%	0	0	--
U.S. Total	121,780	79,741	52.7%	23,209	26,039	-10.9%	441	468	-5.8%

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

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, July 2023 and 2022

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**July 2023**	**July 2022**	**Percentage Change**	**July 2023**	**July 2022**	**July 2023**	**July 2022**
Coal (Thousand Tons)							
New England	W	W	W	0	0	W	W
Middle Atlantic	2,570	1,748	47.0%	W	W	W	W
East North Central	24,955	13,607	83.4%	17,056	W	7,899	W
West North Central	24,610	17,938	37.2%	24,610	17,938	0	0
South Atlantic	17,115	10,613	61.3%	15,773	9,462	1,342	1,151
East South Central	11,764	6,254	88.1%	11,764	6,254	0	0
West South Central	24,536	13,706	79.0%	16,845	9,896	7,691	3,810
Mountain	W	W	W	W	14,101	W	W
Pacific Contiguous	W	W	W	0	0	W	W
Pacific Noncontiguous	0	W	W	0	0	0	W
U.S. Total	**121,780**	**79,741**	**52.7%**	**100,324**	**67,011**	**21,457**	**12,729**
Petroleum Liquids (Thousand Barrels)							
New England	2,034	1,996	1.9%	153	207	1,881	1,789
Middle Atlantic	4,098	6,286	-34.8%	1,835	1,662	2,263	4,623
East North Central	1,757	1,959	-10.3%	1,110	1,200	647	759
West North Central	887	973	-8.9%	860	945	26	28
South Atlantic	8,771	9,213	-4.8%	6,846	7,277	1,925	1,936
East South Central	1,154	1,129	2.2%	1,115	1,030	39	99
West South Central	2,678	2,396	11.8%	766	881	1,912	1,515
Mountain	308	301	2.2%	283	274	25	28
Pacific Contiguous	325	341	-4.6%	238	250	87	91
Pacific Noncontiguous	1,197	1,445	-17.2%	1,177	1,416	20	29
U.S. Total	**23,209**	**26,039**	**-10.9%**	**14,384**	**15,142**	**8,825**	**10,898**
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	**441**	**468**	**-5.8%**	**435**	**459**	**6**	**9**

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

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2013 - July 2023
(Thousand Tons)

	Electric Power Sector			
Period	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	35,159	51,843	2,956	89,963
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	30,693	51,142	2,686	84,522
February	29,275	49,097	2,717	81,089
March	31,672	51,480	3,152	86,304
April	33,842	53,930	3,269	91,041
May	33,169	56,707	3,191	93,077
June	30,360	53,820	3,129	87,319
July	28,742	47,953	3,040	79,741
August	28,706	44,674	2,826	76,214
Sept	30,741	46,562	2,776	80,089
October	34,029	51,157	2,905	88,100
November	35,962	55,170	2,867	94,007
December	35,159	51,843	2,956	89,963
Year 2023, End of Month Stocks				
January	37,627	53,148	3,324	94,107
February	39,812	57,649	3,022	100,488
March	41,577	65,495	2,996	110,073
April	41,681	73,851	3,335	119,082
May	44,874	78,933	3,504	127,529
June	46,446	78,888	3,606	129,160
July	42,320	75,737	3,503	121,780

Notes: See Glossary for definitions.
Values for 2021 and prior years are final. Values for 2022 and 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 - July 2023

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
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	8,789,763	463,950	2.37	44.95	1.29	96.5	103,963	17,206	23.77	143.77	0.48	54.2
Year 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	740,091	39,488	2.20	41.33	1.21	79.7	12,990	2,172	17.61	105.58	0.46	40.4
February	674,480	35,693	2.18	41.16	1.19	87.8	9,544	1,579	18.33	110.96	0.48	78.2
March	735,281	38,531	2.16	41.20	1.30	109.6	6,814	1,133	22.36	134.50	0.50	59.9
April	666,617	34,846	2.19	41.86	1.36	110.4	6,878	1,137	26.45	160.03	0.50	74.1
May	728,701	38,400	2.24	42.51	1.33	107.2	5,497	913	28.06	168.93	0.49	52.8
June	712,535	37,692	2.32	43.91	1.31	88.7	8,079	1,332	28.69	173.95	0.49	73.0
July	752,383	39,826	2.48	46.81	1.32	79.3	8,080	1,332	29.24	177.41	0.50	64.1
August	819,457	43,262	2.51	47.65	1.29	88.1	7,516	1,238	26.24	159.27	0.50	61.5
Sept	778,764	41,101	2.52	47.71	1.29	108.1	7,570	1,241	24.34	148.48	0.48	63.8
October	768,210	40,629	2.47	46.75	1.28	125.9	8,274	1,353	23.24	142.10	0.47	67.8
November	710,141	37,562	2.49	47.05	1.22	113.4	8,909	1,479	26.03	157.15	0.46	79.1
December	703,103	36,921	2.65	50.56	1.33	86.8	13,812	2,297	21.37	128.86	0.44	30.8
Year 2023												
January	721,315	37,935	2.59	49.31	1.25	106.8	13,285	2,208	21.84	131.43	0.48	106.2
February	637,282	33,758	2.60	49.04	1.27	122.6	9,899	1,629	20.13	122.47	0.46	74.5
March	710,131	37,647	2.51	47.31	1.26	128.6	7,291	1,198	20.48	124.67	0.52	60.5
April	630,884	33,528	2.48	46.67	1.23	143.2	6,942	1,135	19.35	118.40	0.48	63.1
May	638,804	33,691	2.51	47.65	1.24	128.7	7,434	1,223	37.92	230.44	0.49	62.6
June	644,181	34,111	2.47	46.70	1.24	99.6	7,366	1,210	17.65	107.47	0.48	67.0
July	700,790	37,440	2.49	46.54	1.19	83.2	8,602	1,397	17.40	107.10	0.43	75.4
Year to Date												
2021	4,976,459	261,249	1.93	36.70	1.33	86.0	53,890	9,000	13.48	80.73	0.52	64.9
2022	5,010,088	264,476	2.25	42.72	1.29	92.6	57,882	9,598	23.64	142.71	0.49	58.3
2023	4,683,388	248,110	2.52	47.61	1.24	112.2	60,820	10,000	21.95	133.53	0.48	73.2
Rolling 12 Months Ending in July												
2022	8,787,560	464,704	2.16	40.91	1.28	94.2	101,456	16,899	20.38	122.41	0.48	64.3
2023	8,463,063	447,584	2.52	47.74	1.26	107.5	106,900	17,608	22.78	138.41	0.47	60.8

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 - July 2023 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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	63.2	11,867,162	11,497,833	7.22	7.45	84.6	5.13
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	68.6	958,170	927,473	6.57	6.79	84.5	4.68
February	4,050	141	4.24	121.53	5.80	46.9	810,918	785,241	6.03	6.23	84.0	4.29
March	5,791	205	4.84	136.40	5.31	77.3	793,324	769,234	5.11	5.28	84.8	3.72
April	6,637	235	4.80	135.31	5.57	89.5	753,421	730,925	6.23	6.43	84.5	4.35
May	5,992	212	4.97	140.62	5.48	62.0	917,737	890,339	7.56	7.80	85.4	5.16
June	4,887	173	4.50	126.93	5.51	53.8	1,101,034	1,068,703	8.01	8.25	84.7	5.74
July	5,781	205	4.65	131.34	5.54	79.2	1,315,747	1,276,647	7.49	7.72	83.8	5.64
August	6,465	228	5.02	142.06	5.62	75.5	1,304,597	1,263,879	9.02	9.31	84.2	6.41
Sept	3,818	134	2.32	66.08	5.74	43.1	1,091,877	1,056,358	8.20	8.47	85.3	5.74
October	4,142	147	3.37	94.92	5.75	48.3	939,118	909,390	5.84	6.03	85.1	4.34
November	6,485	229	3.84	108.96	5.53	73.1	893,095	865,196	5.72	5.91	84.3	4.34
December	5,298	187	4.19	118.73	5.50	51.6	988,124	954,447	8.98	9.30	85.1	6.31
Year 2023												
January	4,871	176	4.54	126.02	5.67	85.4	965,407	932,711	7.10	7.35	84.8	5.21
February	3,886	136	4.80	136.95	5.62	77.1	865,869	838,449	4.39	4.53	84.7	3.71
March	4,905	172	4.66	132.76	5.71	87.5	918,883	890,378	3.35	3.46	84.2	3.05
April	4,768	168	4.70	133.61	5.72	109.9	848,893	823,152	2.69	2.78	84.1	2.69
May	1,985	72	3.14	86.86	5.76	38.7	972,735	943,769	2.66	2.74	84.9	2.77
June	1,853	66	3.48	98.25	5.77	34.2	1,122,356	1,088,388	2.58	2.66	84.1	2.60
July	2,787	100	3.62	101.16	5.45	33.3	1,365,367	1,322,828	2.96	3.06	82.8	2.86
Year to Date												
2021	39,551	1,396	2.84	80.35	5.27	65.3	6,706,312	6,487,196	5.16	5.34	90.7	3.76
2022	38,480	1,361	4.65	131.38	5.46	67.1	6,650,351	6,448,562	6.84	7.06	84.5	4.86
2023	25,056	889	4.34	122.44	5.67	63.1	7,059,508	6,839,674	3.62	3.73	84.1	3.26
Rolling 12 Months Ending in July												
2022	63,821	2,262	4.26	120.12	5.35	60.8	11,910,824	11,539,620	6.14	6.34	87.4	4.44
2023	51,264	1,814	4.12	116.43	5.64	60.4	12,276,320	11,888,945	5.35	5.53	84.4	4.23

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 - July 2023

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,256,878	476,207	2.16	42.01	1.21	95.4	73,294	11,985	9.16	56.02	0.45	74.0
2017	9,011,629	467,595	2.12	40.81	1.16	96.0	70,422	11,640	11.60	70.19	0.47	74.4
2018	8,351,036	435,964	2.11	40.35	1.18	91.6	84,050	13,896	14.39	87.09	0.37	75.3
2019	7,970,069	413,915	2.08	39.99	1.18	103.1	66,789	11,010	13.40	81.29	0.46	69.9
2020	6,256,811	327,488	1.96	37.49	1.15	100.2	56,530	9,371	9.84	59.37	0.47	67.1
2021	6,448,846	338,205	2.03	38.68	1.14	90.2	69,111	11,468	14.53	87.56	0.47	67.7
2022	6,551,848	343,535	2.42	46.12	1.15	98.0	69,169	11,402	24.41	148.07	0.48	56.9
Year 2021												
January	524,855	27,416	1.97	37.77	1.16	82.1	6,079	994	10.94	66.90	0.47	72.1
February	432,895	22,506	1.97	37.91	1.23	61.9	7,142	1,193	12.72	76.15	0.47	51.4
March	502,746	26,282	1.95	37.28	1.17	101.8	5,440	894	13.23	80.48	0.48	75.6
April	506,346	26,292	1.94	37.28	1.20	116.4	4,447	734	13.61	82.52	0.47	61.4
May	539,795	28,011	1.95	37.57	1.17	103.3	4,906	816	13.99	84.17	0.47	67.6
June	571,750	29,803	2.01	38.49	1.18	82.0	5,792	961	14.57	87.79	0.47	74.3
July	597,304	31,627	2.07	39.08	1.08	74.7	5,254	879	15.06	90.05	0.53	70.5
August	603,863	31,668	2.12	40.51	1.16	74.3	5,319	886	15.30	91.91	0.44	50.4
Sept	556,784	29,410	2.07	39.21	1.08	87.1	8,318	1,359	14.50	88.77	0.46	96.9
October	533,631	28,034	2.08	39.62	1.13	108.5	5,386	893	16.27	98.09	0.44	67.5
November	535,618	28,455	2.06	38.79	1.07	120.4	5,026	845	17.72	105.34	0.48	66.8
December	543,259	28,701	2.11	39.93	1.08	114.3	6,002	1,013	17.21	101.92	0.47	74.8
Year 2022												
January	542,300	28,828	2.25	42.26	1.07	80.7	6,050	1,009	17.07	102.39	0.46	41.2
February	497,278	26,142	2.20	41.83	1.06	91.1	5,935	971	18.60	113.64	0.48	74.9
March	534,313	27,928	2.19	41.82	1.15	115.1	5,269	872	22.38	135.18	0.49	65.4
April	483,487	25,107	2.24	43.13	1.17	113.6	5,431	891	26.19	159.67	0.48	79.9
May	548,948	28,694	2.30	43.99	1.17	108.3	4,280	708	28.05	169.65	0.48	54.3
June	533,852	28,094	2.36	44.77	1.14	87.7	6,806	1,117	28.41	173.09	0.48	84.3
July	555,332	29,154	2.48	47.21	1.19	76.6	6,519	1,077	29.04	175.82	0.48	76.0
August	623,358	32,663	2.54	48.44	1.20	89.7	5,330	877	26.04	158.20	0.47	63.0
Sept	595,112	31,192	2.60	49.69	1.17	110.3	5,587	919	24.88	151.18	0.48	63.6
October	574,777	30,207	2.54	48.32	1.17	128.9	5,983	978	23.67	144.78	0.48	66.7
November	538,778	28,211	2.56	48.83	1.14	120.5	5,475	904	26.04	157.71	0.46	64.7
December	524,313	27,315	2.70	51.85	1.22	86.2	6,504	1,079	23.03	138.84	0.48	26.4
Year 2023												
January	554,017	29,073	2.65	50.48	1.13	105.9	9,756	1,623	21.90	131.67	0.47	108.5
February	478,732	25,173	2.67	50.87	1.16	125.2	6,200	1,029	22.06	132.92	0.48	74.3
March	546,331	28,673	2.54	48.36	1.19	134.8	5,486	904	20.63	125.13	0.48	65.2
April	478,410	24,990	2.52	48.15	1.16	154.7	5,176	845	19.25	117.85	0.47	64.7
May	485,840	25,309	2.55	48.95	1.14	136.1	5,694	940	18.81	113.95	0.48	66.7
June	500,039	26,082	2.51	48.17	1.17	99.1	5,902	970	17.44	106.14	0.47	69.7
July	551,953	29,025	2.54	48.23	1.13	83.9	6,695	1,085	17.08	105.38	0.44	82.7
Year to Date												
2021	3,675,691	191,937	1.98	37.95	1.17	85.7	39,061	6,471	13.36	80.68	0.48	65.9
2022	3,695,510	193,947	2.29	43.62	1.13	93.5	40,290	6,644	24.24	146.97	0.48	64.9
2023	3,595,323	188,324	2.57	49.03	1.15	114.5	44,911	7,397	19.77	120.01	0.47	76.3
Rolling 12 Months Ending in July												
2022	6,468,665	340,214	2.20	41.90	1.12	95.0	70,341	11,640	20.74	125.29	0.47	67.1
2023	6,451,661	337,913	2.58	49.18	1.17	109.8	73,791	12,154	21.68	131.59	0.47	62.4

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 - July 2023 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.85	5.38	103.1	5,075,337	4,907,538	3.15	3.26	97.0	2.54
2017	90,481	3,224	2.15	60.31	5.55	117.6	4,794,383	4,640,827	3.62	3.74	96.8	2.68
2018	83,211	2,940	2.56	72.34	5.74	106.8	5,562,903	5,388,544	3.68	3.80	96.2	2.80
2019	54,266	1,896	1.92	54.88	5.50	91.0	6,038,432	5,842,392	3.03	3.13	97.0	2.53
2020	65,684	2,317	1.70	48.07	5.39	101.8	6,207,039	6,011,244	2.63	2.72	96.3	2.32
2021	64,891	2,296	3.16	89.27	5.24	98.0	5,901,472	5,713,855	5.21	5.39	96.4	3.60
2022	64,607	2,283	4.35	122.99	5.52	99.5	5,811,067	5,636,696	7.52	7.75	88.2	4.91
Year 2021												
January	5,427	190	2.59	73.95	5.38	89.7	457,380	442,433	3.42	3.54	97.1	2.70
February	4,645	164	2.33	66.18	5.37	73.1	404,863	391,435	14.95	15.47	95.9	8.23
March	6,956	247	2.56	72.10	5.28	121.1	400,289	387,315	3.68	3.80	96.6	2.77
April	5,749	206	2.88	80.22	5.16	192.7	412,575	399,946	3.34	3.44	97.1	2.62
May	5,309	185	2.73	78.46	5.43	124.6	442,080	428,517	3.56	3.67	98.1	2.73
June	5,260	184	3.34	95.30	5.13	123.9	575,255	556,914	3.74	3.86	96.0	2.93
July	6,204	219	3.35	94.94	5.15	99.3	655,484	633,900	4.24	4.38	96.2	3.25
August	4,179	147	3.21	91.15	5.43	60.1	656,574	635,636	4.57	4.72	96.0	3.44
Sept	5,608	203	3.62	100.04	4.77	106.5	508,326	492,286	5.17	5.33	96.0	3.63
October	4,814	170	3.03	85.94	5.27	83.5	478,144	463,507	5.96	6.14	97.1	3.96
November	6,105	218	4.34	121.62	5.04	84.6	451,553	437,703	6.12	6.31	96.0	3.98
December	4,634	163	3.89	110.86	5.60	89.1	458,949	444,263	5.57	5.76	95.6	3.77
Year 2022												
January	5,343	189	4.32	122.16	5.11	112.6	465,262	450,738	7.16	7.39	88.9	4.59
February	4,050	141	4.24	121.53	5.80	75.1	385,033	373,416	6.21	6.40	88.7	4.04
March	5,791	205	4.84	136.40	5.31	142.5	380,442	369,447	5.31	5.46	90.4	3.60
April	6,637	235	4.80	135.31	5.57	150.6	362,551	352,358	6.27	6.45	89.3	4.11
May	5,992	212	4.97	140.62	5.48	99.1	449,619	436,938	7.52	7.74	89.3	4.74
June	4,887	173	4.50	126.93	5.51	76.9	557,395	541,597	8.29	8.54	87.3	5.52
July	5,781	205	4.65	131.34	5.54	115.1	662,848	643,947	7.74	7.97	86.0	5.46
August	6,465	228	5.02	142.06	5.62	127.5	645,484	625,751	9.42	9.72	86.4	6.10
Sept	3,818	134	2.32	66.08	5.74	63.7	524,538	507,942	8.63	8.91	87.5	5.50
October	4,060	144	3.35	94.31	5.74	74.8	453,194	439,401	6.26	6.45	88.8	4.28
November	6,485	229	3.84	108.96	5.53	124.4	441,298	427,993	6.08	6.27	89.1	4.25
December	5,298	187	4.19	118.73	5.50	73.4	483,403	467,169	9.12	9.44	89.1	5.87
Year 2023												
January	4,871	176	4.54	126.02	5.67	151.3	465,065	449,484	8.72	9.02	88.6	5.56
February	3,886	136	4.80	136.95	5.62	125.8	410,820	398,391	4.95	5.10	88.2	3.85
March	4,905	172	4.66	132.76	5.71	228.6	442,390	429,189	3.76	3.88	87.8	3.19
April	4,768	168	4.70	133.61	5.72	218.3	416,100	404,457	3.05	3.13	87.7	2.87
May	1,985	72	3.14	86.86	5.76	94.2	490,541	476,738	2.86	2.94	87.6	2.80
June	1,853	66	3.48	98.25	5.77	61.3	555,205	539,070	2.92	3.01	86.6	2.81
July	2,787	100	3.62	101.16	5.45	50.5	672,471	652,468	3.27	3.37	84.5	3.02
Year to Date												
2021	39,551	1,396	2.84	80.35	5.27	110.3	3,347,926	3,240,459	5.07	5.24	96.7	3.50
2022	38,480	1,361	4.65	131.38	5.46	106.9	3,263,150	3,168,441	7.09	7.31	88.3	4.65
2023	25,056	889	4.34	122.44	5.67	117.4	3,452,592	3,349,795	4.12	4.25	87.1	3.43
Rolling 12 Months Ending in July												
2022	63,821	2,262	4.26	120.12	5.35	96.1	5,816,695	5,641,837	6.35	6.55	91.5	4.26
2023	51,182	1,811	4.12	116.42	5.64	101.9	6,000,509	5,818,051	5.80	5.98	87.5	4.22

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 - July 2023

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	3,047,358	164,648	1.93	35.69	1.73	91.8	25,975	4,410	9.93	58.56	0.48	75.1
2017	3,056,215	165,567	1.85	34.19	1.64	93.1	24,704	4,190	12.67	74.73	0.46	73.8
2018	2,849,062	152,015	1.89	35.41	1.70	94.2	47,699	8,022	14.52	86.39	0.44	81.7
2019	2,629,405	139,141	1.81	34.16	1.74	101.6	20,188	3,425	14.40	84.89	0.50	73.0
2020	1,937,714	105,627	1.74	31.92	1.72	97.1	18,954	3,216	9.44	55.61	0.49	88.7
2021	2,163,331	116,480	1.79	33.35	1.79	92.0	25,972	4,447	15.38	89.84	0.47	101.6
2022	2,099,335	113,697	2.20	40.68	1.70	95.3	32,466	5,425	22.66	136.05	0.43	60.9
Year 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	361	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	185,869	10,079	2.07	38.23	1.63	78.1	6,792	1,139	18.23	109.23	0.45	44.1
February	166,487	9,030	2.08	38.46	1.57	81.2	3,381	570	17.99	106.85	0.41	115.9
March	188,026	9,978	2.05	38.73	1.72	100.2	1,326	225	23.39	137.70	0.45	63.5
April	172,455	9,236	2.00	37.46	1.87	107.1	1,334	228	28.11	164.76	0.49	92.0
May	167,471	9,109	2.02	37.25	1.88	108.0	1,042	177	29.62	174.42	0.48	74.3
June	167,192	9,034	2.21	40.96	1.83	94.4	1,129	192	31.32	184.34	0.48	59.1
July	184,805	10,077	2.46	45.22	1.72	89.1	1,405	230	31.28	191.41	0.47	52.7
August	185,225	10,065	2.43	44.70	1.63	85.4	2,029	336	27.23	164.71	0.48	73.6
Sept	172,152	9,348	2.17	40.09	1.73	104.7	1,780	289	23.36	143.93	0.44	88.5
October	182,236	9,879	2.19	40.51	1.67	124.2	2,068	339	22.56	137.79	0.37	96.0
November	161,184	8,863	2.21	40.23	1.49	100.1	3,214	539	26.24	157.38	0.41	177.5
December	166,232	9,000	2.48	45.94	1.66	90.7	6,967	1,162	19.65	118.52	0.36	41.7
Year 2023												
January	156,195	8,313	2.36	44.43	1.71	116.3	3,193	530	22.07	133.19	0.42	177.6
February	147,634	8,061	2.25	41.37	1.64	121.9	3,366	545	16.69	103.54	0.39	91.7
March	153,230	8,449	2.32	42.11	1.54	117.5	1,365	220	21.17	131.15	0.47	63.9
April	141,123	7,974	2.28	40.36	1.50	123.1	1,466	240	20.18	123.46	0.37	79.2
May	142,388	7,862	2.32	42.02	1.60	115.5	1,430	232	118.80	730.99	0.43	60.8
June	133,987	7,498	2.29	41.04	1.52	104.4	1,371	225	18.64	113.46	0.47	91.5
July	139,185	7,916	2.26	39.73	1.45	82.3	1,765	290	18.69	113.88	0.38	76.0
Year to Date												
2021	1,219,755	65,453	1.73	32.29	1.82	88.7	13,485	2,309	13.91	81.22	0.54	89.9
2022	1,232,305	66,542	2.13	39.52	1.74	92.5	16,408	2,761	22.51	134.08	0.46	59.0
2023	1,013,743	56,074	2.30	41.61	1.57	109.9	13,957	2,282	29.88	182.94	0.41	89.5
Rolling 12 Months Ending in July												
2022	2,175,881	117,569	2.02	37.43	1.75	94.3	28,896	4,899	19.90	117.56	0.43	75.5
2023	1,880,773	103,229	2.30	41.93	1.60	104.8	30,015	4,946	25.93	157.70	0.40	73.0

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 2021 and prior years are final. Values for 2022 and 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 - July 2023 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
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	5,240,150	5,067,096	6.93	7.17	88.5	5.44
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	550,203	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	418,086	404,055	6.19	6.42	89.0	4.91
February	0	0	--	--	--	0.0	360,495	348,337	5.87	6.08	88.5	4.60
March	0	0	--	--	--	0.0	342,826	331,587	4.96	5.13	89.5	3.85
April	0	0	--	--	--	0.0	325,905	315,281	6.23	6.45	89.1	4.63
May	0	0	--	--	--	0.0	403,015	389,985	7.60	7.86	89.5	5.75
June	0	0	--	--	--	0.0	476,903	462,003	7.52	7.77	87.9	5.95
July	0	0	--	--	--	0.0	582,421	563,981	7.21	7.46	86.6	5.91
August	0	0	--	--	--	0.0	587,105	567,895	8.50	8.79	87.2	6.81
Sept	0	0	--	--	--	0.0	502,332	485,119	7.58	7.85	89.6	5.98
October	0	0	--	--	--	0.0	421,811	407,766	5.29	5.48	89.7	4.29
November	0	0	--	--	--	0.0	384,067	371,346	5.34	5.53	87.8	4.40
December	0	0	--	--	--	0.0	435,184	419,740	9.32	9.67	89.4	7.26
Year 2023												
January	0	0	--	--	--	0.0	430,272	415,130	5.40	5.60	90.1	4.57
February	0	0	--	--	--	0.0	392,098	378,829	3.91	4.05	90.2	3.48
March	0	0	--	--	--	0.0	408,837	395,267	2.94	3.04	89.6	2.80
April	0	0	--	--	--	0.0	371,744	359,312	2.28	2.36	88.5	2.34
May	0	0	--	--	--	0.0	417,548	404,138	2.43	2.51	89.7	2.74
June	0	0	--	--	--	0.0	502,016	485,754	2.12	2.20	88.5	2.21
July	0	0	--	--	--	0.0	627,873	607,202	2.58	2.67	86.9	2.55
Year to Date												
2021	0	0	--	--	--	0.0	2,904,568	2,805,737	5.45	5.65	95.5	4.22
2022	0	0	--	--	--	0.0	2,909,651	2,815,229	6.61	6.84	88.4	5.15
2023	0	0	--	--	--	0.0	3,150,388	3,045,632	3.05	3.16	88.9	2.94
Rolling 12 Months Ending in July												
2022	0	0	--	--	--	0.0	5,260,473	5,086,501	5.94	6.15	91.7	4.69
2023	0	0	--	--	--	0.0	5,480,887	5,297,499	4.88	5.05	88.8	4.20

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2013 - July 2023

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	3.12	70.30	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	2.85	63.90	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	2.69	60.89	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	2.78	63.31	2.99	3.9	0	0	--	--	--	0.0
2018	290	13	2.94	66.52	3.04	2.2	0	0	--	--	--	0.0
2019	193	8	2.92	66.55	3.01	1.6	0	0	--	--	--	0.0
2020	132	6	2.96	67.66	2.93	1.2	0	0	--	--	--	0.0
2021	262	11	3.03	69.50	2.94	2.1	0	0	--	--	--	0.0
2022	268	12	4.17	94.87	3.08	2.3	0	0	--	--	--	0.0
Year 2021												
January	28	1	2.96	68.67	2.86	2.3	0	0	--	--	--	0.0
February	93	4	2.96	67.61	2.82	6.2	0	0	--	--	--	0.0
March	0	0	--	--	--	0.0	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	21	1	3.09	71.22	3.05	2.1	0	0	--	--	--	0.0
October	60	3	3.09	71.01	3.01	5.7	0	0	--	--	--	0.0
November	28	1	3.09	71.01	3.01	2.4	0	0	--	--	--	0.0
December	33	1	3.07	70.46	3.08	2.9	0	0	--	--	--	0.0
Year 2022												
January	74	3	3.95	90.18	3.03	7.0	0	0	--	--	--	0.0
February	19	1	3.95	90.65	3.00	1.9	0	0	--	--	--	0.0
March	0	0	--	--	--	0.0	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	106	5	4.28	97.46	3.05	9.6	0	0	--	--	--	0.0
October	54	2	4.28	97.11	3.24	5.3	0	0	--	--	--	0.0
November	0	0	--	--	--	0.0	0	0	--	--	--	0.0
December	15	1	4.28	96.94	3.02	1.3	0	0	--	--	--	0.0
Year 2023												
January	21	1	4.28	96.60	3.06	2.3	0	0	--	--	--	0.0
February	21	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
Year to Date												
2021	121	5	2.96	67.85	2.83	1.7	0	0	--	--	--	0.0
2022	93	4	3.95	90.28	3.02	1.5	0	0	--	--	--	0.0
2023	42	2	4.28	96.90	3.09	0.8	0	0	--	--	--	0.0
Rolling 12 Months Ending in July												
2022	235	10	3.43	78.62	3.03	2.1	0	0	--	--	--	0.0
2023	217	10	4.28	97.23	3.10	2.0	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:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2013 - July 2023 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	5.42	5.47	4.9	4.47
2015	0	0	--	--	--	0.0	6,499	6,371	4.11	4.19	5.5	3.76
2016	0	0	--	--	--	0.0	8,005	7,766	3.85	3.97	6.1	3.69
2017	0	0	--	--	--	0.0	7,841	7,593	3.82	3.95	4.9	3.75
2018	0	0	--	--	--	0.0	9,090	8,823	3.49	3.59	6.6	3.47
2019	0	0	--	--	--	0.0	9,429	9,087	3.26	3.39	6.7	3.26
2020	0	0	--	--	--	0.0	8,532	8,188	3.07	3.20	6.3	3.07
2021	0	0	--	--	--	0.0	8,869	8,528	3.42	3.56	7.3	3.41
2022	0	0	--	--	--	0.0	8,636	8,322	3.88	4.02	7.4	3.89
Year 2021												
January	0	0	--	--	--	0.0	759	729	3.12	3.24	6.7	3.11
February	0	0	--	--	--	0.0	676	650	3.13	3.26	6.7	3.11
March	0	0	--	--	--	0.0	702	676	3.12	3.24	7.2	3.12
April	0	0	--	--	--	0.0	740	716	3.12	3.23	9.0	3.12
May	0	0	--	--	--	0.0	673	647	3.13	3.26	8.1	3.13
June	0	0	--	--	--	0.0	671	645	3.17	3.30	6.7	3.17
July	0	0	--	--	--	0.0	680	653	3.39	3.53	6.0	3.39
August	0	0	--	--	--	0.0	794	760	3.53	3.69	6.6	3.53
Sept	0	0	--	--	--	0.0	775	743	3.86	4.02	7.7	3.84
October	0	0	--	--	--	0.0	753	724	3.74	3.89	7.7	3.69
November	0	0	--	--	--	0.0	782	754	3.92	4.06	8.0	3.89
December	0	0	--	--	--	0.0	864	830	3.65	3.80	8.3	3.63
Year 2022												
January	0	0	--	--	--	0.0	759	731	3.29	3.42	6.7	3.35
February	0	0	--	--	--	0.0	711	683	3.32	3.45	7.1	3.33
March	0	0	--	--	--	0.0	712	687	3.30	3.42	7.0	3.30
April	0	0	--	--	--	0.0	786	758	4.35	4.51	8.5	4.35
May	0	0	--	--	--	0.0	686	661	4.13	4.29	7.6	4.13
June	0	0	--	--	--	0.0	628	603	3.89	4.05	6.9	3.89
July	0	0	--	--	--	0.0	693	668	3.86	4.00	6.8	3.86
August	0	0	--	--	--	0.0	732	703	4.86	5.06	7.0	4.86
Sept	0	0	--	--	--	0.0	766	738	4.56	4.73	8.2	4.53
October	0	0	--	--	--	0.0	657	634	3.98	4.12	7.5	4.00
November	0	0	--	--	--	0.0	656	636	3.18	3.28	7.2	3.18
December	0	0	--	--	--	0.0	850	821	3.73	3.86	8.1	3.74
Year 2023												
January	0	0	--	--	--	0.0	707	682	3.11	3.22	6.9	3.14
February	0	0	--	--	--	0.0	707	683	3.01	3.11	7.5	3.05
March	0	0	--	--	--	0.0	680	655	3.05	3.17	6.8	3.05
April	0	0	--	--	--	0.0	720	700	2.89	2.97	8.2	2.89
May	0	0	--	--	--	0.0	748	726	2.84	2.92	8.5	2.84
June	0	0	--	--	--	0.0	617	598	2.89	2.99	6.4	2.89
July	0	0	--	--	--	0.0	629	607	3.07	3.18	6.0	3.07
Year to Date												
2021	0	0	--	--	--	0.0	4,901	4,716	3.17	3.29	7.1	3.16
2022	0	0	--	--	--	0.0	4,976	4,791	3.73	3.88	7.2	3.74
2023	0	0	--	--	--	0.0	4,807	4,651	2.98	3.08	7.2	2.99
Rolling 12 Months Ending in July												
2022	0	0	--	--	--	0.0	8,943	8,603	3.74	3.88	7.4	3.73
2023	0	0	--	--	--	0.0	8,468	8,182	3.45	3.57	7.3	3.47

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2013 - July 2023

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	2.97	64.15	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	2.72	59.17	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	2.67	57.01	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	192,637	9,178	2.49	52.29	1.35	70.7	1,850	297	11.18	69.57	1.42	15.2
2018	170,730	8,224	2.47	51.38	1.30	67.2	2,319	372	13.46	83.97	1.35	15.9
2019	146,324	7,088	2.55	52.69	1.19	65.1	1,684	275	13.19	80.82	1.47	14.5
2020	134,523	6,515	2.49	51.38	1.27	68.9	1,700	277	10.52	64.54	1.20	17.0
2021	141,492	6,781	2.33	48.60	1.33	69.9	2,380	387	12.90	79.39	1.46	21.3
2022	138,312	6,706	2.76	56.86	1.27	66.2	2,327	380	18.70	114.66	1.20	17.8
Year 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	11,848	578	2.34	48.06	1.36	64.4	148	24	15.39	94.47	0.69	10.7
February	10,697	520	2.65	54.46	1.17	65.8	229	37	15.76	97.63	1.27	19.9
March	12,941	626	2.53	52.28	1.39	70.1	219	36	15.78	97.43	1.06	22.4
April	10,674	504	2.78	58.94	1.37	61.7	112	18	19.33	118.47	1.55	14.1
May	12,282	597	2.49	51.10	1.38	68.4	175	29	19.13	117.32	0.90	21.5
June	11,491	564	2.36	48.06	1.45	66.4	144	23	21.21	129.90	1.07	17.0
July	12,246	595	2.65	54.47	1.30	70.7	156	26	19.35	118.47	1.57	15.5
August	10,874	533	2.67	54.52	1.21	63.6	157	25	20.21	124.53	1.54	21.7
Sept	11,393	556	3.10	63.58	1.06	71.0	202	33	18.30	112.79	1.13	21.8
October	11,143	541	3.52	72.50	0.91	64.2	223	36	17.89	109.96	1.15	24.4
November	10,179	488	3.21	66.97	1.29	58.9	219	36	23.10	140.27	1.11	25.3
December	12,543	605	2.91	60.37	1.36	68.3	342	56	19.42	117.88	1.38	13.1
Year 2023												
January	11,082	548	2.99	60.56	1.21	62.0	336	55	17.76	108.25	1.35	25.9
February	10,894	523	3.79	78.83	1.06	67.8	332	55	17.22	104.12	1.55	32.2
March	10,570	525	3.64	73.24	0.78	67.7	440	73	16.48	99.40	1.62	34.7
April	11,351	563	3.48	70.15	0.97	76.5	300	50	17.07	103.34	1.55	28.5
May	10,576	520	3.41	69.33	1.16	68.8	309	51	15.64	95.51	1.12	36.2
June	10,155	532	2.82	53.77	0.82	72.9	93	15	16.41	103.52	1.09	10.6
July	9,652	499	2.86	55.29	0.73	67.1	141	23	16.54	102.83	1.00	17.4
Year to Date												
2021	80,892	3,854	2.33	48.95	1.29	68.5	1,345	219	12.58	77.15	1.40	19.9
2022	82,179	3,983	2.54	52.35	1.35	66.8	1,184	193	17.69	108.80	1.14	17.0
2023	74,279	3,710	3.29	65.94	0.97	68.8	1,951	321	16.78	102.16	1.37	27.2
Rolling 12 Months Ending in July												
2022	142,779	6,911	2.45	50.57	1.36	68.9	2,219	360	15.65	96.50	1.32	19.5
2023	130,412	6,433	3.20	64.89	1.05	67.2	3,094	508	17.88	108.98	1.35	23.4

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2013 - July 2023 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	2.56	69.67	5.83	23.2	742,347	718,360	4.54	4.69	62.7	4.12
2015	8,189	304	1.73	46.72	5.50	24.1	765,964	740,975	2.83	2.93	60.6	2.82
2016	3,664	135	2.00	54.12	5.84	11.2	744,034	721,358	2.65	2.74	59.6	2.68
2017	2,356	85	1.59	44.08	5.84	8.1	803,435	778,741	3.18	3.28	62.0	3.06
2018	1,911	71	1.75	47.47	5.74	7.1	792,297	769,790	3.39	3.49	58.6	3.25
2019	2,028	73	1.69	46.99	5.81	8.1	814,483	790,388	2.82	2.91	57.5	2.80
2020	2,157	80	1.73	46.84	5.89	10.0	805,785	783,182	2.28	2.34	53.7	2.32
2021	0	0	--	--	--	0.0	801,054	778,861	4.65	4.79	56.5	4.33
2022	82	3	4.46	124.88	5.99	0.4	807,309	785,719	6.58	6.76	57.8	6.05
Year 2021												
January	0	0	--	--	--	0.0	72,875	70,729	2.81	2.89	56.4	2.77
February	0	0	--	--	--	0.0	54,185	52,629	13.21	13.60	51.6	11.43
March	0	0	--	--	--	0.0	61,141	59,409	2.87	2.96	54.5	2.83
April	0	0	--	--	--	0.0	60,706	59,084	2.73	2.81	55.2	2.72
May	0	0	--	--	--	0.0	64,452	62,733	3.12	3.20	57.1	2.99
June	0	0	--	--	--	0.0	66,734	64,935	3.33	3.42	55.9	3.17
July	0	0	--	--	--	0.0	68,822	66,765	3.91	4.03	53.6	3.71
August	0	0	--	--	--	0.0	70,582	68,625	4.15	4.26	56.2	3.91
Sept	0	0	--	--	--	0.0	64,834	63,108	4.83	4.96	57.0	4.45
October	0	0	--	--	--	0.0	68,441	66,595	5.76	5.92	58.7	5.31
November	0	0	--	--	--	0.0	71,400	69,498	5.60	5.76	59.7	5.09
December	0	0	--	--	--	0.0	76,882	74,751	4.87	5.01	61.1	4.55
Year 2022												
January	0	0	--	--	--	0.0	74,062	71,950	4.70	4.84	57.4	4.39
February	0	0	--	--	--	0.0	64,680	62,805	5.79	5.97	56.7	5.38
March	0	0	--	--	--	0.0	69,344	67,513	4.73	4.86	57.0	4.41
April	0	0	--	--	--	0.0	64,179	62,528	6.03	6.19	58.2	5.59
May	0	0	--	--	--	0.0	64,417	62,754	7.74	7.95	57.9	6.93
June	0	0	--	--	--	0.0	66,108	64,500	8.40	8.61	59.9	7.53
July	0	0	--	--	--	0.0	69,785	68,051	7.01	7.18	59.8	6.38
August	0	0	--	--	--	0.0	71,276	69,531	8.79	9.01	59.8	8.01
Sept	0	0	--	--	--	0.0	64,241	62,559	8.49	8.72	57.8	7.70
October	82	3	4.46	124.88	5.99	4.8	63,456	61,589	5.90	6.08	55.6	5.58
November	0	0	--	--	--	0.0	67,075	65,221	5.18	5.33	56.9	4.98
December	0	0	--	--	--	0.0	68,687	66,717	6.33	6.52	56.6	5.86
Year 2023												
January	0	0	--	--	--	0.0	69,363	67,415	5.03	5.17	55.2	4.80
February	0	0	--	--	--	0.0	62,244	60,546	3.23	3.32	55.6	3.37
March	0	0	--	--	--	0.0	66,976	65,267	2.75	2.82	55.5	2.94
April	0	0	--	--	--	0.0	60,328	58,682	2.31	2.38	56.8	2.56
May	0	0	--	--	--	0.0	63,898	62,168	2.37	2.43	57.2	2.57
June	0	0	--	--	--	0.0	64,518	62,967	2.48	2.54	55.8	2.54
July	0	0	--	--	--	0.0	64,395	62,551	2.82	2.91	53.8	2.85
Year to Date												
2021	0	0	--	--	--	0.0	448,916	436,284	4.35	4.48	54.9	4.07
2022	0	0	--	--	--	0.0	472,575	460,102	6.31	6.48	58.1	5.77
2023	0	0	--	--	--	0.0	451,722	439,596	3.02	3.11	55.7	3.11
Rolling 12 Months Ending in July												
2022	0	0	--	--	--	0.0	824,713	802,679	5.77	5.92	58.3	5.30
2023	82	3	4.46	124.88	5.99	0.5	786,456	765,213	4.70	4.83	56.4	4.53

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

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2021 and prior years are final. Values for 2022 and 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 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, July 2023 and 2022
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	3	3	-20.0%	0	0	3	3	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	3	-20.0%	0	0	3	3	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	696	1,116	-38.0%	0	0	685	1,105	0	0	11	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	696	1,116	-38.0%	0	0	685	1,105	0	0	11	11
East North Central	6,968	8,419	-17.0%	4,357	5,118	2,472	3,148	0	0	139	153
Illinois	1,550	2,377	-35.0%	239	291	1,172	1,936	0	0	139	149
Indiana	1,793	2,062	-13.0%	1,604	1,891	189	171	0	0	0	0
Michigan	1,099	1,609	-32.0%	1,088	1,592	11	13	0	0	0	4
Ohio	1,355	1,274	6.4%	256	246	1,100	1,028	0	0	0	0
Wisconsin	1,170	1,097	6.6%	1,170	1,097	0	0	0	0	0	0
West North Central	8,930	8,704	2.6%	8,679	8,428	0	0	0	0	251	276
Iowa	1,202	1,087	11.0%	999	876	0	0	0	0	203	212
Kansas	1,245	1,251	-0.5%	1,245	1,251	0	0	0	0	0	0
Minnesota	781	919	-15.0%	781	919	0	0	0	0	0	0
Missouri	2,603	2,436	6.8%	2,603	2,436	0	0	0	0	0	0
Nebraska	1,008	743	36.0%	961	679	0	0	0	0	47	64
North Dakota	1,925	2,117	-9.0%	1,925	2,117	0	0	0	0	0	0
South Dakota	165	150	10.0%	165	150	0	0	0	0	0	0
South Atlantic	4,368	4,741	-7.9%	4,211	3,959	148	735	0	0	9	48
Delaware	24	0	--	0	0	24	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	408	726	-44.0%	408	726	0	0	0	0	0	0
Georgia	956	663	44.0%	947	652	0	0	0	0	9	12
Maryland	69	205	-66.0%	0	0	69	205	0	0	0	0
North Carolina	423	422	0.2%	423	407	0	0	0	0	0	16
South Carolina	723	563	28.0%	723	548	0	15	0	0	0	0
Virginia	90	224	-60.0%	90	203	0	0	0	0	0	21
West Virginia	1,675	1,938	-14.0%	1,620	1,424	55	514	0	0	0	0
East South Central	4,042	4,300	-6.0%	3,689	3,911	292	335	0	0	61	54
Alabama	1,137	1,300	-13.0%	1,137	1,300	0	0	0	0	0	0
Kentucky	2,216	2,115	4.7%	2,216	2,115	0	0	0	0	0	0
Mississippi	324	463	-30.0%	32	128	292	335	0	0	0	0
Tennessee	365	422	-13.0%	304	368	0	0	0	0	61	54
West South Central	6,764	6,951	-2.7%	3,293	3,298	3,467	3,645	0	0	5	9
Arkansas	870	1,054	-17.0%	733	837	132	208	0	0	5	9
Louisiana	496	489	1.4%	206	312	290	177	0	0	0	0
Oklahoma	440	398	11.0%	440	398	0	0	0	0	0	0
Texas	4,958	5,010	-1.0%	1,913	1,751	3,045	3,259	0	0	0	0
Mountain	5,550	5,152	7.7%	4,759	4,412	791	740	0	0	0	0
Arizona	657	691	-4.9%	657	691	0	0	0	0	0	0
Colorado	1,087	899	21.0%	1,087	899	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	639	591	8.1%	0	0	639	591	0	0	0	0
Nevada	128	139	-7.8%	55	74	73	66	0	0	0	0
New Mexico	519	620	-16.0%	519	620	0	0	0	0	0	0
Utah	539	820	-34.0%	504	782	36	38	0	0	0	0
Wyoming	1,981	1,393	42.0%	1,938	1,347	44	45	0	0	0	0
Pacific Contiguous	82	394	-79.0%	0	0	59	351	0	0	23	44
California	23	44	-48.0%	0	0	0	0	0	0	23	44
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	59	351	-83.0%	0	0	59	351	0	0	0	0
Pacific Noncontiguous	37	44	-16.0%	37	29	0	15	0	0	0	0
Alaska	37	29	29.0%	37	29	0	0	0	0	0	0
Hawaii	0	15	-100.0%	0	0	0	15	0	0	0	0
U.S. Total	37,440	39,826	-6.0%	29,025	29,154	7,916	10,077	0	0	499	595

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

Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) July 2023 and 2022
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	92	78	17.0%	0	0	92	78	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	38	41	-8.4%	0	0	38	41	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	54	37	44.0%	0	0	54	37	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	3,954	6,766	-42.0%	0	0	3,887	6,713	0	0	67	53
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	3,954	6,582	-40.0%	0	0	3,887	6,529	0	0	67	53
East North Central	49,895	56,458	-12.0%	30,284	31,744	18,635	23,698	0	0	976	1,017
Illinois	13,302	16,169	-18.0%	2,632	1,895	9,694	13,266	0	0	976	1,008
Indiana	12,751	13,553	-5.9%	11,412	12,068	1,340	1,485	0	0	0	0
Michigan	8,024	9,946	-19.0%	7,949	9,872	75	65	0	0	0	9
Ohio	9,138	9,951	-8.2%	1,612	1,070	7,526	8,882	0	0	0	0
Wisconsin	6,680	6,839	-2.3%	6,680	6,839	0	0	0	0	0	0
West North Central	55,598	57,008	-2.5%	54,007	55,171	0	0	2	4	1,589	1,833
Iowa	7,827	7,083	11.0%	6,623	5,751	0	0	0	0	1,204	1,332
Kansas	7,237	7,248	-0.2%	7,237	7,248	0	0	0	0	0	0
Minnesota	5,177	6,185	-16.0%	5,177	6,185	0	0	0	0	0	0
Missouri	16,319	16,927	-3.6%	16,317	16,923	0	0	2	4	0	0
Nebraska	6,705	6,324	6.0%	6,320	5,824	0	0	0	0	385	500
North Dakota	11,783	12,378	-4.8%	11,783	12,378	0	0	0	0	0	0
South Dakota	550	864	-36.0%	550	864	0	0	0	0	0	0
South Atlantic	30,215	29,758	1.5%	27,010	25,145	2,924	4,269	0	0	281	344
Delaware	48	60	-20.0%	0	0	48	60	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,590	3,435	4.5%	3,570	3,430	0	0	0	0	20	5
Georgia	5,658	4,807	18.0%	5,580	4,732	0	0	0	0	77	74
Maryland	616	1,157	-47.0%	0	0	616	1,157	0	0	0	0
North Carolina	2,816	3,285	-14.0%	2,738	3,145	0	0	0	0	77	141
South Carolina	4,566	3,481	31.0%	4,470	3,344	74	129	0	0	22	8
Virginia	675	1,085	-38.0%	591	969	0	0	0	0	84	116
West Virginia	12,247	12,448	-1.6%	10,061	9,525	2,186	2,923	0	0	0	0
East South Central	28,696	29,675	-3.3%	26,439	27,338	1,909	1,977	0	0	348	360
Alabama	7,843	8,447	-7.1%	7,843	8,447	0	0	0	0	0	0
Kentucky	16,464	15,678	5.0%	16,464	15,678	0	0	0	0	0	0
Mississippi	2,491	3,004	-17.0%	582	1,027	1,909	1,977	0	0	0	0
Tennessee	1,898	2,546	-25.0%	1,550	2,186	0	0	0	0	348	360
West South Central	43,929	46,741	-6.0%	21,418	22,970	22,365	23,687	0	0	147	84
Arkansas	6,267	6,925	-9.5%	5,040	5,580	1,194	1,308	0	0	33	36
Louisiana	3,387	3,232	4.8%	1,639	1,941	1,749	1,291	0	0	0	0
Oklahoma	3,106	3,259	-4.7%	2,993	3,211	0	0	0	0	113	48
Texas	31,169	33,326	-6.5%	11,746	12,238	19,423	21,088	0	0	0	0
Mountain	33,634	35,915	-6.4%	28,948	31,374	4,686	4,541	0	0	0	0
Arizona	4,960	4,470	11.0%	4,960	4,470	0	0	0	0	0	0
Colorado	7,183	6,365	13.0%	7,183	6,365	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3,779	3,615	4.5%	0	0	3,779	3,615	0	0	0	0
Nevada	808	947	-15.0%	410	573	399	374	0	0	0	0
New Mexico	2,125	4,550	-53.0%	2,125	4,550	0	0	0	0	0	0
Utah	4,546	6,378	-29.0%	4,323	6,132	224	246	0	0	0	0
Wyoming	10,233	9,590	6.7%	9,948	9,284	284	306	0	0	0	0
Pacific Contiguous	1,878	1,616	16.0%	0	0	1,576	1,323	0	0	302	293
California	302	293	3.0%	0	0	0	0	0	0	302	293
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1,576	1,323	19.0%	0	0	1,576	1,323	0	0	0	0
Pacific Noncontiguous	219	460	-52.0%	219	204	0	256	0	0	0	0
Alaska	219	204	7.1%	219	204	0	0	0	0	0	0
Hawaii	0	256	-100.0%	0	0	0	256	0	0	0	0
U.S. Total	248,110	264,476	-6.2%	188,324	193,947	56,074	66,542	2	4	3,710	3,983

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

Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, July 2023 and 2022
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	11	4	201.0%	0	0	11	4	0	0	0	0
Connecticut	9	3	162.0%	0	0	9	3	0	0	0	0
Maine	2	0	511.0%	0	0	2	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	323	22	NM	253	0	64	16	0	0	5	6
New Jersey	0	0	-100.0%	0	0	0	0	0	0	0	0
New York	309	3	NM	253	0	56	3	0	0	0	0
Pennsylvania	14	19	-27.0%	0	0	8	13	0	0	5	6
East North Central	45	43	3.6%	38	24	2	17	0	0	5	2
Illinois	2	2	48.0%	1	0	2	2	0	0	0	0
Indiana	20	15	30.0%	20	15	0	0	0	0	0	0
Michigan	19	7	188.0%	16	6	0	0	0	0	3	1
Ohio	2	19	-88.0%	1	2	0	16	0	0	1	2
Wisconsin	1	1	28.0%	1	1	0	0	0	0	0	0
West North Central	32	31	4.2%	32	31	0	0	0	0	0	0
Iowa	6	15	-60.0%	6	15	0	0	0	0	0	0
Kansas	1	1	-10.0%	1	1	0	0	0	0	0	0
Minnesota	0	1	-100.0%	0	1	0	0	0	0	0	0
Missouri	14	10	44.0%	14	10	0	0	0	0	0	0
Nebraska	1	0	--	1	0	0	0	0	0	0	0
North Dakota	10	4	153.0%	10	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	107	151	-29.0%	54	104	41	31	0	0	13	16
Delaware	3	1	350.0%	0	0	3	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	11	52	-78.0%	9	51	0	0	0	0	3	1
Georgia	11	22	-50.0%	6	13	0	0	0	0	5	8
Maryland	30	9	228.0%	0	0	30	9	0	0	0	0
North Carolina	4	7	-40.0%	4	3	0	0	0	0	0	4
South Carolina	9	7	34.0%	7	5	2	0	0	0	0	2
Virginia	14	26	-47.0%	4	5	5	21	0	0	5	1
West Virginia	24	27	-13.0%	24	27	0	0	0	0	0	0
East South Central	9	169	-95.0%	9	168	0	0	0	0	0	1
Alabama	0	10	-100.0%	0	10	0	0	0	0	0	0
Kentucky	4	8	-54.0%	4	8	0	0	0	0	0	0
Mississippi	1	0	237.0%	1	0	0	0	0	0	0	0
Tennessee	4	150	-97.0%	4	149	0	0	0	0	0	1
West South Central	12	26	-54.0%	7	18	5	8	0	0	0	0
Arkansas	4	5	-16.0%	3	3	2	2	0	0	0	0
Louisiana	3	0	--	3	0	0	0	0	0	0	0
Oklahoma	0	8	-100.0%	0	8	0	0	0	0	0	0
Texas	5	13	-61.0%	1	8	4	6	0	0	0	0
Mountain	19	19	0.5%	17	18	3	1	0	0	0	0
Arizona	5	8	-31.0%	5	8	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	2	1	71.0%	0	0	2	1	0	0	0	0
Nevada	2	1	56.0%	2	1	0	0	0	0	0	0
New Mexico	0	2	-100.0%	0	2	0	0	0	0	0	0
Utah	4	1	328.0%	3	1	1	0	0	0	0	0
Wyoming	6	6	11.0%	6	6	0	0	0	0	0	0
Pacific Contiguous	2	2	-21.0%	0	0	2	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	2	2	-21.0%	0	0	2	2	0	0	0	0
Pacific Noncontiguous	838	865	-3.1%	676	714	162	151	0	0	0	0
Alaska	1	4	-79.0%	1	4	0	0	0	0	0	0
Hawaii	837	860	-2.7%	675	710	162	151	0	0	0	0
U.S. Total	1,397	1,332	4.9%	1,085	1,077	290	230	0	0	23	26

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

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

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

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) July 2023 and 2022
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	530	841	-37.0%	0	0	530	841	0	0	0	0
Connecticut	25	8	205.0%	0	0	25	8	0	0	0	0
Maine	181	208	-13.0%	0	0	181	208	0	0	0	0
Massachusetts	209	260	-19.0%	0	0	209	260	0	0	0	0
New Hampshire	66	365	-82.0%	0	0	66	365	0	0	0	0
Rhode Island	48	0	--	0	0	48	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	783	1,008	-22.0%	431	324	316	647	0	0	36	37
New Jersey	12	10	28.0%	0	0	12	10	0	0	0	0
New York	662	831	-20.0%	431	324	231	507	0	0	0	0
Pennsylvania	109	167	-35.0%	0	0	73	130	0	0	36	37
East North Central	473	368	29.0%	333	242	106	111	0	0	34	14
Illinois	27	33	-19.0%	4	1	23	32	0	0	0	0
Indiana	105	128	-18.0%	105	128	0	0	0	0	0	0
Michigan	175	107	63.0%	157	98	0	0	0	0	17	9
Ohio	154	95	63.0%	55	9	83	80	0	0	16	6
Wisconsin	12	5	162.0%	12	5	0	0	0	0	0	0
West North Central	352	364	-3.3%	352	364	0	0	0	0	0	0
Iowa	53	90	-41.0%	53	90	0	0	0	0	0	0
Kansas	56	75	-24.0%	56	75	0	0	0	0	0	0
Minnesota	0	16	-100.0%	0	16	0	0	0	0	0	0
Missouri	158	144	10.0%	158	144	0	0	0	0	0	0
Nebraska	5	7	-19.0%	5	7	0	0	0	0	0	0
North Dakota	70	33	112.0%	70	33	0	0	0	0	0	0
South Dakota	8	0	--	8	0	0	0	0	0	0	0
South Atlantic	1,647	1,143	44.0%	1,170	862	229	149	0	0	248	133
Delaware	6	12	-46.0%	0	0	6	12	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	541	368	47.0%	469	354	55	1	0	0	16	14
Georgia	237	126	88.0%	133	87	0	0	0	0	105	39
Maryland	92	51	80.0%	0	0	92	51	0	0	0	0
North Carolina	240	113	114.0%	158	81	0	0	0	0	82	32
South Carolina	127	136	-6.7%	93	94	12	23	0	0	22	19
Virginia	206	215	-4.1%	145	124	39	62	0	0	22	30
West Virginia	198	123	61.0%	172	122	25	1	0	0	0	0
East South Central	409	312	31.0%	394	301	10	2	0	0	4	9
Alabama	39	28	40.0%	29	26	10	2	0	0	0	0
Kentucky	106	71	49.0%	106	71	0	0	0	0	0	0
Mississippi	2	6	-62.0%	2	6	0	0	0	0	0	0
Tennessee	261	207	26.0%	257	198	0	0	0	0	4	9
West South Central	105	130	-19.0%	65	102	40	28	0	0	0	0
Arkansas	35	44	-21.0%	25	31	10	13	0	0	0	0
Louisiana	3	6	-56.0%	3	6	0	0	0	0	0	0
Oklahoma	5	36	-86.0%	5	36	0	0	0	0	0	0
Texas	62	44	42.0%	33	29	30	15	0	0	0	0
Mountain	146	164	-11.0%	134	154	12	10	0	0	0	0
Arizona	27	39	-31.0%	27	39	0	0	0	0	0	0
Colorado	14	5	185.0%	14	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	7	6	1.0%	0	0	7	6	0	0	0	0
Nevada	8	11	-29.0%	6	9	1	2	0	0	0	0
New Mexico	0	18	-100.0%	0	18	0	0	0	0	0	0
Utah	35	32	7.2%	31	31	4	2	0	0	0	0
Wyoming	56	52	6.8%	56	52	0	0	0	0	0	0
Pacific Contiguous	38	11	253.0%	32	0	7	11	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	38	11	253.0%	32	0	7	11	0	0	0	0
Pacific Noncontiguous	5,518	5,257	5.0%	4,486	4,295	1,032	962	0	0	0	0
Alaska	10	16	-35.0%	10	16	0	0	0	0	0	0
Hawaii	5,508	5,241	5.1%	4,475	4,279	1,032	962	0	0	0	0
U.S. Total	10,000	9,598	4.2%	7,397	6,644	2,282	2,761	0	0	321	193

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

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

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

Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, July 2023 and 2022
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 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	45	80	-43.0%	45	80	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	44	72	-39.0%	44	72	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	1	7	-85.0%	1	7	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	55	26	108.0%	55	26	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	55	26	108.0%	55	26	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	99	-100.0%	0	99	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	99	-100.0%	0	99	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	100	205	-51.0%	100	205	0	0	0	0	0	0

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 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	322	363	-11.0%	322	363	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	308	320	-3.8%	308	320	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	15	43	-66.0%	15	43	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	272	174	56.0%	272	174	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	272	174	56.0%	272	174	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	817	-64.0%	295	817	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	295	817	-64.0%	295	817	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	889	1,361	-35.0%	889	1,361	0	0	0	0	0	0

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	38,312	40,040	-4.3%	39	199	38,273	39,842	0	0	0	0
Connecticut	16,260	16,623	-2.2%	0	0	16,260	16,623	0	0	0	0
Maine	2,003	1,850	8.3%	0	0	2,003	1,850	0	0	0	0
Massachusetts	11,460	13,453	-15.0%	39	199	11,422	13,255	0	0	0	0
New Hampshire	4,634	4,201	10.0%	0	0	4,634	4,201	0	0	0	0
Rhode Island	3,955	3,912	1.1%	0	0	3,955	3,912	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	180,938	167,893	7.8%	14,327	13,430	164,420	152,443	0	0	2,192	2,019
New Jersey	28,955	30,227	-4.2%	0	0	28,955	30,227	0	0	0	0
New York	55,369	51,391	7.7%	14,327	13,430	40,463	37,400	0	0	579	562
Pennsylvania	96,615	86,274	12.0%	0	0	95,002	84,817	0	0	1,613	1,458
East North Central	145,227	118,580	22.0%	51,075	45,157	92,650	71,777	407	471	1,095	1,175
Illinois	22,972	12,687	81.0%	2,208	2,304	20,761	10,383	0	0	2	0
Indiana	22,945	17,846	29.0%	11,584	7,272	11,361	10,574	0	0	0	0
Michigan	38,369	32,607	18.0%	16,631	14,089	20,948	17,599	407	471	384	448
Ohio	45,392	38,561	18.0%	5,916	5,699	39,051	32,395	0	0	425	467
Wisconsin	15,550	16,879	-7.9%	14,736	15,793	530	826	0	0	284	260
West North Central	24,349	19,947	22.0%	20,303	16,862	3,223	2,485	200	197	622	403
Iowa	7,460	5,722	30.0%	6,838	5,319	0	0	0	0	622	403
Kansas	3,168	2,699	17.0%	3,168	2,699	0	0	0	0	0	0
Minnesota	4,949	3,120	59.0%	4,166	2,689	782	430	1	2	0	0
Missouri	7,015	7,266	-3.5%	4,375	5,016	2,441	2,056	199	194	0	0
Nebraska	684	786	-13.0%	684	786	0	0	0	0	0	0
North Dakota	282	57	397.0%	282	57	0	0	0	0	0	0
South Dakota	791	296	167.0%	791	296	0	0	0	0	0	0
South Atlantic	299,438	307,658	-2.7%	251,409	258,130	45,190	46,775	0	0	2,839	2,753
Delaware	4,716	4,308	9.5%	0	0	4,716	4,308	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	140,898	141,484	-0.4%	135,027	132,126	5,482	8,968	0	0	389	389
Georgia	36,056	39,597	-8.9%	29,196	30,531	6,113	8,220	0	0	747	846
Maryland	11,735	10,251	14.0%	3,879	3,594	7,857	6,658	0	0	0	0
North Carolina	41,936	50,043	-16.0%	36,634	43,957	5,302	5,811	0	0	0	275
South Carolina	18,757	21,822	-14.0%	18,042	19,545	535	2,203	0	0	179	75
Virginia	41,783	37,821	10.0%	27,797	27,433	12,958	9,467	0	0	1,028	921
West Virginia	3,557	2,332	53.0%	834	944	2,228	1,140	0	0	496	247
East South Central	107,012	120,093	-11.0%	80,558	88,669	24,541	29,041	0	0	1,913	2,383
Alabama	42,621	46,482	-8.3%	19,126	18,827	23,495	27,655	0	0	0	0
Kentucky	11,846	15,704	-25.0%	10,811	14,329	1,034	1,375	0	0	0	0
Mississippi	41,667	42,684	-2.4%	41,655	42,674	12	10	0	0	0	0
Tennessee	10,878	15,222	-29.0%	8,965	12,840	0	0	0	0	1,913	2,383
West South Central	342,002	345,701	-1.1%	123,170	124,440	167,261	164,214	0	0	51,571	57,047
Arkansas	16,274	16,552	-1.7%	14,915	15,247	1,207	1,155	0	0	152	150
Louisiana	55,825	59,981	-6.9%	33,816	38,107	5,035	5,332	0	0	16,974	16,541
Oklahoma	41,346	39,188	5.5%	29,053	27,845	11,661	10,670	0	0	632	673
Texas	228,557	229,981	-0.6%	45,385	43,241	149,359	147,058	0	0	33,813	39,682
Mountain	97,774	89,388	9.4%	81,990	73,482	15,785	15,906	0	0	0	0
Arizona	43,915	38,646	14.0%	33,098	26,851	10,817	11,795	0	0	0	0
Colorado	13,683	12,646	8.2%	11,488	11,072	2,195	1,574	0	0	0	0
Idaho	1,438	1,314	9.4%	1,438	1,314	0	0	0	0	0	0
Montana	413	224	84.0%	413	224	0	0	0	0	0	0
Nevada	19,912	19,780	0.7%	19,912	19,780	0	0	0	0	0	0
New Mexico	9,842	9,153	7.5%	7,069	6,616	2,773	2,536	0	0	0	0
Utah	7,178	6,483	11.0%	7,178	6,483	0	0	0	0	0	0
Wyoming	1,394	1,143	22.0%	1,394	1,143	0	0	0	0	0	0
Pacific Contiguous	87,768	67,340	30.0%	29,590	23,571	55,859	41,498	0	0	2,319	2,271
California	69,684	56,225	24.0%	20,494	18,077	46,871	35,878	0	0	2,319	2,271
Oregon	10,398	6,081	71.0%	4,399	2,441	5,999	3,640	0	0	0	0
Washington	7,686	5,035	53.0%	4,697	3,054	2,989	1,980	0	0	0	0
Pacific Noncontiguous	8	6	31.0%	8	6	0	0	0	0	0	0
Alaska	8	6	31.0%	8	6	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,322,828	1,276,647	3.6%	652,468	643,947	607,202	563,981	607	668	62,551	68,051

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	195,618	195,982	-0.2%	39	206	195,579	195,776	0	0	0	0
Connecticut	92,544	87,489	5.8%	0	0	92,544	87,489	0	0	0	0
Maine	8,575	10,434	-18.0%	0	0	8,575	10,434	0	0	0	0
Massachusetts	55,348	61,136	-9.5%	39	206	55,309	60,930	0	0	0	0
New Hampshire	18,451	19,378	-4.8%	0	0	18,451	19,378	0	0	0	0
Rhode Island	20,700	17,544	18.0%	0	0	20,700	17,544	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	898,633	858,693	4.7%	58,824	58,022	825,384	787,462	0	0	14,425	13,208
New Jersey	122,092	125,998	-3.1%	0	0	122,092	125,998	0	0	0	0
New York	232,958	237,656	-2.0%	58,824	58,022	170,178	175,512	0	0	3,957	4,121
Pennsylvania	543,583	495,039	9.8%	0	0	533,115	485,952	0	0	10,468	9,087
East North Central	775,661	649,736	19.0%	277,769	228,207	486,054	408,693	3,311	3,465	8,526	9,371
Illinois	80,877	49,163	65.0%	9,556	8,504	71,291	40,627	0	0	30	32
Indiana	134,989	114,027	18.0%	70,151	45,214	64,838	68,813	0	0	0	0
Michigan	207,901	155,068	34.0%	77,727	53,817	123,748	94,144	3,311	3,465	3,115	3,642
Ohio	259,310	237,239	9.3%	32,324	32,769	223,622	200,787	0	0	3,364	3,683
Wisconsin	92,583	94,238	-1.8%	88,012	87,903	2,554	4,322	0	0	2,018	2,014
West North Central	107,704	80,362	34.0%	89,740	68,303	13,482	8,632	1,340	1,326	3,143	2,102
Iowa	35,892	26,499	35.0%	32,750	24,397	0	0	0	0	3,143	2,102
Kansas	16,083	9,889	63.0%	16,083	9,889	0	0	0	0	0	0
Minnesota	21,756	15,169	43.0%	18,102	14,220	3,645	939	9	9	0	0
Missouri	28,094	25,497	10.0%	16,927	16,488	9,836	7,692	1,331	1,317	0	0
Nebraska	1,891	1,921	-1.5%	1,891	1,921	0	0	0	0	0	0
North Dakota	1,657	482	244.0%	1,657	482	0	0	0	0	0	0
South Dakota	2,331	906	157.0%	2,331	906	0	0	0	0	0	0
South Atlantic	1,613,187	1,587,812	1.6%	1,364,235	1,346,115	227,985	221,863	0	0	20,968	19,834
Delaware	14,042	12,556	12.0%	0	0	14,042	12,556	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	762,889	762,984	0.0%	732,305	723,255	28,314	37,201	0	0	2,270	2,527
Georgia	226,300	214,774	5.4%	183,206	169,385	37,321	39,975	0	0	5,773	5,413
Maryland	60,337	52,727	14.0%	18,496	15,199	41,841	37,528	0	0	0	0
North Carolina	227,914	246,010	-7.4%	195,679	212,702	31,150	31,335	0	0	1,084	1,973
South Carolina	106,641	105,728	0.9%	104,126	99,244	1,147	5,824	0	0	1,368	660
Virginia	197,638	182,892	8.1%	127,267	123,398	63,644	52,623	0	0	6,728	6,871
West Virginia	17,426	10,143	72.0%	3,155	2,933	10,526	4,821	0	0	3,745	2,389
East South Central	584,645	622,120	-6.0%	420,760	448,594	149,060	156,991	0	0	14,825	16,534
Alabama	229,769	239,620	-4.1%	83,450	88,174	146,320	151,446	0	0	0	0
Kentucky	55,435	76,609	-28.0%	52,787	71,179	2,649	5,430	0	0	0	0
Mississippi	226,712	220,526	2.8%	226,620	220,411	92	115	0	0	0	0
Tennessee	72,729	85,365	-15.0%	57,904	68,830	0	0	0	0	14,825	16,534
West South Central	1,788,473	1,693,650	5.6%	592,314	554,450	832,941	756,321	0	0	363,218	382,879
Arkansas	89,722	84,151	6.6%	81,768	74,354	6,400	7,623	0	0	1,554	2,174
Louisiana	318,776	333,786	-4.5%	179,151	196,670	24,484	16,677	0	0	115,140	120,439
Oklahoma	178,604	142,310	26.0%	117,314	91,814	57,222	46,899	0	0	4,068	3,596
Texas	1,201,371	1,133,403	6.0%	214,081	191,611	744,835	685,122	0	0	242,455	256,669
Mountain	490,325	422,557	16.0%	408,647	348,993	81,647	73,564	0	0	31	0
Arizona	206,701	178,982	15.0%	152,182	126,348	54,519	52,634	0	0	0	0
Colorado	73,173	64,971	13.0%	61,804	57,394	11,368	7,577	0	0	0	0
Idaho	5,563	4,683	19.0%	5,563	4,683	0	0	0	0	0	0
Montana	3,537	1,477	140.0%	3,537	1,477	0	0	0	0	0	0
Nevada	94,563	90,408	4.6%	94,563	90,408	0	0	0	0	0	0
New Mexico	57,029	39,603	44.0%	41,273	26,252	15,756	13,351	0	0	0	0
Utah	42,846	38,439	11.0%	42,815	38,439	0	0	0	0	31	0
Wyoming	6,913	3,995	73.0%	6,909	3,993	4	2	0	0	0	0
Pacific Contiguous	385,391	337,548	14.0%	137,430	115,448	233,501	205,926	0	0	14,461	16,174
California	285,199	269,309	5.9%	86,633	83,913	184,105	169,222	0	0	14,461	16,174
Oregon	62,023	46,625	33.0%	25,968	18,420	36,055	28,205	0	0	0	0
Washington	38,170	21,614	77.0%	24,829	13,115	13,341	8,499	0	0	0	0
Pacific Noncontiguous	38	103	-63.0%	38	103	0	0	0	0	0	0
Alaska	38	103	-63.0%	38	103	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,839,674	6,448,562	6.1%	3,349,795	3,168,441	3,045,632	2,815,229	4,651	4,791	439,596	460,102

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.92	3.76	-49.0%	--	--	1.92	3.76
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	1.92	3.76	-49.0%	--	--	1.92	3.76
East North Central	2.59	2.37	9.3%	2.71	2.70	2.38	1.84
Illinois	W	1.95	W	2.05	2.13	W	1.92
Indiana	W	W	W	3.13	2.93	W	W
Michigan	W	W	W	2.60	2.42	W	W
Ohio	2.70	W	W	2.29	3.60	2.80	W
Wisconsin	2.39	2.52	-5.2%	2.39	2.52	--	--
West North Central	1.79	1.88	-4.8%	1.79	1.88	--	--
Iowa	1.73	1.91	-9.4%	1.73	1.91	--	--
Kansas	1.75	1.89	-7.4%	1.75	1.89	--	--
Minnesota	2.33	2.39	-2.5%	2.33	2.39	--	--
Missouri	1.89	1.98	-4.5%	1.89	1.98	--	--
Nebraska	1.30	1.31	-0.8%	1.30	1.31	--	--
North Dakota	1.64	1.60	2.5%	1.64	1.60	--	--
South Dakota	2.21	2.40	-7.9%	2.21	2.40	--	--
South Atlantic	3.65	3.48	4.9%	3.64	3.28	3.69	4.50
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.20	4.37	-27.0%	3.20	4.37	--	--
Georgia	4.43	3.58	24.0%	4.43	3.58	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	4.96	3.95	26.0%	4.96	3.95	--	--
South Carolina	3.86	W	W	3.86	3.57	--	W
Virginia	4.56	2.97	54.0%	4.56	2.97	--	--
West Virginia	W	W	W	2.90	2.39	W	W
East South Central	W	W	W	2.72	2.52	W	W
Alabama	2.83	2.64	7.2%	2.83	2.64	--	--
Kentucky	2.57	2.42	6.2%	2.57	2.42	--	--
Mississippi	W	W	W	3.48	3.73	W	W
Tennessee	3.42	2.42	41.0%	3.42	2.42	--	--
West South Central	2.10	2.26	-7.1%	2.07	2.53	2.13	2.00
Arkansas	W	W	W	2.01	2.42	W	W
Louisiana	W	W	W	2.53	2.84	W	W
Oklahoma	2.21	2.70	-18.0%	2.21	2.70	--	--
Texas	W	W	W	2.00	2.48	W	W
Mountain	W	W	W	2.46	2.22	W	W
Arizona	2.98	3.04	-2.0%	2.98	3.04	--	--
Colorado	2.22	1.90	17.0%	2.22	1.90	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	5.96	3.50	W	W
New Mexico	3.65	2.77	32.0%	3.65	2.77	--	--
Utah	2.46	2.14	15.0%	2.46	2.14	--	--
Wyoming	W	W	W	1.97	1.75	W	W
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	4.48	W	W	4.48	3.63	--	W
Alaska	4.48	3.63	23.0%	4.48	3.63	--	--
Hawaii	--	W	W	--	--	--	W
U.S. Total	2.48	2.47	0.4%	2.54	2.48	2.26	2.46

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

Notes:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) July 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 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	2.71	3.22	-16.0%	--	--	2.71	3.22
New Jersey	--	W	W	--	--	--	W
New York	--	--	--	--	--	--	--
Pennsylvania	2.71	W	W	--	--	2.71	W
East North Central	2.52	2.19	15.0%	2.68	2.47	2.27	1.81
Illinois	W	1.89	W	2.04	1.92	W	1.89
Indiana	W	W	W	2.98	2.70	W	W
Michigan	W	W	W	2.52	2.27	W	W
Ohio	2.55	W	W	2.60	2.62	2.54	W
Wisconsin	2.50	2.39	4.6%	2.50	2.39	--	--
West North Central	1.85	1.82	1.6%	1.85	1.82	--	--
Iowa	1.81	1.79	1.1%	1.81	1.79	--	--
Kansas	1.71	1.89	-9.5%	1.71	1.89	--	--
Minnesota	2.40	2.28	5.3%	2.40	2.28	--	--
Missouri	1.92	1.90	1.1%	1.92	1.90	--	--
Nebraska	1.33	1.25	6.4%	1.33	1.25	--	--
North Dakota	1.86	1.62	15.0%	1.86	1.62	--	--
South Dakota	2.26	2.11	7.1%	2.26	2.11	--	--
South Atlantic	3.58	2.86	25.0%	3.67	2.90	2.73	2.63
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	3.38	3.42	-1.2%	3.38	3.42	--	--
Georgia	4.68	3.37	39.0%	4.68	3.37	--	--
Maryland	W	4.77	W	--	--	W	4.77
North Carolina	4.59	3.25	41.0%	4.59	3.25	--	--
South Carolina	W	W	W	3.72	3.39	W	W
Virginia	5.22	2.76	89.0%	5.22	2.76	--	--
West Virginia	W	W	W	2.98	2.27	W	W
East South Central	W	W	W	2.75	2.33	W	W
Alabama	3.03	2.48	22.0%	3.03	2.48	--	--
Kentucky	2.53	2.17	17.0%	2.53	2.17	--	--
Mississippi	W	W	W	4.47	3.64	W	W
Tennessee	3.38	2.52	34.0%	3.38	2.52	--	--
West South Central	2.18	2.17	0.5%	2.22	2.35	2.14	1.98
Arkansas	W	W	W	2.20	2.27	W	W
Louisiana	W	W	W	2.95	2.54	W	W
Oklahoma	2.26	2.54	-11.0%	2.26	2.54	--	--
Texas	W	W	W	2.11	2.31	W	W
Mountain	W	W	W	2.36	2.12	W	W
Arizona	3.07	2.81	9.3%	3.07	2.81	--	--
Colorado	2.02	1.73	17.0%	2.02	1.73	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	4.82	3.26	W	W
New Mexico	3.55	2.54	40.0%	3.55	2.54	--	--
Utah	2.48	2.14	16.0%	2.48	2.14	--	--
Wyoming	W	W	W	1.79	1.72	W	W
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	4.65	W	W	4.65	3.90	--	W
Alaska	4.65	3.90	19.0%	4.65	3.90	--	--
Hawaii	--	W	W	--	--	--	W
U.S. Total	2.51	2.25	12.0%	2.57	2.29	2.30	2.13

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

Notes:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, July 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022
New England	W	W	W	--	--	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	W	--	W	--	--	W	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	26.98	W	14.42	--	W	26.98
New Jersey	--	--	--	--	--	--	--
New York	W	W	W	14.42	--	W	W
Pennsylvania	18.04	W	W	--	--	18.04	W
East North Central	18.17	W	W	18.05	27.60	20.69	W
Illinois	20.26	W	W	18.71	--	20.69	W
Indiana	18.99	27.47	-31.0%	18.99	27.47	--	--
Michigan	16.71	27.89	-40.0%	16.71	27.89	--	--
Ohio	18.99	W	W	18.99	28.00	--	W
Wisconsin	20.28	27.07	-25.0%	20.28	27.07	--	--
West North Central	20.62	27.84	-26.0%	20.62	27.84	--	--
Iowa	19.49	29.70	-34.0%	19.49	29.70	--	--
Kansas	18.67	31.88	-41.0%	18.67	31.88	--	--
Minnesota	--	29.25	--	--	29.25	--	--
Missouri	19.66	29.45	-33.0%	19.66	29.45	--	--
Nebraska	21.61	--	--	21.61	--	--	--
North Dakota	22.65	15.97	42.0%	22.65	15.97	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	19.73	23.79	-17.0%	19.78	22.30	19.68	28.91
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	20.86	16.63	25.0%	20.86	16.63	--	--
Georgia	20.64	30.49	-32.0%	20.64	30.49	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	20.37	27.18	-25.0%	20.37	27.18	--	--
South Carolina	W	29.86	W	20.79	29.86	W	--
Virginia	W	W	W	20.07	23.76	W	W
West Virginia	18.72	26.60	-30.0%	18.72	26.60	--	--
East South Central	19.38	26.46	-27.0%	19.38	26.46	--	--
Alabama	--	27.77	--	--	27.77	--	--
Kentucky	19.93	25.93	-23.0%	19.93	25.93	--	--
Mississippi	18.42	27.91	-34.0%	18.42	27.91	--	--
Tennessee	19.10	26.39	-28.0%	19.10	26.39	--	--
West South Central	W	W	W	18.97	28.40	W	W
Arkansas	W	W	W	20.58	31.57	W	W
Louisiana	17.25	--	--	17.25	--	--	--
Oklahoma	--	28.65	--	--	28.65	--	--
Texas	W	W	W	19.16	27.02	W	W
Mountain	22.28	W	W	22.06	30.49	23.66	W
Arizona	22.97	29.74	-23.0%	22.97	29.74	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	31.32	W	20.68	31.32	W	--
New Mexico	--	34.75	--	--	34.75	--	--
Utah	W	29.56	W	20.44	29.56	W	--
Wyoming	22.47	29.76	-24.0%	22.47	29.76	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	17.52	30.60	W	W
Alaska	21.64	35.02	-38.0%	21.64	35.02	--	--
Hawaii	W	W	W	17.52	30.57	W	W
U.S. Total	17.41	29.44	-41.0%	17.08	29.04	18.69	31.28

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	W	W	W	--	--	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	16.47	19.82	-17.0%	14.90	19.94	19.21	19.76
New Jersey	W	W	W	--	--	W	W
New York	16.03	18.80	-15.0%	14.90	19.94	18.66	18.06
Pennsylvania	W	W	W	--	--	W	W
East North Central	W	26.78	W	19.13	26.54	W	27.30
Illinois	W	W	W	21.98	21.25	W	W
Indiana	20.65	26.93	-23.0%	20.65	26.93	--	--
Michigan	16.55	25.74	-36.0%	16.55	25.74	--	--
Ohio	21.54	W	W	23.46	29.02	20.27	W
Wisconsin	19.88	29.02	-31.0%	19.88	29.02	--	--
West North Central	21.39	25.13	-15.0%	21.39	25.13	--	--
Iowa	20.81	25.61	-19.0%	20.81	25.61	--	--
Kansas	20.80	24.69	-16.0%	20.80	24.69	--	--
Minnesota	--	26.04	--	--	26.04	--	--
Missouri	21.81	25.54	-15.0%	21.81	25.54	--	--
Nebraska	20.64	23.72	-13.0%	20.64	23.72	--	--
North Dakota	21.22	22.90	-7.3%	21.22	22.90	--	--
South Dakota	23.14	--	--	23.14	--	--	--
South Atlantic	21.97	26.19	-16.0%	21.57	26.25	24.04	25.85
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	20.94	26.86	W	W
Georgia	24.36	29.31	-17.0%	24.36	29.31	--	--
Maryland	20.14	28.57	-30.0%	--	--	20.14	28.57
North Carolina	24.56	24.43	0.5%	24.56	24.43	--	--
South Carolina	W	W	W	21.88	29.49	W	W
Virginia	W	W	W	17.67	20.90	W	W
West Virginia	W	W	W	21.59	26.49	W	W
East South Central	W	W	W	21.45	27.21	W	W
Alabama	W	W	W	22.87	28.93	W	W
Kentucky	22.31	25.58	-13.0%	22.31	25.58	--	--
Mississippi	20.91	23.83	-12.0%	20.91	23.83	--	--
Tennessee	20.93	27.68	-24.0%	20.93	27.68	--	--
West South Central	20.26	25.02	-19.0%	20.35	24.29	20.12	27.73
Arkansas	W	W	W	21.52	24.03	W	W
Louisiana	17.25	20.41	-15.0%	17.25	20.41	--	--
Oklahoma	20.55	24.71	-17.0%	20.55	24.71	--	--
Texas	W	W	W	19.67	24.82	W	W
Mountain	25.27	27.58	-8.4%	25.27	27.49	25.29	28.90
Arizona	26.35	27.45	-4.0%	26.35	27.45	--	--
Colorado	27.58	23.84	16.0%	27.58	23.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	26.93	24.93	W	W
New Mexico	--	30.67	--	--	30.67	--	--
Utah	W	W	W	25.40	26.88	W	W
Wyoming	23.90	27.60	-13.0%	23.90	27.60	--	--
Pacific Contiguous	W	W	W	25.90	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	25.90	--	W	W
Pacific Noncontiguous	W	W	W	19.38	23.69	W	W
Alaska	23.80	31.00	-23.0%	23.80	31.00	--	--
Hawaii	W	W	W	19.37	23.66	W	W
U.S. Total	22.12	23.77	-6.9%	19.77	24.24	29.88	22.51

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

Notes:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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, July 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	2.93	1.58	85.0%	2.93	1.58	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	2.88	1.15	150.0%	2.88	1.15	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	5.09	6.14	-17.0%	5.09	6.14	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	4.16	7.28	-43.0%	4.16	7.28	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.16	7.28	-43.0%	4.16	7.28	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	--	6.37	--	--	6.37	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	--	6.37	--	--	6.37	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.62	4.65	-22.0%	3.62	4.65	--	--

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

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

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

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) July 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	2.98	1.42	110.0%	2.98	1.42	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	2.88	1.18	144.0%	2.88	1.18	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	5.24	3.28	60.0%	5.24	3.28	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	5.47	7.45	-27.0%	5.47	7.45	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	5.47	7.45	-27.0%	5.47	7.45	--	--
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	5.45	-13.0%	4.74	5.45	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	4.74	5.45	-13.0%	4.74	5.45	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	4.34	4.65	-6.7%	4.34	4.65	--	--

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

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

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

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, July 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023	July 2022	Percentage Change	July 2023	July 2022	July 2023	July 2022
New England	W	W	W	16.82	9.07	W	W
Connecticut	3.24	7.60	-57.0%	--	--	3.24	7.60
Maine	W	W	W	--	--	W	W
Massachusetts	4.61	9.43	-51.0%	16.82	9.07	4.56	9.44
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.98	6.75	-71.0%	2.44	6.85	1.93	6.74
New Jersey	1.78	7.07	-75.0%	--	--	1.78	7.07
New York	2.43	7.08	-66.0%	2.44	6.85	2.43	7.18
Pennsylvania	1.77	6.43	-72.0%	--	--	1.77	6.43
East North Central	2.52	6.78	-63.0%	2.97	6.84	2.28	6.75
Illinois	2.43	6.87	-65.0%	2.46	7.03	2.42	6.84
Indiana	W	7.05	W	2.88	7.23	W	6.92
Michigan	2.57	7.26	-65.0%	2.80	7.70	2.39	6.91
Ohio	2.07	6.59	-69.0%	2.13	6.72	2.06	6.57
Wisconsin	W	5.90	W	3.66	5.90	W	--
West North Central	W	W	W	2.98	6.84	W	W
Iowa	3.17	6.07	-48.0%	3.17	6.07	--	--
Kansas	2.88	7.14	-60.0%	2.88	7.14	--	--
Minnesota	W	W	W	3.16	7.55	W	W
Missouri	W	W	W	2.62	7.00	W	W
Nebraska	2.89	7.44	-61.0%	2.89	7.44	--	--
North Dakota	3.37	10.29	-67.0%	3.37	10.29	--	--
South Dakota	2.66	6.83	-61.0%	2.66	6.83	--	--
South Atlantic	3.49	8.50	-59.0%	3.60	8.43	2.66	9.12
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.72	8.99	W	W
Georgia	W	W	W	3.05	9.57	W	W
Maryland	W	9.40	W	2.00	7.22	W	10.56
North Carolina	W	W	W	4.39	6.99	W	W
South Carolina	3.83	8.24	-54.0%	3.83	8.24	--	--
Virginia	2.49	7.10	-65.0%	2.71	7.16	1.85	6.86
West Virginia	W	W	W	1.95	6.12	W	W
East South Central	2.86	7.80	-63.0%	2.84	7.57	2.96	8.66
Alabama	W	W	W	3.16	9.44	W	W
Kentucky	W	W	W	3.05	6.72	W	W
Mississippi	W	W	W	2.70	7.40	W	W
Tennessee	2.53	6.36	-60.0%	2.53	6.36	--	--
West South Central	2.64	7.05	-63.0%	2.70	7.18	2.59	6.93
Arkansas	W	W	W	2.53	7.08	W	W
Louisiana	W	W	W	2.84	7.36	W	W
Oklahoma	W	W	W	2.65	7.08	W	W
Texas	2.61	6.98	-63.0%	2.68	7.14	2.59	6.93
Mountain	3.48	7.58	-54.0%	3.44	7.58	4.10	7.65
Arizona	W	W	W	3.56	7.47	W	W
Colorado	W	W	W	3.01	6.86	W	W
Idaho	3.62	6.04	-40.0%	3.62	6.04	--	--
Montana	2.12	4.81	-56.0%	2.12	4.81	--	--
Nevada	3.89	7.11	-45.0%	3.89	7.11	--	--
New Mexico	2.37	6.61	-64.0%	2.37	6.61	--	--
Utah	3.56	11.93	-70.0%	3.56	11.93	--	--
Wyoming	W	8.34	W	3.07	8.34	W	--
Pacific Contiguous	4.75	7.31	-35.0%	4.74	7.27	4.76	7.35
California	5.26	7.99	-34.0%	5.48	7.96	5.09	8.02
Oregon	W	W	W	3.06	5.92	W	W
Washington	W	W	W	3.63	5.18	W	W
Pacific Noncontiguous	8.28	5.96	39.0%	8.28	5.96	--	--
Alaska	8.28	5.96	39.0%	8.28	5.96	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.97	7.53	-61.0%	3.27	7.74	2.58	7.21

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

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

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) July 2023 and 2022
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2023 YTD	July 2022 YTD	Percentage Change	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	W	10.44	W	16.82	8.98	W	10.45
Connecticut	4.38	9.38	-53.0%	--	--	4.38	9.38
Maine	W	W	W	--	--	W	W
Massachusetts	9.86	W	W	16.82	8.98	9.86	W
New Hampshire	W	W	W	--	--	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.59	6.35	-59.0%	3.67	7.35	2.50	6.26
New Jersey	2.26	6.59	-66.0%	--	--	2.26	6.59
New York	3.36	7.28	-54.0%	3.67	7.35	3.23	7.25
Pennsylvania	2.32	5.82	-60.0%	--	--	2.32	5.82
East North Central	2.89	5.99	-52.0%	3.33	6.12	2.64	5.92
Illinois	3.82	6.40	-40.0%	2.58	6.67	3.99	6.34
Indiana	W	6.13	W	3.13	6.37	W	5.97
Michigan	2.74	6.24	-56.0%	3.03	6.78	2.57	5.94
Ohio	2.26	5.83	-61.0%	2.63	5.92	2.21	5.82
Wisconsin	W	5.61	W	4.10	5.61	W	--
West North Central	W	W	W	3.22	15.36	W	W
Iowa	2.92	5.41	-46.0%	2.92	5.41	--	--
Kansas	3.08	6.94	-56.0%	3.08	6.94	--	--
Minnesota	W	W	W	4.29	7.11	W	W
Missouri	W	W	W	2.84	45.04	W	W
Nebraska	2.82	7.64	-63.0%	2.82	7.64	--	--
North Dakota	3.81	8.71	-56.0%	3.81	8.71	--	--
South Dakota	2.57	6.84	-62.0%	2.57	6.84	--	--
South Atlantic	3.95	7.24	-45.0%	4.12	7.26	2.73	7.04
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.00	7.58	W	W
Georgia	W	W	W	3.03	7.57	W	W
Maryland	W	7.94	W	2.56	7.33	W	8.19
North Carolina	W	W	W	5.78	6.37	W	W
South Carolina	4.04	6.78	-40.0%	4.04	6.78	--	--
Virginia	3.63	6.69	-46.0%	4.10	6.98	2.38	5.77
West Virginia	W	W	W	2.05	6.23	W	W
East South Central	2.92	6.46	-55.0%	2.98	6.30	2.75	7.07
Alabama	W	W	W	3.23	7.37	W	W
Kentucky	W	W	W	3.66	6.20	W	W
Mississippi	W	W	W	2.75	6.16	W	W
Tennessee	2.88	5.44	-47.0%	2.88	5.44	--	--
West South Central	2.58	6.51	-60.0%	2.75	6.80	2.43	6.24
Arkansas	W	W	W	2.67	6.41	W	W
Louisiana	W	W	W	2.76	6.89	W	W
Oklahoma	W	W	W	3.02	7.11	W	W
Texas	2.49	6.36	-61.0%	2.62	6.73	2.44	6.24
Mountain	6.27	6.94	-9.7%	6.38	6.96	5.25	6.68
Arizona	5.02	7.09	-29.0%	4.85	7.19	5.76	6.74
Colorado	W	W	W	4.23	6.58	W	W
Idaho	9.39	5.94	58.0%	9.39	5.94	--	--
Montana	2.45	4.88	-50.0%	2.45	4.88	--	--
Nevada	9.46	6.88	38.0%	9.46	6.88	--	--
New Mexico	2.78	6.32	-56.0%	2.78	6.32	--	--
Utah	10.55	7.68	37.0%	10.55	7.68	--	--
Wyoming	W	W	W	9.51	7.48	W	W
Pacific Contiguous	8.49	W	W	9.56	6.77	7.36	W
California	9.44	7.35	28.0%	10.90	7.53	8.17	7.20
Oregon	W	W	W	7.08	4.85	W	W
Washington	W	W	W	8.12	5.37	W	W
Pacific Noncontiguous	8.02	5.56	44.0%	8.02	5.56	--	--
Alaska	8.02	5.56	44.0%	8.02	5.56	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.66	6.89	-47.0%	4.12	7.09	3.05	6.61

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

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

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, July 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	3	0.98	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	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	240	2.50	8.0	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	240	2.50	8.0	0	--	--	0	--	--
East North Central	3,851	2.91	10.4	3,117	0.25	4.6	0	--	--
Illinois	610	3.18	22.0	940	0.25	4.6	0	--	--
Indiana	1,715	2.97	8.8	78	0.27	5.0	0	--	--
Michigan	76	2.25	7.8	1,023	0.25	4.6	0	--	--
Ohio	1,355	2.84	8.9	0	--	--	0	--	--
Wisconsin	95	2.30	7.9	1,075	0.23	4.7	0	--	--
West North Central	36	3.01	9.4	6,969	0.26	4.9	1,915	0.71	9.5
Iowa	2	3.60	9.6	1,200	0.23	4.6	0	--	--
Kansas	0	--	--	1,245	0.28	5.2	0	--	--
Minnesota	0	--	--	781	0.33	5.8	0	--	--
Missouri	34	2.98	9.4	2,569	0.24	4.7	0	--	--
Nebraska	0	--	--	1,008	0.27	4.8	0	--	--
North Dakota	0	--	--	0	--	--	1,915	0.71	9.5
South Dakota	0	--	--	165	0.31	5.1	0	--	--
South Atlantic	3,874	2.51	10.3	494	0.37	5.4	0	--	--
Delaware	24	2.36	7.9	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	408	2.86	8.8	0	--	--	0	--	--
Georgia	462	2.35	9.1	494	0.37	5.4	0	--	--
Maryland	69	3.78	13.4	0	--	--	0	--	--
North Carolina	423	1.51	10.9	0	--	--	0	--	--
South Carolina	723	2.01	9.6	0	--	--	0	--	--
Virginia	90	0.89	25.3	0	--	--	0	--	--
West Virginia	1,675	2.95	10.4	0	--	--	0	--	--
East South Central	2,049	2.78	9.8	1,701	0.26	5.1	292	0.41	14.8
Alabama	128	1.23	12.9	1,009	0.29	5.3	0	--	--
Kentucky	1,643	2.95	9.8	573	0.23	4.8	0	--	--
Mississippi	0	--	--	32	0.25	4.9	292	0.41	14.8
Tennessee	278	2.44	8.5	87	0.23	5.2	0	--	--
West South Central	23	2.81	9.5	5,558	0.29	5.2	1,183	1.10	17.1
Arkansas	5	0.69	12.3	865	0.21	4.7	0	--	--
Louisiana	18	3.46	8.6	478	0.24	4.8	0	--	--
Oklahoma	0	--	--	440	0.26	5.2	0	--	--
Texas	0	--	--	3,774	0.32	5.4	1,183	1.10	17.1
Mountain	646	0.47	11.4	4,868	0.51	8.9	0	--	--
Arizona	0	--	--	657	0.58	9.9	0	--	--
Colorado	122	0.44	11.2	965	0.33	6.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	639	0.68	9.1	0	--	--
Nevada	21	0.38	4.7	107	0.41	4.2	0	--	--
New Mexico	0	--	--	519	0.90	19.9	0	--	--
Utah	504	0.48	11.7	0	--	--	0	--	--
Wyoming	0	--	--	1,981	0.41	7.0	0	--	--
Pacific Contiguous	23	0.77	11.6	59	0.37	8.5	0	--	--
California	23	0.77	11.6	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	59	0.37	8.5	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	26	0.14	7.4
Alaska	0	--	--	0	--	--	26	0.14	7.4
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	10,745	2.59	10.3	22,766	0.32	5.8	3,417	0.82	12.5

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2022 and 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, July 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	2,009	2.87	8.8	2,348	0.24	4.6	0	--	--
Illinois	68	2.31	10.2	171	0.21	4.7	0	--	--
Indiana	1,526	2.90	8.8	78	0.27	5.0	0	--	--
Michigan	65	2.32	7.9	1,023	0.25	4.6	0	--	--
Ohio	256	3.17	9.1	0	--	--	0	--	--
Wisconsin	95	2.30	7.9	1,075	0.23	4.7	0	--	--
West North Central	34	2.98	9.4	6,720	0.26	4.9	1,915	0.71	9.5
Iowa	0	--	--	999	0.23	4.6	0	--	--
Kansas	0	--	--	1,245	0.28	5.2	0	--	--
Minnesota	0	--	--	781	0.33	5.8	0	--	--
Missouri	34	2.98	9.4	2,569	0.24	4.7	0	--	--
Nebraska	0	--	--	961	0.27	4.9	0	--	--
North Dakota	0	--	--	0	--	--	1,915	0.71	9.5
South Dakota	0	--	--	165	0.31	5.1	0	--	--
South Atlantic	3,717	2.47	10.3	494	0.37	5.4	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	408	2.86	8.8	0	--	--	0	--	--
Georgia	453	2.38	9.2	494	0.37	5.4	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	423	1.51	10.9	0	--	--	0	--	--
South Carolina	723	2.01	9.6	0	--	--	0	--	--
Virginia	90	0.89	25.3	0	--	--	0	--	--
West Virginia	1,620	2.91	10.4	0	--	--	0	--	--
East South Central	1,988	2.84	9.9	1,701	0.26	5.1	0	--	--
Alabama	128	1.23	12.9	1,009	0.29	5.3	0	--	--
Kentucky	1,643	2.95	9.8	573	0.23	4.8	0	--	--
Mississippi	0	--	--	32	0.25	4.9	0	--	--
Tennessee	217	2.90	8.9	87	0.23	5.2	0	--	--
West South Central	18	3.46	8.6	3,108	0.25	5.0	167	2.26	27.7
Arkansas	0	--	--	733	0.21	4.7	0	--	--
Louisiana	18	3.46	8.6	188	0.21	4.5	0	--	--
Oklahoma	0	--	--	440	0.26	5.2	0	--	--
Texas	0	--	--	1,746	0.28	5.1	167	2.26	27.7
Mountain	646	0.47	11.4	4,113	0.48	9.0	0	--	--
Arizona	0	--	--	657	0.58	9.9	0	--	--
Colorado	122	0.44	11.2	965	0.33	6.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	21	0.38	4.7	34	0.56	2.5	0	--	--
New Mexico	0	--	--	519	0.90	19.9	0	--	--
Utah	504	0.48	11.7	0	--	--	0	--	--
Wyoming	0	--	--	1,938	0.41	7.0	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	26	0.14	7.4
Alaska	0	--	--	0	--	--	26	0.14	7.4
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	8,412	2.51	9.9	18,483	0.31	5.8	2,108	0.80	10.7

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2022 and 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, July 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	3	0.98	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	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	229	2.50	8.0	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	229	2.50	8.0	0	--	--	0	--	--
East North Central	1,807	2.95	12.3	665	0.26	4.6	0	--	--
Illinois	507	3.29	25.0	665	0.26	4.6	0	--	--
Indiana	189	3.53	9.2	0	--	--	0	--	--
Michigan	11	1.79	7.0	0	--	--	0	--	--
Ohio	1,100	2.76	8.9	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	148	3.61	11.5	0	--	--	0	--	--
Delaware	24	2.36	7.9	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	69	3.78	13.4	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	55	3.98	10.9	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	292	0.41	14.8
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	292	0.41	14.8
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	2,450	0.33	5.5	1,016	0.95	15.7
Arkansas	0	--	--	132	0.20	4.4	0	--	--
Louisiana	0	--	--	290	0.27	5.0	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	2,029	0.35	5.6	1,016	0.95	15.7
Mountain	0	--	--	755	0.63	8.6	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	639	0.68	9.1	0	--	--
Nevada	0	--	--	73	0.33	5.1	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	44	0.48	6.5	0	--	--
Pacific Contiguous	0	--	--	59	0.37	8.5	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	59	0.37	8.5	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	2,187	2.94	11.8	3,930	0.38	6.0	1,308	0.85	15.6

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 2022 and 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, July 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	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2022 and 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, July 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	11	2.41	7.9	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.41	7.9	0	--	--	0	--	--
East North Central	35	3.50	8.5	104	0.22	4.4	0	--	--
Illinois	35	3.50	8.5	104	0.22	4.4	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	2	3.60	9.6	249	0.21	4.5	0	--	--
Iowa	2	3.60	9.6	202	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	47	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	9	1.06	8.0	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	9	1.06	8.0	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	61	1.00	7.2	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	61	1.00	7.2	0	--	--	0	--	--
West South Central	5	0.69	12.3	0	--	--	0	--	--
Arkansas	5	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	23	0.77	11.6	0	--	--	0	--	--
California	23	0.77	11.6	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	146	1.64	8.4	353	0.21	4.4	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2022 and 2023 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Chapter 5

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

Table 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2013 - July 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	1,521,886	1,373,031	1,007,533	6,602	3,909,053
Year 2021					
January	136,682	104,498	79,750	567	321,496
February	126,550	98,356	74,245	548	299,698
March	114,374	102,877	77,552	542	295,345
April	93,891	98,721	79,661	506	272,779
May	101,160	104,711	83,703	487	290,061
June	132,153	119,053	86,702	508	338,415
July	154,495	127,856	91,052	546	373,948
August	157,792	131,111	91,576	560	381,039
Sept	131,111	118,989	85,817	527	336,444
October	103,992	112,246	85,356	533	302,127
November	100,591	103,506	82,545	492	287,134
December	117,696	106,516	82,655	521	307,387
Year 2022					
January	141,057	112,289	83,317	565	337,227
February	126,320	101,655	75,952	565	304,492
March	112,391	107,850	82,955	579	303,775
April	98,206	103,820	81,212	513	283,751
May	111,044	111,361	85,092	529	308,025
June	137,481	120,012	88,231	513	346,236
July	165,715	132,308	89,169	566	387,757
August	161,645	134,164	91,588	535	387,932
Sept	130,379	122,533	85,141	557	338,611
October	100,724	110,297	84,052	540	295,614
November	103,945	104,961	80,427	548	289,880
December	132,982	111,783	80,396	592	325,753
Year 2023					
January	132,694	110,077	79,719	568	323,058
February	113,081	100,855	75,924	549	290,409
March	111,058	109,890	82,088	565	303,601
April	97,020	101,819	79,004	508	278,350
May	101,023	110,858	84,024	518	296,423
June	122,257	117,714	85,036	567	325,574
July	159,530	132,470	89,003	620	381,623
Year to Date					
2021	859,305	756,072	572,664	3,702	2,191,742
2022	892,212	789,294	585,929	3,829	2,271,263
2023	836,665	783,682	574,798	3,895	2,199,039
Rolling 12 Months Ending in July					
2022	1,503,393	1,361,662	1,013,879	6,461	3,885,395
2023	1,466,340	1,367,420	996,402	6,668	3,836,829

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2021 and prior years are final. Values for 2023 and 2022 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2013 - July 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	230,174	172,257	85,171	770	488,371
Year 2021					
January	17,254	10,731	5,037	54	33,076
February	16,469	11,175	5,755	54	33,454
March	15,146	11,397	5,415	53	32,011
April	12,887	10,729	5,340	51	29,007
May	14,017	11,369	5,564	49	30,998
June	18,273	13,491	6,263	53	38,080
July	21,364	14,653	6,758	56	42,832
August	21,960	15,104	6,907	58	44,028
Sept	18,544	13,868	6,530	59	39,001
October	14,619	12,927	6,349	55	33,950
November	14,150	11,688	6,084	51	31,973
December	16,150	11,876	5,832	55	33,914
Year 2022					
January	19,351	12,753	6,081	62	38,248
February	17,472	11,986	5,675	64	35,197
March	16,275	12,691	6,220	63	35,249
April	14,446	12,384	6,367	58	33,254
May	16,625	13,528	7,121	57	37,332
June	21,172	15,483	7,903	61	44,620
July	25,536	17,395	8,392	70	51,394
August	25,758	18,157	8,708	69	52,691
Sept	21,269	16,480	7,852	70	45,670
October	16,125	14,394	7,234	64	37,817
November	16,256	13,124	6,680	64	36,123
December	19,889	13,881	6,937	68	40,776
Year 2023					
January	20,524	14,077	6,618	72	41,291
February	18,052	12,879	6,185	73	37,190
March	17,605	13,763	6,495	71	37,934
April	15,626	12,440	6,024	63	34,153
May	16,301	13,645	6,515	64	36,525
June	19,691	15,082	6,985	71	41,829
July	25,374	17,372	7,518	84	50,347
Year to Date					
2021	115,410	83,546	40,133	369	239,458
2022	130,878	96,221	47,761	434	275,294
2023	133,174	99,257	46,340	497	279,268
Rolling 12 Months Ending in July					
2022	216,302	161,684	79,462	711	458,159
2023	232,470	175,293	83,751	833	492,346

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2021 and prior years are final. Values for 2023 and 2022 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.3. Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2013 - July 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	15.12	12.55	8.45	11.66	12.49
Year 2021					
January	12.62	10.27	6.32	9.48	10.29
February	13.01	11.36	7.75	9.92	11.16
March	13.24	11.08	6.98	9.70	10.84
April	13.73	10.87	6.70	10.03	10.63
May	13.86	10.86	6.65	10.03	10.69
June	13.83	11.33	7.22	10.42	11.25
July	13.83	11.46	7.42	10.29	11.45
August	13.92	11.52	7.54	10.27	11.55
Sept	14.14	11.65	7.61	11.15	11.59
October	14.06	11.52	7.44	10.25	11.24
November	14.07	11.29	7.37	10.47	11.14
December	13.72	11.15	7.06	10.49	11.03
Year 2022					
January	13.72	11.36	7.30	10.91	11.34
February	13.83	11.79	7.47	11.27	11.56
March	14.48	11.77	7.50	10.85	11.60
April	14.71	11.93	7.84	11.26	11.72
May	14.97	12.15	8.37	10.80	12.12
June	15.40	12.90	8.96	11.94	12.89
July	15.41	13.15	9.41	12.37	13.25
August	15.93	13.53	9.51	12.94	13.58
Sept	16.31	13.45	9.22	12.60	13.49
October	16.01	13.05	8.61	11.91	12.79
November	15.64	12.50	8.31	11.61	12.46
December	14.96	12.42	8.63	11.52	12.52
Year 2023					
January	15.47	12.79	8.30	12.70	12.78
February	15.96	12.77	8.15	13.35	12.81
March	15.85	12.52	7.91	12.56	12.49
April	16.11	12.22	7.62	12.31	12.27
May	16.14	12.31	7.75	12.34	12.32
June	16.11	12.81	8.21	12.45	12.85
July	15.91	13.11	8.45	13.50	13.19
Year to Date					
2021	13.43	11.05	7.01	9.97	10.93
2022	14.67	12.19	8.15	11.34	12.12
2023	15.92	12.67	8.06	12.77	12.70
Rolling 12 Months Ending in July					
2022	14.39	11.87	7.84	11.01	11.79
2023	15.85	12.82	8.41	12.49	12.83

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2021 and prior years are final. Values for 2023 and 2022 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, July 2023 and 2022 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	4,949	4,835	4,814	4,805	1,344	1,399	46	41	11,153	11,080
Connecticut	1,499	1,468	1,208	1,158	247	267	16	16	2,970	2,909
Maine	412	399	337	347	177	208	0	0	925	953
Massachusetts	1,991	1,917	2,331	2,366	575	579	28	23	4,925	4,885
New Hampshire	477	482	394	399	175	174	0	0	1,046	1,055
Rhode Island	368	375	366	360	59	52	2	2	794	788
Vermont	203	194	179	176	111	120	0	0	493	490
Middle Atlantic	14,823	15,314	13,652	13,558	6,400	6,483	313	298	35,189	35,653
New Jersey	3,947	4,173	3,513	3,611	556	545	27	22	8,043	8,351
New York	5,565	5,645	6,774	6,503	1,366	1,432	241	214	13,946	13,794
Pennsylvania	5,310	5,497	3,365	3,443	4,478	4,506	46	61	13,199	13,507
East North Central	19,354	20,544	16,667	16,737	16,480	16,249	43	43	52,543	53,573
Illinois	5,007	5,280	4,302	4,408	3,693	3,715	39	39	13,041	13,442
Indiana	3,322	3,591	2,152	2,127	3,780	3,767	1	1	9,254	9,485
Michigan	3,532	3,741	3,505	3,562	2,425	2,420	0	0	9,462	9,723
Ohio	5,239	5,655	4,560	4,451	4,533	4,249	2	2	14,334	14,358
Wisconsin	2,254	2,277	2,148	2,189	2,049	2,099	0	0	6,452	6,566
West North Central	10,817	11,652	9,616	9,648	9,083	9,075	3	2	29,520	30,377
Iowa	1,434	1,556	1,092	1,104	2,335	2,388	0	0	4,861	5,049
Kansas	1,686	1,738	1,574	1,593	1,014	1,063	0	0	4,274	4,394
Minnesota	2,113	2,279	2,011	2,075	1,824	1,811	1	1	5,949	6,166
Missouri	3,807	4,132	2,830	2,940	1,155	1,185	2	1	7,793	8,258
Nebraska	1,015	1,100	881	906	1,263	1,239	0	0	3,159	3,245
North Dakota	349	380	799	592	1,197	1,098	0	0	2,345	2,069
South Dakota	414	467	429	439	295	292	0	0	1,138	1,197
South Atlantic	41,379	42,387	32,960	32,566	12,293	13,314	113	87	86,745	88,355
Delaware	525	530	416	435	187	193	0	0	1,129	1,158
District of Columbia	250	270	695	729	16	17	32	24	993	1,040
Florida	14,841	15,300	9,648	9,814	1,515	1,696	6	7	26,010	26,817
Georgia	7,036	7,045	4,809	4,714	2,922	2,998	12	12	14,779	14,770
Maryland	2,880	2,914	2,631	2,707	310	330	38	31	5,860	5,981
North Carolina	6,706	6,743	4,963	4,869	2,438	2,531	1	2	14,108	14,145
South Carolina	3,741	3,713	2,571	2,279	2,200	2,644	0	0	8,512	8,636
Virginia	4,468	4,918	6,546	6,364	1,484	1,658	24	11	12,521	12,951
West Virginia	932	953	679	656	1,221	1,247	0	0	2,832	2,856
East South Central	12,611	13,718	8,906	9,332	8,298	8,742	0	0	29,814	31,791
Alabama	3,620	3,759	2,270	2,272	2,716	2,910	0	0	8,605	8,940
Kentucky	2,661	2,898	1,836	1,960	2,231	2,410	0	0	6,728	7,267
Mississippi	2,142	2,211	1,458	1,444	1,439	1,442	0	0	5,040	5,096
Tennessee	4,188	4,850	3,342	3,657	1,911	1,981	0	0	9,441	10,488
West South Central	28,731	30,055	20,369	20,384	19,192	17,461	16	17	68,308	67,916
Arkansas	2,004	2,225	1,185	1,236	1,661	1,700	0	0	4,850	5,162
Louisiana	3,771	3,686	2,396	2,334	3,465	3,475	1	1	9,633	9,496
Oklahoma	2,933	3,228	2,295	2,279	1,983	1,974	0	0	7,211	7,481
Texas	20,023	20,915	14,493	14,534	12,082	10,311	15	16	46,614	45,777
Mountain	13,867	13,320	10,441	10,192	8,339	8,398	13	13	32,660	31,923
Arizona	5,779	5,155	3,587	3,303	1,299	1,282	1	1	10,666	9,741
Colorado	2,124	2,307	1,911	1,987	1,386	1,441	7	8	5,427	5,742
Idaho	904	904	631	630	1,310	1,346	0	0	2,845	2,880
Montana	422	421	421	413	418	420	0	0	1,261	1,255
Nevada	2,148	2,034	1,286	1,406	1,206	1,178	1	1	4,642	4,619
New Mexico	884	823	956	912	1,051	979	0	0	2,891	2,715
Utah	1,388	1,436	1,341	1,237	836	883	4	4	3,569	3,561
Wyoming	218	239	308	304	833	867	0	0	1,358	1,411
Pacific Contiguous	12,626	13,508	14,596	14,638	7,149	7,631	72	64	34,443	35,841
California	8,237	9,005	10,659	10,701	3,910	4,334	62	53	22,868	24,093
Oregon	1,685	1,699	1,532	1,519	1,482	1,450	2	2	4,701	4,670
Washington	2,703	2,805	2,404	2,417	1,757	1,847	8	9	6,874	7,078
Pacific Noncontiguous	374	382	449	448	426	418	0	0	1,248	1,248
Alaska	142	145	205	206	124	112	0	0	471	463
Hawaii	231	237	244	242	302	306	0	0	777	785
U.S. Total	159,530	165,715	132,470	132,308	89,003	89,169	620	566	381,623	387,757

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through July 2023 and 2022 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	26,912	28,464	28,238	28,697	8,720	9,155	286	291	64,156	66,606
Connecticut	7,233	7,777	6,566	6,731	1,507	1,650	103	95	15,409	16,253
Maine	2,902	3,044	2,335	2,392	1,419	1,439	0	0	6,656	6,875
Massachusetts	11,104	11,628	13,780	13,899	3,554	3,767	168	183	28,607	29,477
New Hampshire	2,700	2,866	2,354	2,395	1,117	1,115	0	0	6,171	6,376
Rhode Island	1,703	1,851	2,101	2,167	372	370	14	13	4,191	4,401
Vermont	1,269	1,298	1,103	1,113	750	814	0	0	3,122	3,224
Middle Atlantic	75,601	81,345	81,818	83,838	41,472	42,200	1,955	1,975	200,847	209,357
New Jersey	16,399	17,678	20,563	21,323	3,527	3,718	139	156	40,628	42,875
New York	28,728	30,313	40,649	40,786	8,743	9,130	1,540	1,502	79,661	81,731
Pennsylvania	30,474	33,353	20,606	21,729	29,202	29,352	277	316	80,558	84,751
East North Central	105,635	115,114	100,954	102,883	107,412	109,223	276	302	314,278	327,521
Illinois	25,315	27,922	26,460	27,489	23,840	24,609	246	268	75,861	80,287
Indiana	18,601	20,474	13,117	13,452	23,915	25,295	8	8	55,640	59,229
Michigan	19,308	20,925	21,270	21,710	16,474	16,191	3	2	57,055	58,829
Ohio	29,219	32,122	26,635	26,556	29,636	29,490	19	23	85,509	88,191
Wisconsin	13,192	13,670	13,473	13,675	13,547	13,638	1	1	40,213	40,984
West North Central	64,302	66,974	59,566	59,253	59,230	57,905	24	25	183,122	184,157
Iowa	8,928	9,284	7,151	7,212	15,893	15,471	0	0	31,972	31,967
Kansas	8,010	8,448	9,169	9,053	6,628	6,840	0	0	23,807	24,341
Minnesota	13,996	14,203	13,055	13,115	11,859	11,634	11	13	38,921	38,964
Missouri	20,662	22,311	16,785	17,257	7,414	7,853	13	13	44,873	47,434
Nebraska	6,361	6,375	5,516	5,478	7,402	7,348	0	0	19,279	19,200
North Dakota	3,125	3,177	5,021	4,299	8,205	6,926	0	0	16,350	14,402
South Dakota	3,220	3,176	2,870	2,840	1,830	1,833	0	0	7,919	7,849
South Atlantic	214,777	229,880	191,547	190,201	82,638	87,111	661	579	489,624	507,771
Delaware	2,843	3,093	2,394	2,520	1,126	1,206	0	0	6,363	6,818
District of Columbia	1,353	1,498	4,017	4,265	99	107	171	136	5,639	6,007
Florida	78,801	79,959	58,005	57,589	10,844	11,146	42	45	147,692	148,738
Georgia	33,944	36,871	27,215	27,351	19,219	19,584	83	84	80,461	83,890
Maryland	15,157	16,759	15,365	15,983	1,976	2,099	241	227	32,740	35,068
North Carolina	33,921	37,515	27,831	28,643	15,643	16,691	7	9	77,403	82,857
South Carolina	17,813	19,423	13,843	12,813	15,263	16,956	0	0	46,918	49,193
Virginia	24,957	28,101	38,738	36,811	10,047	10,794	118	77	73,860	75,783
West Virginia	5,988	6,662	4,140	4,226	8,420	8,528	0	0	18,548	19,417
East South Central	67,259	74,011	51,210	52,790	55,490	59,296	0	0	173,959	186,097
Alabama	18,054	19,949	12,810	13,052	18,227	18,732	0	0	49,092	51,733
Kentucky	14,649	16,351	10,726	11,124	15,069	17,625	0	0	40,444	45,099
Mississippi	10,565	11,435	8,045	8,049	9,240	9,424	0	0	27,850	28,909
Tennessee	23,991	26,276	19,628	20,565	12,955	13,515	0	0	56,574	60,356
West South Central	133,594	145,688	117,721	119,519	122,505	120,580	105	105	373,925	385,892
Arkansas	10,541	11,444	6,622	6,743	10,727	10,563	0	0	27,890	28,750
Louisiana	17,543	18,762	13,431	13,502	23,431	23,621	6	6	54,411	55,891
Oklahoma	13,682	15,080	12,689	12,168	13,099	13,039	0	0	39,469	40,287
Texas	91,829	100,403	84,979	87,105	75,248	73,357	99	99	252,155	260,964
Mountain	63,629	63,658	59,159	58,806	49,771	50,018	95	89	172,654	172,573
Arizona	22,172	22,054	18,220	17,879	8,167	8,207	6	6	48,564	48,146
Colorado	11,616	11,992	11,818	12,100	8,851	8,948	53	53	32,338	33,093
Idaho	5,835	5,708	3,930	3,872	5,511	5,620	0	0	15,276	15,200
Montana	3,482	3,436	2,929	2,898	2,659	2,671	0	0	9,070	9,006
Nevada	7,957	8,072	7,207	7,518	7,099	7,231	4	4	22,267	22,826
New Mexico	4,233	4,243	5,315	5,234	6,837	6,281	0	0	16,385	15,757
Utah	6,491	6,348	7,600	7,218	4,907	5,341	32	26	19,029	18,933
Wyoming	1,842	1,805	2,140	2,088	5,741	5,720	0	0	9,724	9,613
Pacific Contiguous	82,244	84,335	90,414	90,234	44,810	47,690	491	463	217,959	222,723
California	46,283	48,588	63,470	63,940	23,327	26,134	417	382	133,497	139,043
Oregon	12,324	12,075	9,919	9,490	9,459	9,139	13	13	31,715	30,717
Washington	23,636	23,673	17,025	16,805	12,024	12,417	61	68	52,747	52,963
Pacific Noncontiguous	2,712	2,743	3,054	3,072	2,750	2,751	0	0	8,516	8,565
Alaska	1,203	1,188	1,485	1,495	807	799	0	0	3,495	3,482
Hawaii	1,509	1,554	1,569	1,578	1,943	1,952	0	0	5,021	5,084
U.S. Total	836,665	892,212	783,682	789,294	574,798	585,929	3,895	3,829	2,199,039	2,271,263

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, July 2023 and 2022 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	1,339	1,053	886	822	212	221	5	4	2,443	2,100
Connecticut	401	285	219	189	38	40	3	2	662	516
Maine	114	92	60	54	22	24	0	0	197	169
Massachusetts	547	459	437	428	102	108	2	2	1,087	996
New Hampshire	140	105	78	68	27	26	0	0	244	199
Rhode Island	95	73	61	54	11	9	0	0	167	136
Vermont	42	39	32	30	12	14	0	0	86	84
Middle Atlantic	2,925	2,864	2,236	2,209	507	598	46	40	5,715	5,711
New Jersey	732	715	527	528	71	76	4	3	1,334	1,323
New York	1,240	1,235	1,338	1,296	96	120	38	32	2,712	2,683
Pennsylvania	954	913	371	384	340	402	5	6	1,669	1,705
East North Central	3,122	3,283	1,969	2,020	1,325	1,465	3	4	6,419	6,772
Illinois	746	877	488	555	310	348	3	3	1,547	1,782
Indiana	482	539	254	280	294	349	0	0	1,030	1,168
Michigan	682	675	466	445	201	211	0	0	1,350	1,330
Ohio	830	839	483	480	331	365	0	0	1,644	1,684
Wisconsin	382	354	278	261	188	192	0	0	848	807
West North Central	1,556	1,676	1,102	1,133	764	796	0	0	3,422	3,605
Iowa	216	243	132	142	202	219	0	0	549	604
Kansas	231	259	179	197	81	97	0	0	491	554
Minnesota	327	345	264	273	172	174	0	0	763	792
Missouri	558	588	335	330	104	112	0	0	997	1,030
Nebraska	126	132	86	86	99	94	0	0	311	313
North Dakota	44	48	62	57	82	75	0	0	188	180
South Dakota	55	61	45	47	24	25	0	0	124	133
South Atlantic	5,934	5,967	3,594	3,708	1,005	1,219	12	9	10,544	10,903
Delaware	79	71	47	48	15	20	0	0	142	139
District of Columbia	42	38	120	118	2	1	3	2	166	159
Florida	2,223	2,133	1,105	1,086	142	166	1	1	3,470	3,386
Georgia	1,010	1,128	563	693	241	367	1	2	1,815	2,190
Maryland	462	416	322	348	30	35	4	3	819	802
North Carolina	852	811	491	449	188	180	0	0	1,532	1,440
South Carolina	509	529	276	277	159	216	0	0	944	1,023
Virginia	624	709	597	621	138	144	3	1	1,362	1,476
West Virginia	131	131	74	68	89	90	0	0	294	289
East South Central	1,648	1,853	1,084	1,189	580	724	0	0	3,312	3,766
Alabama	522	563	300	319	207	260	0	0	1,030	1,142
Kentucky	330	383	206	236	148	207	0	0	683	825
Mississippi	279	273	178	166	100	100	0	0	556	539
Tennessee	516	634	401	469	125	156	0	0	1,043	1,259
West South Central	3,810	4,047	1,902	2,134	1,268	1,479	1	1	6,981	7,660
Arkansas	251	283	124	133	124	142	0	0	499	558
Louisiana	424	509	233	296	189	310	0	0	846	1,116
Oklahoma	366	431	230	259	137	158	0	0	733	849
Texas	2,770	2,823	1,314	1,445	818	868	1	1	4,903	5,138
Mountain	1,952	1,751	1,223	1,126	704	683	1	1	3,880	3,561
Arizona	817	674	456	381	111	112	0	0	1,384	1,167
Colorado	302	335	235	250	123	133	1	1	661	718
Idaho	107	101	59	56	107	103	0	0	273	260
Montana	55	49	52	44	35	26	0	0	142	119
Nevada	351	274	162	143	146	117	0	0	659	534
New Mexico	130	124	116	113	62	70	0	0	308	307
Utah	163	165	113	109	64	61	1	1	340	336
Wyoming	27	28	31	30	55	62	0	0	113	120
Pacific Contiguous	2,959	2,901	3,246	2,911	1,039	1,068	14	9	7,258	6,890
California	2,437	2,409	2,852	2,543	821	873	13	8	6,123	5,833
Oregon	221	199	156	139	106	90	0	0	483	429
Washington	302	292	238	229	112	105	1	1	652	628
Pacific Noncontiguous	128	142	130	144	115	139	0	0	373	425
Alaska	35	35	42	41	20	22	0	0	98	98
Hawaii	93	107	87	103	95	117	0	0	275	326
U.S. Total	25,374	25,536	17,372	17,395	7,518	8,392	84	70	50,347	51,394

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through July 2023 and 2022 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	7,961	6,751	5,453	5,116	1,371	1,395	36	32	14,822	13,294
Connecticut	2,264	1,867	1,313	1,220	230	243	21	16	3,828	3,346
Maine	797	688	418	383	175	167	0	0	1,390	1,238
Massachusetts	3,357	2,889	2,684	2,553	634	656	13	13	6,687	6,112
New Hampshire	824	641	501	419	177	167	0	0	1,502	1,226
Rhode Island	460	408	341	348	71	65	2	2	874	823
Vermont	260	258	195	192	85	98	0	0	540	548
Middle Atlantic	14,728	14,546	12,356	12,395	3,347	3,488	281	250	30,711	30,679
New Jersey	2,893	2,970	2,900	2,952	425	463	19	20	6,236	6,405
New York	6,297	6,507	7,133	7,192	607	685	235	205	14,272	14,589
Pennsylvania	5,538	5,069	2,323	2,251	2,316	2,340	27	25	10,204	9,686
East North Central	17,206	17,285	12,112	11,882	8,737	9,035	20	23	38,075	38,226
Illinois	4,153	4,233	3,058	3,134	2,041	2,153	18	20	9,270	9,540
Indiana	2,839	2,937	1,680	1,694	2,031	2,149	1	1	6,551	6,781
Michigan	3,573	3,685	2,831	2,698	1,344	1,349	0	0	7,748	7,733
Ohio	4,444	4,325	2,842	2,759	2,170	2,246	1	2	9,457	9,332
Wisconsin	2,198	2,105	1,701	1,598	1,150	1,137	0	0	5,049	4,841
West North Central	8,297	8,405	6,278	6,181	4,561	4,501	3	3	19,140	19,090
Iowa	1,163	1,201	742	755	1,085	1,089	0	0	2,990	3,045
Kansas	1,103	1,168	1,036	1,035	551	561	0	0	2,690	2,764
Minnesota	2,012	1,976	1,615	1,580	1,087	1,067	1	2	4,715	4,625
Missouri	2,595	2,655	1,689	1,647	589	620	1	1	4,875	4,923
Nebraska	701	684	503	486	550	528	0	0	1,755	1,698
North Dakota	334	340	408	389	554	487	0	0	1,296	1,216
South Dakota	388	381	286	289	146	149	0	0	820	819
South Atlantic	31,181	30,589	21,242	20,414	6,302	6,740	68	54	58,793	57,797
Delaware	434	404	281	265	89	106	0	0	805	776
District of Columbia	217	207	677	651	11	8	17	14	921	881
Florida	12,037	10,951	6,933	6,355	1,047	1,005	5	5	20,020	18,315
Georgia	4,688	5,093	3,094	3,438	1,325	1,745	6	8	9,114	10,284
Maryland	2,440	2,364	2,000	1,937	194	205	27	19	4,660	4,524
North Carolina	4,386	4,404	2,684	2,534	1,111	1,098	1	1	8,182	8,037
South Carolina	2,515	2,667	1,505	1,470	1,032	1,179	0	0	5,052	5,316
Virginia	3,628	3,634	3,611	3,330	888	834	13	8	8,140	7,807
West Virginia	837	864	458	434	605	560	0	0	1,900	1,859
East South Central	8,854	9,378	6,304	6,384	3,800	4,195	0	0	18,958	19,957
Alabama	2,637	2,800	1,694	1,708	1,290	1,386	0	0	5,621	5,894
Kentucky	1,827	2,032	1,245	1,302	1,018	1,293	0	0	4,090	4,628
Mississippi	1,434	1,416	1,028	954	661	633	0	0	3,123	3,003
Tennessee	2,956	3,129	2,337	2,419	831	884	0	0	6,124	6,432
West South Central	18,039	18,413	10,873	11,235	7,890	8,444	8	7	36,810	38,100
Arkansas	1,281	1,320	687	674	731	749	0	0	2,700	2,743
Louisiana	2,045	2,260	1,425	1,512	1,429	1,632	1	1	4,899	5,405
Oklahoma	1,641	1,805	1,165	1,210	829	863	0	0	3,634	3,878
Texas	13,072	13,028	7,596	7,839	4,901	5,200	7	7	25,577	26,074
Mountain	8,629	8,049	6,448	5,967	3,870	3,571	10	9	18,957	17,596
Arizona	3,067	2,861	2,121	1,923	636	603	1	1	5,825	5,388
Colorado	1,647	1,673	1,366	1,365	756	757	5	5	3,774	3,800
Idaho	627	589	340	318	394	373	0	0	1,360	1,280
Montana	423	377	348	297	210	159	0	0	981	833
Nevada	1,353	1,079	853	685	735	539	1	0	2,941	2,304
New Mexico	587	584	576	573	406	410	0	0	1,569	1,567
Utah	720	688	638	606	344	344	4	3	1,706	1,641
Wyoming	205	198	206	200	389	387	0	0	801	784
Pacific Contiguous	17,346	16,542	17,254	15,739	5,610	5,561	72	55	40,281	37,896
California	13,233	12,776	14,525	13,268	4,184	4,283	64	47	32,007	30,374
Oregon	1,542	1,358	1,020	878	671	563	2	1	3,235	2,800
Washington	2,570	2,407	1,709	1,593	754	715	6	7	5,039	4,722
Pacific Noncontiguous	932	920	938	909	852	829	0	0	2,721	2,659
Alaska	283	273	309	295	151	151	0	0	744	720
Hawaii	648	646	629	614	701	678	0	0	1,978	1,939
U.S. Total	133,174	130,878	99,257	96,221	46,340	47,761	497	434	279,268	275,294

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	27.06	21.78	18.41	17.11	15.79	15.79	11.59	10.81	21.90	18.96
Connecticut	26.78	19.41	18.12	16.28	15.40	14.85	19.79	15.77	22.27	17.73
Maine	27.81	23.11	17.80	15.43	12.51	11.50	--	--	21.24	17.78
Massachusetts	27.46	23.93	18.74	18.09	17.73	18.64	6.62	6.86	22.08	20.39
New Hampshire	29.28	21.82	19.83	17.02	15.24	14.90	--	--	23.37	18.86
Rhode Island	25.95	19.40	16.60	14.94	18.77	17.58	16.73	17.53	21.09	17.24
Vermont	20.46	20.22	17.68	17.30	11.11	12.02	--	--	17.35	17.16
Middle Atlantic	19.74	18.70	16.38	16.30	7.92	9.22	14.82	13.54	16.24	16.02
New Jersey	18.54	17.14	15.01	14.63	12.81	13.95	13.83	13.60	16.58	15.84
New York	22.27	21.88	19.75	19.94	7.03	8.40	15.83	14.81	19.44	19.45
Pennsylvania	17.97	16.62	11.02	11.16	7.59	8.91	10.04	9.06	12.65	12.62
East North Central	16.13	15.98	11.82	12.07	8.04	9.02	6.97	8.13	12.22	12.64
Illinois	14.90	16.60	11.35	12.59	8.40	9.36	6.84	7.59	11.86	13.26
Indiana	14.50	15.00	11.80	13.16	7.79	9.28	10.66	12.66	11.13	12.32
Michigan	19.32	18.03	13.30	12.49	8.31	8.71	14.05	12.34	14.27	13.68
Ohio	15.85	14.84	10.58	10.78	7.29	8.59	6.08	14.21	11.47	11.73
Wisconsin	16.94	15.55	12.95	11.92	9.19	9.15	16.50	17.24	13.15	12.29
West North Central	14.39	14.38	11.46	11.74	8.41	8.77	13.12	13.66	11.59	11.87
Iowa	15.07	15.61	12.06	12.87	8.63	9.17	--	--	11.30	11.97
Kansas	13.70	14.91	11.36	12.38	8.00	9.16	--	--	11.48	12.60
Minnesota	15.45	15.15	13.13	13.16	9.44	9.58	13.49	14.43	12.82	12.84
Missouri	14.66	14.22	11.82	11.23	8.99	9.50	12.86	12.91	12.79	12.48
Nebraska	12.43	12.03	9.78	9.53	7.81	7.58	--	--	9.84	9.63
North Dakota	12.57	12.54	7.78	9.62	6.86	6.84	--	--	8.02	8.68
South Dakota	13.23	13.07	10.44	10.76	8.19	8.42	--	--	10.87	11.09
South Atlantic	14.34	14.08	10.90	11.38	8.17	9.16	10.22	10.67	12.15	12.34
Delaware	15.12	13.41	11.35	11.14	8.26	10.24	--	--	12.59	12.03
District of Columbia	16.61	13.89	17.21	16.14	10.93	7.70	9.19	9.56	16.70	15.26
Florida	14.98	13.94	11.45	11.07	9.39	9.76	11.16	10.06	13.34	12.63
Georgia	14.36	16.02	11.71	14.69	8.25	12.25	8.39	15.67	12.28	14.83
Maryland	16.05	14.28	12.22	12.85	9.83	10.64	11.10	9.84	13.97	13.41
North Carolina	12.71	12.03	9.90	9.21	7.71	7.10	9.28	7.16	10.86	10.18
South Carolina	13.61	14.25	10.74	12.15	7.23	8.19	--	--	11.09	11.84
Virginia	13.98	14.42	9.12	9.76	9.29	8.70	10.91	10.70	10.87	11.40
West Virginia	14.11	13.76	10.83	10.41	7.27	7.21	--	--	10.38	10.13
East South Central	13.07	13.51	12.17	12.74	6.99	8.28	--	--	11.11	11.85
Alabama	14.43	14.98	13.20	14.04	7.64	8.95	--	--	11.96	12.78
Kentucky	12.39	13.21	11.19	12.02	6.64	8.59	--	--	10.16	11.36
Mississippi	13.03	12.35	12.18	11.49	6.93	6.97	--	--	11.04	10.58
Tennessee	12.33	13.07	12.01	12.82	6.54	7.89	--	--	11.04	12.00
West South Central	13.26	13.46	9.34	10.47	6.61	8.47	7.70	7.01	10.22	11.28
Arkansas	12.52	12.73	10.50	10.77	7.47	8.35	16.10	17.61	10.29	10.82
Louisiana	11.23	13.81	9.71	12.69	5.47	8.93	10.91	12.65	8.78	11.75
Oklahoma	12.46	13.35	10.04	11.38	6.90	8.03	--	--	10.16	11.34
Texas	13.83	13.50	9.07	9.94	6.77	8.42	7.48	6.60	10.52	11.22
Mountain	14.08	13.15	11.71	11.04	8.44	8.14	11.28	10.97	11.88	11.16
Arizona	14.13	13.07	12.73	11.54	8.56	8.74	11.37	11.03	12.98	11.98
Colorado	14.22	14.51	12.28	12.59	8.91	9.21	10.40	10.13	12.17	12.51
Idaho	11.82	11.22	9.32	8.87	8.20	7.65	--	--	9.60	9.04
Montana	13.10	11.71	12.36	10.62	8.32	6.12	--	--	11.27	9.48
Nevada	16.35	13.49	12.59	10.17	12.12	9.92	12.97	9.75	14.21	11.57
New Mexico	14.71	15.08	12.08	12.37	5.91	7.15	--	--	10.64	11.31
Utah	11.75	11.48	8.40	8.83	7.61	6.89	12.31	12.80	9.52	9.43
Wyoming	12.41	11.81	9.98	9.73	6.61	7.14	--	--	8.30	8.49
Pacific Contiguous	23.44	21.47	22.24	19.89	14.53	14.00	19.71	14.79	21.07	19.22
California	29.58	26.75	26.76	23.76	21.00	20.13	21.27	15.69	26.78	24.21
Oregon	13.12	11.74	10.19	9.14	7.12	6.23	11.31	10.73	10.27	9.18
Washington	11.16	10.42	9.88	9.49	6.38	5.71	10.07	10.14	9.49	8.87
Pacific Noncontiguous	34.39	37.19	28.87	32.07	27.03	33.16	--	--	29.90	34.00
Alaska	24.88	24.25	20.63	19.99	16.47	19.54	--	--	20.82	21.21
Hawaii	40.22	45.10	35.81	42.36	31.36	38.15	--	--	35.39	41.55
U.S. Total	15.91	15.41	13.11	13.15	8.45	9.41	13.50	12.37	13.19	13.25

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through July 2023 and 2022 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD	July 2023 YTD	July 2022 YTD
New England	29.58	23.72	19.31	17.83	15.72	15.24	12.72	10.93	23.10	19.96
Connecticut	31.30	24.01	20.00	18.13	15.27	14.70	20.66	17.15	24.84	20.59
Maine	27.46	22.61	17.91	16.02	12.32	11.58	--	--	20.88	18.01
Massachusetts	30.23	24.85	19.48	18.37	17.83	17.42	7.51	7.24	23.38	20.73
New Hampshire	30.51	22.35	21.30	17.50	15.84	14.95	--	--	24.34	19.23
Rhode Island	26.99	22.03	16.23	16.07	18.97	17.57	16.84	17.45	20.85	18.71
Vermont	20.50	19.90	17.70	17.22	11.29	12.02	--	--	17.30	16.99
Middle Atlantic	19.48	17.88	15.10	14.78	8.07	8.26	14.36	12.68	15.29	14.65
New Jersey	17.64	16.80	14.10	13.84	12.04	12.45	13.43	12.89	15.35	14.94
New York	21.92	21.47	17.55	17.63	6.94	7.50	15.24	13.67	17.92	17.85
Pennsylvania	18.17	15.20	11.27	10.36	7.93	7.97	9.91	7.86	12.67	11.43
East North Central	16.29	15.02	12.00	11.55	8.13	8.27	7.17	7.74	12.11	11.67
Illinois	16.40	15.16	11.56	11.40	8.56	8.75	7.23	7.45	12.22	11.88
Indiana	15.26	14.35	12.81	12.59	8.49	8.50	12.63	11.92	11.77	11.45
Michigan	18.50	17.61	13.31	12.43	8.16	8.33	13.38	12.17	13.58	13.14
Ohio	15.21	13.46	10.67	10.39	7.32	7.62	2.84	8.87	11.06	10.58
Wisconsin	16.66	15.40	12.62	11.69	8.49	8.34	16.48	17.28	12.56	11.81
West North Central	12.90	12.55	10.54	10.43	7.70	7.77	10.45	10.08	10.45	10.37
Iowa	13.03	12.94	10.38	10.47	6.82	7.04	--	--	9.35	9.53
Kansas	13.77	13.83	11.29	11.44	8.31	8.20	--	--	11.30	11.36
Minnesota	14.38	13.92	12.37	12.05	9.16	9.17	12.44	12.23	12.11	11.87
Missouri	12.56	11.90	10.06	9.54	7.95	7.90	8.75	7.92	10.86	10.38
Nebraska	11.03	10.73	9.11	8.86	7.44	7.19	--	--	9.10	8.84
North Dakota	10.68	10.70	8.13	9.05	6.75	7.03	--	--	7.93	8.44
South Dakota	12.06	11.99	9.96	10.18	7.96	8.12	--	--	10.35	10.43
South Atlantic	14.52	13.31	11.09	10.73	7.63	7.74	10.24	9.39	12.01	11.38
Delaware	15.27	13.08	11.75	10.53	7.94	8.77	--	--	12.65	11.38
District of Columbia	16.01	13.83	16.84	15.26	10.91	7.72	9.89	10.46	16.33	14.66
Florida	15.27	13.70	11.95	11.03	9.65	9.01	11.33	10.14	13.56	12.31
Georgia	13.81	13.81	11.37	12.57	6.89	8.91	7.07	9.18	11.33	12.26
Maryland	16.10	14.10	13.02	12.12	9.81	9.77	11.02	8.42	14.23	12.90
North Carolina	12.93	11.74	9.64	8.85	7.10	6.58	8.30	7.33	10.57	9.70
South Carolina	14.12	13.73	10.87	11.47	6.76	6.96	--	--	10.77	10.81
Virginia	14.54	12.93	9.32	9.05	8.84	7.73	11.09	10.42	11.02	10.30
West Virginia	13.98	12.97	11.06	10.27	7.19	6.57	--	--	10.24	9.57
East South Central	13.16	12.67	12.31	12.09	6.85	7.08	--	--	10.90	10.72
Alabama	14.61	14.03	13.22	13.09	7.08	7.40	--	--	11.45	11.39
Kentucky	12.47	12.43	11.61	11.70	6.75	7.34	--	--	10.11	10.26
Mississippi	13.58	12.38	12.78	11.86	7.15	6.71	--	--	11.21	10.39
Tennessee	12.32	11.91	11.91	11.76	6.42	6.54	--	--	10.83	10.66
West South Central	13.50	12.64	9.24	9.40	6.44	7.00	7.56	7.12	9.84	9.87
Arkansas	12.16	11.53	10.38	9.99	6.82	7.09	14.74	16.30	9.68	9.54
Louisiana	11.65	12.05	10.61	11.20	6.10	6.91	11.10	11.22	9.00	9.67
Oklahoma	11.99	11.97	9.18	9.94	6.33	6.62	--	--	9.21	9.63
Texas	14.24	12.98	8.94	9.00	6.51	7.09	7.33	6.86	10.14	9.99
Mountain	13.56	12.64	10.90	10.15	7.78	7.14	10.85	10.24	10.98	10.20
Arizona	13.83	12.97	11.64	10.76	7.79	7.35	10.02	9.57	11.99	11.19
Colorado	14.18	13.95	11.56	11.28	8.54	8.46	9.92	9.43	11.67	11.48
Idaho	10.75	10.31	8.64	8.22	7.14	6.64	--	--	8.91	8.42
Montana	12.16	10.98	11.88	10.26	7.89	5.94	--	--	10.82	9.25
Nevada	17.00	13.37	11.84	9.11	10.35	7.46	12.90	9.06	13.21	10.10
New Mexico	13.87	13.76	10.84	10.94	5.93	6.53	--	--	9.58	9.95
Utah	11.09	10.84	8.39	8.39	7.02	6.43	12.31	12.22	8.96	8.67
Wyoming	11.13	10.96	9.63	9.55	6.78	6.76	--	--	8.23	8.16
Pacific Contiguous	21.09	19.61	19.08	17.44	12.52	11.66	14.61	11.89	18.48	17.01
California	28.59	26.29	22.89	20.75	17.94	16.39	15.33	12.29	23.98	21.85
Oregon	12.51	11.25	10.29	9.25	7.09	6.16	11.34	10.25	10.20	9.12
Washington	10.87	10.17	10.04	9.48	6.27	5.76	10.41	10.00	9.55	8.92
Pacific Noncontiguous	34.34	33.53	30.71	29.60	30.99	30.15	--	--	31.96	31.04
Alaska	23.54	23.01	20.82	19.75	18.77	18.95	--	--	21.28	20.68
Hawaii	42.96	41.58	40.07	38.94	36.07	34.74	--	--	39.39	38.13
U.S. Total	15.92	14.67	12.67	12.19	8.06	8.15	12.77	11.34	12.70	12.12

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.7. Number of Ultimate Customers Served by Sector: 2013 - July 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	139,825,387	19,316,856	1,053,415	81	160,195,739
Year 2021					
January	137,260,791	18,915,626	995,987	84	157,172,488
February	136,159,824	18,722,180	981,871	85	155,863,960
March	138,704,308	19,074,182	1,011,356	84	158,789,930
April	138,082,070	19,071,189	1,014,178	84	158,167,521
May	137,887,032	19,061,795	1,014,231	84	157,963,142
June	138,706,123	19,185,294	1,038,032	80	158,929,529
July	138,712,738	19,172,792	1,033,826	80	158,919,436
August	138,846,236	19,174,446	1,045,969	81	159,066,732
Sept	138,912,493	19,181,762	1,043,313	82	159,137,650
October	138,487,361	19,194,629	1,020,891	82	158,702,963
November	138,224,422	19,127,343	1,021,133	82	158,372,980
December	139,720,469	19,345,225	1,045,799	82	160,111,575
Year 2022					
January	138,341,944	19,141,145	1,023,762	80	158,506,931
February	138,764,658	19,144,783	1,015,597	80	158,925,118
March	140,338,045	19,421,786	1,039,962	80	160,799,873
April	138,824,502	19,240,293	1,033,263	81	159,098,139
May	139,647,354	19,316,333	1,050,572	81	160,014,340
June	140,097,454	19,381,279	1,069,647	81	160,548,461
July	139,668,253	19,298,591	1,064,673	81	160,031,598
August	140,587,372	19,389,438	1,082,558	81	161,059,449
Sept	140,265,361	19,358,647	1,075,394	81	160,699,483
October	140,339,016	19,361,196	1,065,716	81	160,766,009
November	140,203,229	19,344,200	1,053,232	81	160,600,742
December	140,827,460	19,404,581	1,066,602	81	161,298,724
Year 2023					
January	140,755,363	19,381,188	1,065,235	106	161,201,892
February	140,200,993	19,280,288	1,056,690	80	160,538,051
March	141,669,130	19,468,858	1,072,513	81	162,210,582
April	140,412,348	19,254,478	1,059,668	81	160,726,575
May	141,388,515	19,443,224	1,088,477	80	161,920,296
June	141,557,323	19,457,648	1,097,388	81	162,112,440
July	140,735,633	19,306,033	1,089,889	82	161,131,637
Rolling 12 Months Ending in July					
2022	139,156,099	19,247,301	1,039,548	81	159,443,030
2023	140,745,145	19,370,815	1,072,780	83	161,188,823

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2021 and prior years are final. Values for 2023 and 2022 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State:
July 2023 and 2022

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	6,568,906	6,521,491	941,486	933,474	21,586	21,742	6	6	7,531,984	7,476,713
Connecticut	1,544,193	1,534,717	156,793	155,872	3,940	3,950	3	3	1,704,929	1,694,542
Maine	723,282	712,123	106,672	105,362	1,973	2,080	0	0	831,927	819,565
Massachusetts	2,887,545	2,859,416	445,804	439,903	10,714	10,710	2	2	3,344,065	3,310,031
New Hampshire	636,447	643,231	109,693	111,128	3,116	3,174	0	0	749,256	757,533
Rhode Island	456,796	453,528	60,575	60,047	1,597	1,583	1	1	518,969	515,159
Vermont	320,643	318,476	61,949	61,162	246	245	0	0	382,838	379,883
Middle Atlantic	16,626,719	16,486,442	2,455,785	2,429,097	34,125	34,388	20	19	19,116,649	18,949,946
New Jersey	3,726,969	3,681,333	538,767	534,506	11,250	11,402	7	6	4,276,993	4,227,247
New York	7,382,600	7,319,259	1,181,793	1,164,210	7,060	7,163	8	8	8,571,461	8,490,640
Pennsylvania	5,517,150	5,485,850	735,225	730,381	15,815	15,823	5	5	6,268,195	6,232,059
East North Central	20,770,680	20,590,020	2,566,835	2,555,989	55,665	55,406	10	10	23,393,190	23,201,425
Illinois	5,386,900	5,337,339	639,432	633,555	5,624	5,627	3	3	6,031,959	5,976,524
Indiana	2,966,915	2,933,502	373,726	372,930	19,092	19,043	1	1	3,359,734	3,325,476
Michigan	4,509,830	4,484,821	560,084	555,742	5,670	5,761	2	2	5,075,586	5,046,326
Ohio	5,081,995	5,045,004	625,167	628,971	19,637	19,389	2	2	5,726,801	5,693,366
Wisconsin	2,825,040	2,789,354	368,426	364,791	5,642	5,586	2	2	3,199,110	3,159,733
West North Central	9,943,181	9,809,001	1,520,119	1,516,428	132,048	131,466	3	3	11,595,351	11,456,898
Iowa	1,451,171	1,436,804	249,933	248,477	8,585	8,573	0	0	1,709,689	1,693,854
Kansas	1,331,578	1,317,533	248,479	247,448	25,160	25,362	0	0	1,605,217	1,590,343
Minnesota	2,569,843	2,534,276	306,454	307,806	9,404	9,289	1	1	2,885,702	2,851,372
Missouri	2,868,689	2,822,280	398,102	397,417	9,804	9,806	2	2	3,276,597	3,229,505
Nebraska	898,508	883,907	162,064	161,172	65,437	64,774	0	0	1,126,009	1,109,853
North Dakota	394,652	393,419	77,292	77,305	9,319	9,379	0	0	481,263	480,103
South Dakota	428,740	420,782	77,795	76,803	4,339	4,283	0	0	510,874	501,868
South Atlantic	30,139,865	30,067,091	3,995,598	4,020,998	89,601	88,696	13	13	34,225,077	34,176,798
Delaware	463,940	456,746	59,642	59,075	820	814	0	0	524,402	516,635
District of Columbia	312,520	307,511	27,338	27,185	1	1	3	3	339,862	334,700
Florida	10,201,908	10,456,864	1,285,216	1,335,646	27,034	25,780	2	2	11,514,160	11,818,292
Georgia	4,734,023	4,642,254	610,036	604,681	24,868	25,129	1	1	5,368,928	5,272,065
Maryland	2,430,341	2,411,368	261,069	260,702	9,074	9,025	5	5	2,700,489	2,681,100
North Carolina	4,972,279	4,865,718	742,097	735,780	9,370	9,419	1	1	5,723,747	5,610,918
South Carolina	2,527,786	2,468,523	407,851	402,832	3,639	3,640	0	0	2,939,276	2,874,995
Virginia	3,633,136	3,596,154	451,328	445,446	3,723	3,703	1	1	4,088,188	4,045,304
West Virginia	863,932	861,953	151,021	149,651	11,072	11,185	0	0	1,026,025	1,022,789
East South Central	8,797,187	8,676,899	1,463,509	1,461,014	26,109	26,434	0	0	10,286,805	10,164,347
Alabama	2,372,768	2,338,064	381,445	377,816	7,989	8,027	0	0	2,762,202	2,723,907
Kentucky	2,022,924	2,001,657	322,013	319,219	5,781	5,852	0	0	2,350,718	2,326,728
Mississippi	1,358,732	1,342,545	243,667	242,749	11,320	11,535	0	0	1,613,719	1,596,829
Tennessee	3,042,763	2,994,633	516,384	521,230	1,019	1,020	0	0	3,560,166	3,516,883
West South Central	17,572,760	17,596,223	2,358,302	2,397,702	429,533	406,199	6	6	20,360,601	20,400,130
Arkansas	1,464,892	1,447,215	208,168	204,732	41,755	40,168	2	2	1,714,817	1,692,117
Louisiana	2,165,765	2,142,543	301,575	303,461	19,004	20,512	1	1	2,486,345	2,466,517
Oklahoma	1,869,472	1,847,978	302,503	299,308	18,986	19,383	0	0	2,190,961	2,166,669
Texas	12,072,631	12,158,487	1,546,056	1,590,201	349,788	326,136	3	3	13,968,478	14,074,827
Mountain	10,573,384	10,385,074	1,491,081	1,478,375	103,186	101,168	5	5	12,167,656	11,964,622
Arizona	3,032,999	2,975,347	341,955	337,779	7,248	7,335	2	2	3,382,204	3,320,463
Colorado	2,458,487	2,419,988	393,677	389,815	14,947	14,865	1	1	2,867,112	2,824,669
Idaho	842,385	824,450	121,565	119,294	29,631	29,331	0	0	993,581	973,075
Montana	549,676	539,918	116,173	114,759	13,739	13,806	0	0	679,588	668,483
Nevada	1,291,137	1,269,268	173,789	173,291	4,897	3,495	1	1	1,469,824	1,446,055
New Mexico	912,283	901,272	145,992	145,940	9,864	9,457	0	0	1,068,139	1,056,669
Utah	1,201,525	1,173,034	138,814	138,495	10,942	11,057	1	1	1,351,282	1,322,587
Wyoming	284,892	281,797	59,116	59,002	11,918	11,822	0	0	355,926	352,621
Pacific Contiguous	18,997,942	18,795,174	2,395,602	2,388,295	196,043	197,190	19	19	21,589,606	21,380,678
California	13,825,924	13,697,620	1,738,648	1,733,882	143,386	144,970	12	12	15,707,970	15,576,484
Oregon	1,849,150	1,831,155	249,028	248,733	25,521	25,604	2	2	2,123,701	2,105,494
Washington	3,322,868	3,266,399	407,926	405,680	27,136	26,616	5	5	3,757,935	3,698,700
Pacific Noncontiguous	745,009	740,838	117,716	117,219	1,993	1,984	0	0	864,718	860,041
Alaska	297,884	296,062	57,472	57,071	1,187	1,163	0	0	356,543	354,296
Hawaii	447,125	444,776	60,244	60,148	806	821	0	0	508,175	505,745
U.S. Total	140,735,633	139,668,253	19,306,033	19,298,591	1,089,889	1,064,673	82	81	161,131,637	160,031,598

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Chapter 6

Capacity

Table 6.1. Electric Generating Summer Capacity Changes (MW), June 2023 to July 2023

		As of End of June 2023	Activity During July 2023 as Reported to EIA		As of End of July 2023	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... *Onshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*144,324.2*	*276.5*	*23.5*	*144,577.2*	*253.0*	*3,682.2*	*7,059.0*	*288.9*	*6,437.2*	*0.0*	*0.0*	*288.9*	*6,437.2*	*144,866.1*	*151,014.4*
..... *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	144,365.5	276.5	23.5	144,618.5	253.0	3,682.2	7,059.0	288.9	8,582.2	0.0	0.0	288.9	8,582.2	144,907.4	153,200.7
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*77,258.9*	*2,045.2*	*6.2*	*79,297.9*	*2,039.0*	*8,669.6*	*13,908.9*	*3,160.3*	*34,891.2*	*0.0*	*0.0*	*3,160.3*	*34,891.2*	*82,458.2*	*114,189.1*
..... *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	78,738.9	2,045.2	6.2	80,777.9	2,039.0	8,669.6	13,908.9	3,160.3	34,891.2	0.0	0.0	3,160.3	34,891.2	83,938.2	115,669.1
..... Conventional Hydroelectric	Utility Scale Facilities	80,051.2	4.0	0.0	80,055.2	4.0	75.7	84.7	3.5	31.3	2.1	5.4	1.4	25.9	80,056.6	80,081.1
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*7,777.9*	*0.9*	*0.0*	*7,778.8*	*0.9*	*-222.3*	*-222.3*	*0.0*	*0.0*	*0.0*	*63.2*	*0.0*	*-63.2*	*7,778.8*	*7,715.6*
..... *Landfill Gas*	*Utility Scale Facilities*	*1,654.4*	*0.0*	*3.1*	*1,651.3*	*-3.1*	*-96.3*	*-104.9*	*0.0*	*4.6*	*0.0*	*8.0*	*0.0*	*-3.4*	*1,651.3*	*1,647.9*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,050.6*	*0.0*	*0.0*	*2,050.6*	*0.0*	*-0.2*	*-0.2*	*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*	*-5.4*	*-8.6*	*2.2*	*25.8*	*0.0*	*0.0*	*2.2*	*25.8*	*593.9*	*617.5*
..... Biomass Sources Subtotal	Utility Scale Facilities	12,074.6	0.9	3.1	12,072.4	-2.2	-324.2	-336.0	2.2	30.4	0.0	71.2	2.2	-40.8	12,074.6	12,031.6
..... Geothermal	Utility Scale Facilities	2,673.6	0.0	0.0	2,673.6	0.0	21.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0	2,673.6	2,673.6
... Renewable Sources Subtotal	***Utility Scale Facilities***	***317,904.5***	***2,326.6***	***32.8***	***320,198.3***	***2,293.8***	***12,125.0***	***20,760.2***	***3,454.9***	***43,535.1***	***2.1***	***76.6***	***3,452.8***	***43,458.5***	***323,651.1***	***363,656.8***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*294,212.3*	*17.4*	*145.5*	*294,084.2*	*-128.1*	*8,376.5*	*8,352.5*	*0.0*	*1,875.8*	*0.0*	*1,413.6*	*0.0*	*462.2*	*294,084.2*	*294,546.4*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*131,603.3*	*5.5*	*733.0*	*130,875.8*	*-727.5*	*-1,503.1*	*-1,271.1*	*57.0*	*2,076.4*	*0.0*	*938.8*	*57.0*	*1,137.6*	*130,932.8*	*132,013.4*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*76,044.7*	*0.0*	*3.3*	*76,041.4*	*-3.3*	*2,957.7*	*2,518.5*	*0.0*	*15.6*	*0.0*	*3,810.6*	*0.0*	*-3,795.0*	*76,041.4*	*72,246.4*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*5,569.9*	*131.6*	*0.0*	*5,701.5*	*131.6*	*348.3*	*348.0*	*2.2*	*266.2*	*0.0*	*0.0*	*2.2*	*266.2*	*5,703.7*	*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*	*346.7*	*0.0*	*0.0*	*346.7*	*0.0*	*18.4*	*29.4*	*0.0*	*14.0*	*0.0*	*0.0*	*0.0*	*14.0*	*346.7*	*360.7*
..... Natural Gas Subtotal	Utility Scale Facilities	507,886.9	154.5	881.8	507,159.6	-727.3	10,197.8	9,977.3	59.2	4,248.0	0.0	6,163.0	59.2	-1,915.0	507,218.8	505,244.6
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*183,483.4*	*2.1*	*649.3*	*182,836.2*	*-647.2*	*-14,659.5*	*-19,331.5*	*0.0*	*13.0*	*613.3*	*4,987.9*	*-613.3*	*-4,974.9*	*182,222.9*	*177,861.3*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*595.0*	*0.0*	*0.0*	*595.0*	*0.0*	*-161.0*	*-161.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*595.0*	*595.0*
..... Coal Subtotal	Utility Scale Facilities	184,078.4	2.1	649.3	183,431.2	-647.2	-14,820.5	-19,492.5	0.0	13.0	613.3	4,987.9	-613.3	-4,974.9	182,817.9	178,456.3
..... Petroleum Coke	Utility Scale Facilities	1,318.9	0.0	0.0	1,318.9	0.0	-69.1	-69.1	0.0	0.0	0.0	0.0	0.0	0.0	1,318.9	1,318.9
..... Petroleum Liquids	Utility Scale Facilities	27,802.2	662.8	54.0	28,411.0	608.8	2,952.6	2,881.2	10.8	33.8	0.0	428.5	10.8	-394.7	28,421.8	28,016.3
..... Other Gases	Utility Scale Facilities	1,698.2	26.9	0.0	1,725.1	26.9	-153.8	-159.1	0.0	0.0	0.0	0.0	0.0	0.0	1,725.1	1,725.1
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***722,784.6***	***846.3***	***1,585.1***	***722,045.8***	***-738.8***	***-1,893.0***	***-6,862.2***	***70.0***	***4,295.1***	***613.3***	***11,579.4***	***-543.3***	***-7,284.3***	***721,502.5***	***714,761.5***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	23,166.5	0.0	0.0	23,166.5	0.0	117.0	117.0	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	10,768.9	1,495.0	4.7	12,259.2	1,490.3	3,437.9	5,447.8	1,641.1	12,837.9	0.0	1.2	1,641.1	12,836.7	13,900.3	25,095.9
... Energy Storage Subtotal	***Utility Scale Facilities***	***33,982.4***	***1,495.0***	***4.7***	***35,472.7***	***1,490.3***	***3,554.9***	***5,564.8***	***1,641.1***	***12,967.9***	***0.0***	***1.2***	***1,641.1***	***12,966.7***	***37,113.8***	***48,439.4***
... Nuclear	***Utility Scale Facilities***	***94,767.4***	***1,114.1***	***108.6***	***95,772.9***	***1,005.5***	***1,008.3***	***1,008.3***	***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***	***1,405.1***	***0.0***	***26.9***	***1,378.2***	***-26.9***	***-96.0***	***-96.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***1,378.2***	***1,378.2***
TOTAL	**UTILITY SCALE FACILITIES**	**1,170,844.0**	**5,782.0**	**1,758.1**	**1,174,867.9**	**4,023.9**	**14,699.2**	**20,375.1**	**5,166.0**	**61,957.1**	**615.4**	**11,657.2**	**4,550.6**	**50,299.9**	**1,179,418.5**	**1,225,167.8**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*44,076.6*			*44,683.4*	*606.8*	*5,196.9*	*7,990.8*								
..... Estimated Total Solar Photovoltaic	All Facilities	121,335.5			123,981.3	2,645.8	13,866.5	21,899.7								
... Estimated Total Solar	***All Facilities***	***122,815.5***			***125,461.3***	***2,645.8***	***13,866.5***	***21,899.7***								

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 - July 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	70,628.3	39,486.5	110,114.8
Year 2021			
January	46,958.5	28,190.1	75,148.6
February	47,653.4	28,529.0	76,182.4
March	49,269.7	28,897.3	78,167.0
April	49,784.1	29,338.2	79,122.3
May	50,448.9	29,730.0	80,178.9
June	51,174.9	30,341.8	81,516.7
July	52,136.1	30,673.6	82,809.7
August	53,619.6	31,157.6	84,777.2
Sept	54,659.6	31,525.4	86,185.0
October	55,488.0	31,928.0	87,416.0
November	56,506.2	32,393.8	88,900.0
December	60,070.1	33,081.0	93,151.1
Year 2022			
January	61,160.7	33,531.3	94,692.0
February	61,483.9	34,132.4	95,616.3
March	62,434.9	34,673.4	97,108.3
April	62,886.5	35,136.5	98,023.0
May	63,580.0	35,646.0	99,226.0
June	64,796.3	36,171.1	100,967.4
July	65,389.0	36,692.6	102,081.6
August	66,089.6	37,245.8	103,335.4
Sept	66,855.1	37,863.7	104,718.8
October	67,387.0	38,421.6	105,808.6
November	68,190.0	39,017.1	107,207.1
December	70,628.3	39,486.5	110,114.8
Year 2023			
January	72,243.3	40,584.0	112,827.3
February	73,055.7	41,159.1	114,214.8
March	73,695.0	42,123.6	115,818.6
April	74,571.2	42,917.8	117,489.0
May	75,526.5	43,328.2	118,854.7
June	77,258.9	44,076.6	121,335.5
July	79,297.9	44,683.4	123,981.3

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

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - July 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	26,270.7	10,886.3	2,329.5	39,486.5
Year 2021				
January	17,531.5	8,601.4	2,057.2	28,190.1
February	17,807.3	8,645.3	2,076.4	28,529.0
March	18,047.8	8,752.1	2,097.4	28,897.3
April	18,392.4	8,837.3	2,108.6	29,338.2
May	18,678.3	8,924.6	2,127.1	29,730.0
June	19,119.1	9,076.8	2,145.9	30,341.8
July	19,403.9	9,132.0	2,137.6	30,673.6
August	19,744.8	9,257.6	2,155.2	31,157.6
Sept	20,053.8	9,294.5	2,177.2	31,525.4
October	20,370.7	9,372.4	2,184.9	31,928.0
November	20,682.7	9,512.0	2,199.1	32,393.8
December	21,116.2	9,752.0	2,212.7	33,081.0
Year 2022				
January	21,436.3	9,878.7	2,216.3	33,531.3
February	21,880.4	10,032.1	2,219.9	34,132.4
March	22,291.4	10,157.2	2,224.9	34,673.4
April	22,690.7	10,212.4	2,233.4	35,136.5
May	23,080.7	10,323.9	2,241.4	35,646.0
June	23,481.7	10,439.1	2,250.3	36,171.1
July	23,904.3	10,532.5	2,255.8	36,692.6
August	24,387.5	10,585.1	2,273.2	37,245.8
Sept	24,850.8	10,729.8	2,283.1	37,863.7
October	25,358.6	10,756.0	2,307.0	38,421.6
November	25,844.8	10,859.0	2,313.2	39,017.1
December	26,270.7	10,886.3	2,329.5	39,486.5
Year 2023				
January	27,117.7	11,126.1	2,340.3	40,584.0
February	27,524.9	11,290.6	2,343.5	41,159.1
March	28,162.9	11,568.7	2,392.0	42,123.6
April	28,741.3	11,729.1	2,447.4	42,917.8
May	29,019.5	11,860.5	2,448.2	43,328.2
June	29,703.5	11,913.3	2,459.8	44,076.6
July	30,228.1	11,991.4	2,463.9	44,683.4

Values are preliminary.
Improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, July 2023 and 2022 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	7,070.9	6,885.4	22,574.4	22,935.4	1,863.4	1,830.4	327.9	289.1	3,356.1	3,356.1	22.0	22.0	35,214.7	35,318.4
Connecticut	536.7	520.5	7,284.3	7,429.3	29.4	29.4	1.6	1.6	2,108.0	2,108.0	0.0	0.0	9,960.0	10,088.8
Maine	2,564.5	2,488.0	2,306.2	2,532.0	0.0	0.0	46.3	46.3	0.0	0.0	22.0	22.0	4,939.0	5,088.3
Massachusetts	1,936.1	1,870.0	8,807.4	8,797.6	1,834.0	1,801.0	256.1	227.3	0.0	0.0	0.0	0.0	12,833.6	12,695.9
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	387.0	363.7	1,780.1	1,780.1	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	2,170.1	2,146.8
Vermont	702.5	699.1	126.0	126.0	0.0	0.0	20.9	10.9	0.0	0.0	0.0	0.0	849.4	836.0
Middle Atlantic	13,441.1	12,628.6	72,126.0	73,437.3	3,343.2	3,348.8	324.4	220.7	15,854.5	15,891.2	11.2	11.2	105,100.4	105,537.8
New Jersey	1,314.2	1,266.9	11,501.4	11,767.9	420.0	420.0	69.7	42.7	3,456.7	3,456.7	11.2	11.2	16,773.2	16,965.4
New York	9,050.3	8,367.6	25,813.3	26,408.2	1,408.8	1,406.8	200.1	123.4	3,304.6	3,341.3	0.0	0.0	39,777.1	39,647.3
Pennsylvania	3,076.6	2,994.1	34,811.3	35,261.2	1,514.4	1,522.0	54.6	54.6	9,093.2	9,093.2	0.0	0.0	48,550.1	48,925.1
East North Central	22,923.1	20,400.6	104,712.0	107,366.5	2,185.6	2,185.6	177.5	160.2	18,215.6	18,230.4	169.8	169.8	148,383.6	148,513.1
Illinois	8,510.6	7,908.4	25,613.0	26,154.5	0.0	0.0	96.1	96.1	11,567.6	11,582.4	78.0	78.0	45,865.3	45,819.4
Indiana	4,860.5	4,216.3	22,150.8	22,558.1	0.0	0.0	36.0	36.0	0.0	0.0	88.0	88.0	27,135.3	26,898.4
Michigan	5,057.2	4,460.7	19,824.0	22,050.0	2,185.6	2,185.6	1.3	1.3	3,318.0	3,318.0	3.8	3.8	30,389.9	32,019.4
Ohio	2,125.0	1,814.7	23,864.5	23,344.6	0.0	0.0	38.8	26.8	2,134.0	2,134.0	0.0	0.0	28,162.3	27,320.1
Wisconsin	2,369.8	2,000.5	13,259.7	13,259.3	0.0	0.0	5.3	0.0	1,196.0	1,196.0	0.0	0.0	16,830.8	16,455.8
West North Central	44,130.5	42,729.3	57,404.6	58,661.3	657.0	657.0	31.8	24.8	4,842.0	4,899.0	12.2	12.2	107,078.1	106,983.6
Iowa	13,093.4	12,516.1	9,438.2	9,658.8	0.0	0.0	8.9	3.9	0.0	0.0	0.0	0.0	22,540.5	22,178.8
Kansas	8,290.6	8,287.6	8,913.2	8,924.0	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	18,429.6	18,437.4
Minnesota	6,636.7	6,375.2	10,121.2	10,251.8	0.0	0.0	16.0	15.0	1,657.0	1,657.0	6.1	6.1	18,437.0	18,305.1
Missouri	3,038.2	2,775.4	16,255.7	17,136.6	657.0	657.0	2.2	2.2	1,190.0	1,247.0	0.0	0.0	21,143.1	21,818.2
Nebraska	3,854.1	3,554.1	6,167.0	6,198.8	0.0	0.0	3.9	2.9	770.0	770.0	0.0	0.0	10,795.0	10,525.8
North Dakota	4,845.9	4,849.3	4,557.8	4,539.8	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	9,409.0	9,394.4
South Dakota	4,371.6	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	6,323.9	6,323.9
South Atlantic	35,087.4	31,540.0	154,383.3	156,871.7	8,180.4	8,100.4	767.4	683.7	25,866.8	24,752.8	366.9	462.9	224,652.2	222,411.5
Delaware	105.7	55.7	3,215.9	3,218.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,321.6	3,274.0
District of Columbia	30.5	28.5	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.1	49.1
Florida	8,670.7	6,836.3	55,992.1	55,088.5	0.0	0.0	558.2	509.0	3,666.0	3,666.0	312.9	312.9	69,199.9	66,412.7
Georgia	6,869.9	6,337.7	23,532.2	25,277.2	1,897.4	1,897.4	81.2	82.2	5,175.0	4,061.0	0.0	0.0	37,555.7	37,655.5
Maryland	1,471.0	1,328.3	8,760.3	8,766.7	0.0	0.0	7.7	5.0	1,707.8	1,707.8	0.0	0.0	11,946.8	11,807.8
North Carolina	8,937.4	8,565.7	21,342.6	21,318.2	86.0	86.0	58.3	36.0	5,149.6	5,149.6	54.0	54.0	35,627.9	35,209.5
South Carolina	3,247.3	3,009.5	11,665.6	11,617.6	2,956.0	2,876.0	4.0	4.0	6,600.4	6,600.4	0.0	0.0	24,473.3	24,107.5
Virginia	4,555.7	4,178.3	16,080.0	17,790.6	3,241.0	3,241.0	10.5	0.0	3,568.0	3,568.0	0.0	96.0	27,455.2	28,873.9
West Virginia	1,199.2	1,200.0	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	15,021.5
East South Central	9,766.6	9,187.1	60,938.4	60,465.4	1,616.3	1,616.3	2.3	1.0	11,375.9	11,376.4	1.4	1.4	83,700.9	82,647.6
Alabama	4,537.5	4,332.2	19,067.2	19,125.1	0.0	0.0	1.0	1.0	5,452.7	5,452.7	0.0	0.0	29,058.4	28,911.0
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	440.2	13,243.9	12,759.5	0.0	0.0	1.3	0.0	1,400.5	1,401.0	1.4	1.4	15,270.1	14,602.1
Tennessee	3,314.4	3,175.0	12,283.8	12,237.3	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,737.2	21,551.3
West South Central	69,875.2	62,934.9	141,586.7	140,754.5	288.0	288.0	2,994.3	1,569.4	8,934.0	8,930.7	548.2	549.1	224,226.4	215,026.6
Arkansas	1,821.9	1,816.5	11,257.8	11,291.9	30.0	30.0	22.0	22.0	1,822.0	1,817.8	0.0	0.0	14,953.7	14,978.2
Louisiana	758.6	688.6	21,546.6	21,714.0	0.0	0.0	0.5	0.5	2,132.0	2,132.9	329.2	330.1	24,766.9	24,866.1
Oklahoma	13,113.1	12,673.7	19,790.9	18,176.7	258.0	258.0	10.0	10.0	0.0	0.0	0.0	0.0	33,172.0	31,118.4
Texas	54,181.6	47,756.1	88,991.4	89,571.9	0.0	0.0	2,961.8	1,536.9	4,980.0	4,980.0	219.0	219.0	151,333.8	144,063.9
Mountain	39,963.1	37,358.1	58,285.1	58,503.7	806.7	797.1	1,337.8	311.0	3,937.0	3,937.0	123.7	123.7	104,453.4	101,030.6
Arizona	6,663.3	6,263.8	17,587.5	17,201.0	216.3	216.3	615.0	97.0	3,937.0	3,937.0	0.0	0.0	29,019.1	27,715.1
Colorado	7,741.2	6,943.3	10,498.8	10,941.0	590.4	580.8	235.2	10.2	0.0	0.0	9.1	9.1	19,074.7	18,484.4
Idaho	4,137.0	3,938.1	1,212.5	1,128.3	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,364.3	5,081.2
Montana	4,406.8	3,952.9	2,072.0	2,072.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	6,518.8	6,064.9
Nevada	5,674.8	5,237.0	8,081.4	7,821.6	0.0	0.0	248.8	200.0	0.0	0.0	6.5	6.5	14,011.5	13,265.1
New Mexico	5,573.3	5,348.3	4,848.0	5,362.1	0.0	0.0	237.8	2.8	0.0	0.0	0.7	0.7	10,659.8	10,713.9
Utah	2,360.7	2,268.7	7,311.5	7,304.3	0.0	0.0	1.0	1.0	0.0	0.0	40.2	40.2	9,713.4	9,614.2
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	76,543.6	74,442.1	45,873.5	45,567.4	4,225.9	4,225.9	6,074.2	3,389.9	3,391.0	3,391.0	94.4	94.4	136,202.6	131,110.7
California	37,584.1	35,885.7	38,058.9	37,749.8	3,911.9	3,911.9	6,033.2	3,348.9	2,240.0	2,240.0	94.4	94.4	87,922.5	83,230.7
Oregon	13,613.4	13,412.9	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	17,202.9
Washington	25,346.1	25,143.5	4,059.6	4,062.6	314.0	314.0	6.0	6.0	1,151.0	1,151.0	0.0	0.0	30,876.7	30,677.1
Pacific Noncontiguous	1,396.8	1,332.0	4,161.8	4,344.8	0.0	0.0	268.6	208.6	0.0	0.0	28.4	27.5	5,855.6	5,912.9
Alaska	541.2	542.4	2,181.9	2,184.9	0.0	0.0	93.7	93.7	0.0	0.0	0.9	0.0	2,817.7	2,821.0
Hawaii	855.6	789.6	1,979.9	2,159.9	0.0	0.0	174.9	114.9	0.0	0.0	27.5	27.5	3,037.9	3,091.9
U.S. Total	320,198.3	299,438.1	722,045.8	728,908.0	23,166.5	23,049.5	12,306.2	6,858.4	95,772.9	94,764.6	1,378.2	1,474.2	1,174,867.9	1,154,492.8

NM = Not meaningful due to large relative standard error.
Values are preliminary.

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of 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, July 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 Photovoltaic		Estimated Total Solar	
	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	1,575.7	1,559.7	2,291.6	2,121.4	0.0	0.0	1,950.2	1,950.7	1,253.4	1,253.6	0.0	0.0	7,070.9	6,885.4	4,740.0	3,651.8	7,031.6	5,773.2	7,031.6	5,773.2
Connecticut	5.0	5.0	272.9	255.7	0.0	0.0	119.2	119.2	139.6	140.6	0.0	0.0	536.7	520.5	903.8	754.5	1,176.7	1,010.2	1,176.7	1,010.2
Maine	1,029.5	1,009.5	320.6	264.1	0.0	0.0	725.8	725.8	488.6	488.6	0.0	0.0	2,564.5	2,488.0	420.1	257.2	740.7	521.3	740.7	521.3
Massachusetts	101.8	105.8	1,289.6	1,219.8	0.0	0.0	267.2	267.7	277.5	276.7	0.0	0.0	1,936.1	1,870.0	2,608.1	1,967.0	3,897.7	3,186.8	3,897.7	3,186.8
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	214.0	166.9	216.4	169.3	216.4	169.3
Rhode Island	77.3	77.3	266.9	243.6	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	387.0	363.7	421.2	350.6	688.1	594.2	688.1	594.2
Vermont	150.2	150.2	139.2	135.8	0.0	0.0	331.3	331.3	81.8	81.8	0.0	0.0	702.5	699.1	172.7	155.6	311.9	291.4	311.9	291.4
Middle Atlantic	3,994.6	3,657.4	2,845.5	2,363.0	0.0	0.0	5,505.2	5,507.7	1,095.8	1,100.5	0.0	0.0	13,441.1	12,628.6	6,074.5	5,242.1	8,920.0	7,605.1	8,920.0	7,605.1
New Jersey	7.6	7.6	1,103.6	1,053.2	0.0	0.0	12.3	12.3	190.7	193.8	0.0	0.0	1,314.2	1,266.9	2,483.9	2,199.3	3,587.5	3,252.5	3,587.5	3,252.5
New York	2,527.0	2,189.8	1,504.7	1,155.1	0.0	0.0	4,563.3	4,565.8	455.3	456.9	0.0	0.0	9,050.3	8,367.6	2,841.9	2,473.8	4,346.6	3,628.9	4,346.6	3,628.9
Pennsylvania	1,460.0	1,460.0	237.2	154.7	0.0	0.0	929.6	929.6	449.8	449.8	0.0	0.0	3,076.6	2,994.1	748.7	569.0	985.9	723.7	985.9	723.7
East North Central	16,447.6	15,549.9	4,560.8	2,865.4	0.0	0.0	876.7	876.7	1,038.0	1,108.6	0.0	0.0	22,923.1	20,400.6	2,021.7	1,627.1	6,582.5	4,492.5	6,582.5	4,492.5
Illinois	7,494.9	7,034.6	927.0	767.7	0.0	0.0	32.9	32.9	55.8	73.2	0.0	0.0	8,510.6	7,908.4	1,045.9	865.5	1,972.9	1,633.2	1,972.9	1,633.2
Indiana	3,453.1	3,453.1	1,263.7	619.5	0.0	0.0	71.6	71.6	72.1	72.1	0.0	0.0	4,860.5	4,216.3	237.7	190.8	1,501.4	810.3	1,501.4	810.3
Michigan	3,576.1	3,240.6	727.7	473.7	0.0	0.0	264.1	264.1	489.3	482.3	0.0	0.0	5,057.2	4,460.7	211.6	175.4	939.3	649.1	939.3	649.1
Ohio	1,097.3	1,097.3	851.2	481.2	0.0	0.0	101.9	101.9	74.6	134.3	0.0	0.0	2,125.0	1,814.7	324.6	242.7	1,175.8	723.9	1,175.8	723.9
Wisconsin	826.2	724.3	791.2	523.3	0.0	0.0	406.2	406.2	346.2	346.7	0.0	0.0	2,369.8	2,000.5	201.9	152.7	993.1	676.0	993.1	676.0
West North Central	38,753.4	37,401.6	1,618.8	1,532.6	0.0	0.0	3,363.9	3,363.1	393.7	432.0	0.0	0.0	44,130.5	42,729.3	1,017.9	772.3	2,636.7	2,304.9	2,636.7	2,304.9
Iowa	12,602.9	12,031.1	260.5	259.0	0.0	0.0	209.4	205.4	20.6	20.6	0.0	0.0	13,093.4	12,516.1	260.0	202.2	520.5	461.2	520.5	461.2
Kansas	8,238.1	8,238.1	36.5	33.5	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	8,290.6	8,287.6	79.1	51.9	115.6	85.4	115.6	85.4
Minnesota	4,928.7	4,698.3	1,179.4	1,107.6	0.0	0.0	211.3	214.5	316.6	354.8	0.0	0.0	6,636.7	6,375.2	217.0	166.7	1,396.4	1,274.3	1,396.4	1,274.3
Missouri	2,374.9	2,121.9	100.8	90.9	0.0	0.0	548.5	548.5	14.0	14.1	0.0	0.0	3,038.2	2,775.4	428.4	326.8	529.2	417.7	529.2	417.7
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	29.9	22.3	70.5	62.9	70.5	62.9
North Dakota	4,323.3	4,326.7	0.0	0.0	0.0	0.0	510.0	510.0	12.6	12.6	0.0	0.0	4,845.9	4,849.3	1.6	1.0	1.6	1.0	1.6	1.0
South Dakota	2,767.2	2,767.2	1.0	1.0	0.0	0.0	1,598.0	1,598.0	5.4	5.4	0.0	0.0	4,371.6	4,371.6	1.9	1.4	2.9	2.4	2.9	2.4
South Atlantic	1,267.2	1,268.0	22,723.4	18,939.2	0.0	0.0	7,139.6	7,145.9	3,957.2	4,186.9	0.0	0.0	35,087.4	31,540.0	5,136.9	3,949.8	27,860.3	22,889.0	27,860.3	22,889.0
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	55.7	125.0	106.4	214.5	145.9	214.5	145.9
District of Columbia	0.0	0.0	18.5	16.5	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	30.5	28.5	128.6	108.9	147.1	125.4	147.1	125.4
Florida	0.0	0.0	7,486.0	5,639.3	0.0	0.0	43.5	43.5	1,141.2	1,153.5	0.0	0.0	8,670.7	6,836.3	2,282.5	1,587.5	9,768.5	7,226.8	9,768.5	7,226.8
Georgia	0.0	0.0	3,875.1	3,281.7	0.0	0.0	1,985.0	1,985.0	1,009.8	1,071.0	0.0	0.0	6,869.9	6,337.7	302.3	266.1	4,177.4	3,547.8	4,177.4	3,547.8
Maryland	190.0	190.0	551.1	408.7	0.0	0.0	590.0	590.0	139.9	139.6	0.0	0.0	1,471.0	1,328.3	1,013.9	937.7	1,565.0	1,346.4	1,565.0	1,346.4
North Carolina	208.0	208.0	6,336.7	5,912.5	0.0	0.0	2,008.7	2,008.7	384.0	436.5	0.0	0.0	8,937.4	8,565.7	455.0	361.2	6,791.7	6,273.7	6,791.7	6,273.7
South Carolina	0.0	0.0	1,491.6	1,143.9	0.0	0.0	1,305.0	1,311.9	450.7	553.7	0.0	0.0	3,247.3	3,009.5	371.1	321.0	1,862.7	1,464.9	1,862.7	1,464.9
Virginia	12.0	12.0	2,874.9	2,497.1	0.0	0.0	866.6	866.0	802.2	803.2	0.0	0.0	4,555.7	4,178.3	426.9	239.2	3,301.8	2,736.3	3,301.8	2,736.3
West Virginia	855.2	856.0	0.0	0.0	0.0	0.0	340.8	340.8	3.2	3.2	0.0	0.0	1,199.2	1,200.0	31.5	21.7	31.5	21.7	31.5	21.7
East South Central	29.1	29.1	1,533.3	1,009.3	0.0	0.0	7,037.8	7,037.8	1,166.4	1,110.9	0.0	0.0	9,766.6	9,187.1	164.5	153.5	1,697.8	1,162.8	1,697.8	1,162.8
Alabama	0.0	0.0	601.1	421.1	0.0	0.0	3,291.8	3,291.8	644.6	619.3	0.0	0.0	4,537.5	4,332.2	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	86.9	68.2	166.7	96.0	166.7	96.0
Mississippi	0.0	0.0	320.6	219.3	0.0	0.0	0.0	0.0	302.4	220.9	0.0	0.0	623.0	440.2	16.0	13.9	336.6	233.2	336.6	233.2
Tennessee	29.1	29.1	531.8	341.1	0.0	0.0	2,608.6	2,608.6	144.9	196.2	0.0	0.0	3,314.4	3,175.0	46.5	56.8	578.3	397.9	578.3	397.9
West South Central	52,380.4	48,417.5	13,390.7	10,402.7	0.0	0.0	3,016.1	3,014.5	1,088.0	1,100.2	0.0	0.0	69,875.2	62,934.9	3,056.6	2,182.5	16,447.3	12,585.2	16,447.3	12,585.2
Arkansas	0.0	0.0	329.7	323.7	0.0	0.0	1,265.2	1,265.8	227.0	227.0	0.0	0.0	1,821.9	1,816.5	243.8	136.7	573.5	460.4	573.5	460.4
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	184.9	161.6	329.4	236.1	329.4	236.1
Oklahoma	12,145.7	11,714.4	47.5	42.5	0.0	0.0	843.7	840.6	76.2	76.2	0.0	0.0	13,113.1	12,673.7	88.9	48.8	136.4	91.3	136.4	91.3
Texas	40,234.7	36,703.1	12,869.0	9,962.0	0.0	0.0	715.2	716.1	362.7	374.9	0.0	0.0	54,181.6	47,756.1	2,539.1	1,835.4	15,408.1	11,797.4	15,408.1	11,797.4
Mountain	16,394.5	15,795.5	11,564.2	9,651.9	474.2	474.2	10,610.2	10,559.7	175.7	175.5	744.3	701.3	39,963.1	37,358.1	5,261.5	4,440.9	16,825.7	14,092.8	17,299.9	14,567.0
Arizona	855.5	617.3	2,763.6	2,602.1	295.6	295.6	2,720.7	2,720.9	27.9	27.9	0.0	0.0	6,663.3	6,263.8	2,359.4	2,051.9	5,123.0	4,654.0	5,418.6	4,949.6
Colorado	5,136.2	5,136.2	1,886.6	1,087.4	0.0	0.0	689.7	691.0	28.7	28.7	0.0	0.0	7,741.2	6,943.3	961.2	798.5	2,847.8	1,885.9	2,847.8	1,885.9
Idaho	968.3	970.4	402.0	242.0	0.0	0.0	2,672.3	2,629.4	84.4	86.3	10.0	10.0	4,137.0	3,938.1	143.6	107.7	545.6	349.7	545.6	349.7
Montana	1,478.9	1,114.1	97.0	17.0	0.0	0.0	2,826.3	2,817.2	4.6	4.6	0.0	0.0	4,406.8	3,952.9	50.0	34.4	147.0	51.4	147.0	51.4
Nevada	150.0	150.0	3,629.8	3,235.0	178.5	178.5	1,051.7	1,051.7	9.8	9.8	655.0	612.0	5,674.8	5,237.0	873.9	713.2	4,503.7	3,948.2	4,682.2	4,126.7
New Mexico	4,409.0	4,410.9	1,065.5	840.7	0.0	0.0	82.7	82.7	7.5	5.4	8.6	8.6	5,573.3	5,348.3	356.7	293.2	1,422.2	1,133.9	1,422.2	1,133.9
Utah	389.7	389.7	1,627.7	1,535.7	0.1	0.1	259.7	259.7	12.8	12.8	70.7	70.7	2,360.7	2,268.7	499.1	428.4	2,126.8	1,964.1	2,126.9	1,964.2
Wyoming	3,006.9	3,006.9	92.0	92.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	3,406.0	3,406.0	17.6	13.6	109.6	105.6	109.6	105.6
Pacific Contiguous	13,483.8	13,588.6	18,375.7	16,175.6	1,005.8	1,005.8	40,048.7	40,006.4	1,743.3	1,779.3	1,886.3	1,886.4	76,543.6	74,442.1	16,383.4	13,890.6	34,759.1	30,066.2	35,764.9	31,072.0
California	6,132.4	6,246.6	17,231.6	15,363.9	1,005.8	1,005.8	10,229.3	10,266.7	1,118.2	1,135.8	1,866.8	1,866.9	37,584.1	35,885.7	15,636.0	13,317.3	32,867.6	28,681.2	33,873.4	29,687.0
Oregon	3,976.5	3,967.1	955.7	778.3	0.0	0.0	8,366.8	8,334.7	294.9	313.3	19.5	19.5	13,613.4	13,412.9	367.8	275.8	1,323.5	1,054.1	1,323.5	1,054.1
Washington	3,374.9	3,374.9	188.4	33.4	0.0	0.0	21,452.6	21,405.0	330.2	330.2	0.0	0.0	25,346.1	25,143.5	379.6	297.5	568.0	330.9	568.0	330.9
Pacific Noncontiguous	292.2	292.2	393.9	327.9	0.0	0.0	506.8	508.0	160.9	160.9	43.0	43.0	1,396.8	1,332.0	826.2	782.1	1,220.1	1,110.0	1,220.1	1,110.0
Alaska	59.0	59.0	0.8	0.8	0.0	0.0	474.4	475.6	7.0	7.0	0.0	0.0	541.2	542.4	17.8	15.1	18.6	15.9	18.6	15.9
Hawaii	233.2	233.2	393.1	327.1	0.0	0.0	32.4	32.4	153.9	153.9	43.0	43.0	855.6	789.6	808.4	767.0	1,201.5	1,094.1	1,201.5	1,094.1
U.S. Total	144,618.5	137,559.5	79,297.9	65,389.0	1,480.0	1,480.0	80,055.2	79,970.5	12,072.4	12,408.4	2,673.6	2,630.7	320,198.3	299,438.1	44,683.4	36,692.6	123,981.3	102,081.6	125,461.3	103,561.6

NM = Not meaningful due to large relative standard error.
Values are preliminary.

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, July 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	
	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022	July 2023	July 2022
New England	14,344.0	14,358.8	1,579.9	1,704.7	682.8	1,587.5	533.9	533.9	0.0	0.0	5,433.8	4,750.5	0.0	0.0	22,574.4	22,935.4
Connecticut	3,919.4	3,932.6	585.7	585.6	555.2	971.2	0.0	0.0	0.0	0.0	2,224.0	1,939.9	0.0	0.0	7,284.3	7,429.3
Maine	1,279.7	1,282.8	181.8	312.0	0.0	92.5	0.0	0.0	0.0	0.0	844.7	844.7	0.0	0.0	2,306.2	2,532.0
Massachusetts	6,171.2	6,169.7	796.2	790.9	102.2	98.2	0.0	0.0	0.0	0.0	1,737.8	1,738.8	0.0	0.0	8,807.4	8,797.6
New Hampshire	1,238.5	1,238.5	3.8	3.8	0.0	400.2	533.9	533.9	0.0	0.0	494.2	94.0	0.0	0.0	2,270.4	2,270.4
Rhode Island	1,735.2	1,735.2	12.4	12.4	25.4	25.4	0.0	0.0	0.0	0.0	7.1	7.1	0.0	0.0	1,780.1	1,780.1
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.0	126.0	0.0	0.0	126.0	126.0
Middle Atlantic	37,256.4	37,040.9	7,138.9	7,981.2	14,537.6	13,680.7	7,374.3	9,678.6	11.6	11.6	5,692.3	4,929.4	114.9	114.9	72,126.0	73,437.3
New Jersey	8,356.5	8,355.5	2,740.5	2,957.0	73.7	74.7	0.0	244.0	11.6	11.6	290.1	96.1	29.0	29.0	11,501.4	11,767.9
New York	9,910.2	9,898.7	2,500.1	3,088.8	9,330.1	9,885.3	0.0	0.0	0.0	0.0	4,072.9	3,535.4	0.0	0.0	25,813.3	26,408.2
Pennsylvania	18,989.7	18,786.7	1,898.3	1,935.4	5,133.8	3,720.7	7,374.3	9,434.6	0.0	0.0	1,329.3	1,297.9	85.9	85.9	34,811.3	35,261.2
East North Central	30,890.3	27,783.5	26,802.7	26,594.6	5,518.4	5,700.9	37,944.3	43,577.3	249.9	250.6	2,256.4	2,374.7	1,050.0	1,084.9	104,712.0	107,366.5
Illinois	5,986.4	4,761.8	10,665.4	10,509.6	1,409.0	1,723.0	6,853.5	8,348.8	0.0	0.0	662.2	774.8	36.5	36.5	25,613.0	26,154.5
Indiana	3,905.0	3,875.0	3,365.8	3,365.8	829.0	754.7	13,410.1	13,847.5	0.0	0.0	95.8	95.8	545.1	619.3	22,150.8	22,558.1
Michigan	6,864.8	6,867.3	3,896.0	3,896.0	2,540.3	2,540.3	5,801.9	8,005.6	47.2	47.2	423.8	443.6	250.0	250.0	19,824.0	22,050.0
Ohio	10,611.2	8,765.2	5,686.6	5,576.4	102.2	99.0	6,607.5	8,097.5	144.3	145.0	494.3	482.4	218.4	179.1	23,864.5	23,344.6
Wisconsin	3,522.9	3,514.2	3,188.9	3,246.8	637.9	583.9	5,271.3	5,277.9	58.4	58.4	580.3	578.1	0.0	0.0	13,259.7	13,259.3
West North Central	7,089.6	7,094.0	11,603.9	11,814.4	3,685.9	3,616.2	31,091.5	32,180.1	39.5	32.0	3,888.6	3,919.0	5.6	5.6	57,404.6	58,661.3
Iowa	1,752.5	1,763.6	1,123.4	1,266.8	757.2	584.2	4,833.2	5,213.3	39.5	32.0	932.4	798.9	0.0	0.0	9,438.2	9,658.8
Kansas	266.0	266.0	2,192.6	2,196.1	1,392.7	1,346.2	4,521.4	4,524.6	0.0	0.0	540.5	591.1	0.0	0.0	8,913.2	8,924.0
Minnesota	2,532.9	2,532.9	2,545.8	2,550.5	449.5	419.0	3,823.7	3,978.6	0.0	0.0	769.3	770.8	0.0	0.0	10,121.2	10,251.8
Missouri	1,905.2	1,898.0	3,286.0	3,344.9	390.9	581.2	9,661.2	10,212.2	0.0	0.0	1,012.4	1,100.3	0.0	0.0	16,255.7	17,136.6
Nebraska	338.0	338.5	1,106.9	1,106.9	517.4	507.4	3,845.6	3,867.0	0.0	0.0	359.1	379.0	0.0	0.0	6,167.0	6,198.8
North Dakota	0.0	0.0	454.0	454.0	106.8	106.8	3,931.4	3,909.4	0.0	0.0	60.0	64.0	5.6	5.6	4,557.8	4,539.8
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	64,147.8	31,826.1	32,691.9	14,215.8	10,619.9	36,034.0	43,609.7	83.8	142.8	6,231.8	5,524.6	135.0	135.0	154,383.3	156,871.7
Delaware	1,504.0	1,504.0	314.0	316.4	738.8	738.8	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,215.9	3,218.3
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	34,208.8	8,834.0	8,831.6	5,170.5	5,552.9	4,615.0	4,776.0	0.0	59.0	1,662.2	1,660.2	0.0	0.0	55,992.1	55,088.5
Georgia	8,073.2	8,073.2	7,143.5	7,800.1	850.1	850.1	5,780.0	7,524.0	83.8	83.8	1,601.6	946.0	0.0	0.0	23,532.2	25,277.2
Maryland	2,766.0	2,726.0	1,675.7	1,758.9	1,210.1	1,209.5	1,758.0	1,758.0	0.0	0.0	1,350.5	1,314.3	0.0	0.0	8,760.3	8,766.7
North Carolina	5,579.0	5,554.0	6,002.5	6,002.5	4,665.7	1.0	4,594.0	9,258.7	0.0	0.0	501.4	502.0	0.0	0.0	21,342.6	21,318.2
South Carolina	3,252.0	3,203.0	2,497.0	2,627.0	883.0	780.0	4,789.0	4,789.0	0.0	0.0	244.6	218.6	0.0	0.0	11,665.6	11,617.6
Virginia	8,972.2	8,878.8	4,249.3	4,245.3	582.1	1,372.1	1,530.0	2,536.0	0.0	0.0	746.4	758.4	0.0	0.0	16,080.0	17,790.6
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	22,428.4	21,865.4	12,325.0	12,680.5	4,475.8	4,393.7	21,171.5	21,415.3	0.0	0.0	533.9	106.7	3.8	3.8	60,938.4	60,465.4
Alabama	9,795.3	9,795.3	2,644.8	2,572.8	1,852.7	1,982.6	4,728.0	4,728.0	0.0	0.0	42.6	42.6	3.8	3.8	19,067.2	19,125.1
Kentucky	1,763.0	1,763.0	4,905.6	4,905.6	483.0	260.0	9,180.0	9,403.0	0.0	0.0	11.9	11.9	0.0	0.0	16,343.5	16,343.5
Mississippi	8,415.0	7,852.0	1,369.3	1,369.6	2,006.6	2,084.9	1,444.0	1,444.0	0.0	0.0	9.0	9.0	0.0	0.0	13,243.9	12,759.5
Tennessee	2,455.1	2,455.1	3,405.3	3,832.5	133.5	66.2	5,819.5	5,840.3	0.0	0.0	470.4	43.2	0.0	0.0	12,283.8	12,237.3
West South Central	66,042.4	63,878.5	16,958.4	16,704.0	29,710.1	30,024.3	27,078.9	28,631.0	882.1	879.0	701.4	304.4	213.4	333.3	141,586.7	140,754.5
Arkansas	4,613.3	4,628.0	702.8	702.8	824.0	824.0	5,108.7	5,128.1	0.0	0.0	9.0	9.0	0.0	0.0	11,257.8	11,291.9
Louisiana	9,695.8	9,630.2	2,972.9	2,985.7	5,746.2	5,959.4	2,074.1	2,114.3	818.3	815.2	49.7	49.7	189.6	159.5	21,546.6	21,714.0
Oklahoma	8,955.9	7,339.9	1,643.0	1,636.3	5,881.1	5,887.1	3,244.5	3,247.0	0.0	0.0	66.4	66.4	0.0	0.0	19,790.9	18,176.7
Texas	42,777.4	42,280.4	11,639.7	11,379.2	17,258.8	17,353.8	16,651.6	18,141.6	63.8	63.8	576.3	179.3	23.8	173.8	88,991.4	89,571.9
Mountain	23,060.9	22,661.8	9,642.9	9,081.8	3,703.6	4,008.7	21,307.9	22,221.9	52.0	52.0	510.0	469.7	7.8	7.8	58,285.1	58,503.7
Arizona	10,193.6	9,992.9	3,084.8	2,899.0	1,097.6	1,278.6	2,943.0	2,943.0	0.0	0.0	268.5	87.5	0.0	0.0	17,587.5	17,201.0
Colorado	3,193.5	3,266.5	2,701.8	2,538.0	646.0	777.0	3,804.0	4,206.0	0.0	0.0	150.5	150.5	3.0	3.0	10,498.8	10,941.0
Idaho	562.7	549.3	627.7	556.9	16.7	11.7	0.0	5.0	0.0	0.0	5.4	5.4	0.0	0.0	1,212.5	1,128.3
Montana	0.0	0.0	315.8	315.8	72.2	72.2	1,630.5	1,630.5	52.0	52.0	0.0	0.0	1.5	1.5	2,072.0	2,072.0
Nevada	5,703.0	5,445.0	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	7,821.6
New Mexico	1,484.1	1,484.1	945.3	804.6	832.6	839.7	1,540.0	2,047.0	0.0	0.0	46.0	186.7	0.0	0.0	4,848.0	5,362.1
Utah	1,830.0	1,830.0	534.6	534.6	338.1	330.9	4,581.0	4,581.0	0.0	0.0	27.8	27.8	0.0	0.0	7,311.5	7,304.3
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	26,526.4	12,276.9	12,172.7	5,495.2	5,494.4	727.0	727.0	0.0	20.0	439.0	428.0	194.6	198.9	45,873.5	45,567.4
California	20,719.0	20,504.6	11,433.7	11,329.5	5,239.4	5,233.6	57.0	57.0	0.0	20.0	415.2	406.2	194.6	198.9	38,058.9	37,749.8
Oregon	3,395.2	3,395.2	124.0	124.0	229.2	229.2	0.0	0.0	0.0	0.0	6.6	6.6	0.0	0.0	3,755.0	3,755.0
Washington	2,626.6	2,626.6	719.2	719.2	26.6	31.6	670.0	670.0	0.0	0.0	17.2	15.2	0.0	0.0	4,059.6	4,062.6
Pacific Noncontiguous	374.6	374.6	721.1	721.1	174.4	177.4	167.9	348.9	0.0	0.0	2,723.8	2,722.8	0.0	0.0	4,161.8	4,344.8
Alaska	374.6	374.6	721.1	721.1	174.4	177.4	167.9	168.9	0.0	0.0	743.9	742.9	0.0	0.0	2,181.9	2,184.9
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.0	0.0	0.0	1,979.9	1,979.9	0.0	0.0	1,979.9	2,159.9
U.S. Total	294,084.2	285,731.7	130,875.8	132,146.9	82,199.6	79,303.7	183,431.2	202,923.7	1,318.9	1,388.0	28,411.0	25,529.8	1,725.1	1,884.2	722,045.8	728,908.0

NM = Not meaningful due to large relative standard error.
Values are preliminary.

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

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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 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	WND	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	WND	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	Anhinga 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	WND	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	Titlow Garden LLC	IPP	Titlow 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	El 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	WND	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	65430	1	74.5	Solar Photovoltaic	SUN	PV
2023	2	64989	Great Pathfinder Wind	IPP	Great Pathfinder Wind	IA	65715	GPFWF	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	Invenergy 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	Watlington Solar	VA	65221	WSPV	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	73.6	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	50123	Leeward Asset Management, LLC	IPP	Chaparral Springs	CA	64864	CHAPS	102.0	Solar Photovoltaic	SUN	PV
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 El Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	BAT1	5.1	Batteries	MWH	BA
2023	3	13683	North Carolina El Member Corp	Electric Utility	Arba Solar Energy Storage	NC	64510	SOL1	5.0	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina El Member Corp	Electric Utility	Hamlet Solar Energy Storage	NC	64512	BAT1	0.5	Batteries	MWH	BA
2023	3	13683	North Carolina El Member Corp	Electric Utility	Hamlet Solar Energy Storage	NC	64512	SOL1	0.5	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina El Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	BAT1	2.5	Batteries	MWH	BA
2023	3	13683	North Carolina El Member Corp	Electric Utility	Rose Acre Solar Energy Storage	NC	64511	SOL1	2.0	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina El Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	BAT1	0.6	Batteries	MWH	BA
2023	3	13683	North Carolina El Member Corp	Electric Utility	South River H4 Solar Energy Storage	NC	64509	SOL1	0.5	Solar Photovoltaic	SUN	PV
2023	3	13683	North Carolina El Member Corp	Electric Utility	Wake RJ3 Solar Energy Storage	NC	64513	BAT1	0.6	Batteries	MWH	BA
2023	3	13683	North Carolina El 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	61365	FBES	40.0	Batteries	MWH	BA
2023	3	65148	Seven Cowboy Wind Project, LLC	IPP	Seven Cowboy Wind Project, LLC	OK	65971	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

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	4	803	Arizona Public Service Co	Electric Utility	Paloma Solar Hybrid	AZ	57562	PA17M	17.0	Batteries	MWH	BA
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 Power Plant	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	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN3	157.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	4	49893	Invenergy Services LLC	IPP	Invenergy 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	OEC1	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	Invenergy 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	SFBES	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	Schuylkill Haven PA BTM	PA	66451	PB1	2.7	Petroleum Liquids	DFO	IC
2023	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Schuylkill 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	62562	BA	50.0	Batteries	MWH	BA
2023	6	61944	MN8 Energy LLC	IPP	NY8 - Darby Solar	NY	65839	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	66480	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	Gaucho Solar	PA	65214	GCHOS	20.0	Solar Photovoltaic	SUN	PV
2023	6	64349	Yellowbud Solar LLC	IPP	Yellowbud Solar, LLC	OH	64832	YELLO	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	MS5B	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	ROSEB	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	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	66388	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	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn S4	CA	65677	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	USWOF	1.0	Solar Photovoltaic	SUN	PV
2023	7	65173	United States Solar Corporation	IPP	USS Wonder Solar LLC	MN	65993	USWON	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

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 Code
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 Muncipal Power	NE	2297	1	1.1	Petroleum Liquids	DFO	IC
2023	1	13698	North Central Public Pwr Dist	Electric Utility	Plainview Muncipal Power	NE	2297	3	0.9	Petroleum Liquids	DFO	IC
2023	1	13698	North Central Public Pwr Dist	Electric Utility	Plainview Muncipal Power	NE	2297	4	1.2	Petroleum Liquids	DFO	IC
2023	1	13698	North Central Public Pwr Dist	Electric Utility	Plainview Muncipal 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	645	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	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

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	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

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	8	61222	174 Power Global Corp.	IPP	Gerdau	TX	63797	GER01	80.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	80.0
2023	8	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	8	65576	AC Power 14, LLC	IPP	NY Lancaster Shisler 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	8	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	8	65718	AFTW Holdings, LLC	IPP	Wheeler Ridge	CA	66713	WHRPV	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2023	8	57416	Acciona Energy USA Global, LLC	IPP	Cunningham Storage	TX	65410	SPUT	190.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	190.0
2023	8	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	8	59050	Algonquin Power Co	IPP	Sandy Ridge Wind 2, LLC	PA	65741	SRW2	87.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	87.6
2023	8	59573	Amazon	IPP	Amazon Bakersfield 1 Solar Project	CA	65562	ABFSP	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2023	8	59573	Amazon	IPP	Amazon Bakersfield 1 Solar Project	CA	65562	ABSBA	1.6	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.6
2023	8	65395	Ameresco HCE Solar LLC	IPP	Ameresco HCE Solar LLC	CO	66271	HCEBA	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2023	8	65395	Ameresco HCE Solar LLC	IPP	Ameresco HCE Solar LLC	CO	66271	HCEPV	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB1	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB2	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB3	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Wadsworth IPS RTO BTM	OH	66453	PB4	2.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.7
2023	8	63803	Apex Solar LLC	IPP	Apex Solar	MT	64189	RSNAK	80.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	80.0
2023	8	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	8	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	2	75.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	75.0
2023	8	64516	Azimuth 180 Solar Electric, LLC	IPP	Grinnell College	IA	65164	GRIN	3.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.9
2023	8	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	8	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	8	65412	BPL Files Solar LLC	IPP	BPL Files Solar	TX	66324	FILES	157.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	157.5
2023	8	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	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 1	CA	66533	BCE11	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 1	CA	66533	BCE12	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 2	CA	66532	BCE21	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	8	65534	Bright Canyon Energy	IPP	BCE Los Alamitos 2	CA	66532	BCE22	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2023	8	63883	Broad Reach Power	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	25.0
2023	8	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	8	63466	Conductive Power	IPP	Ocotillo Wells	CA	65820	OWS	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2023	8	4226	Consolidated Edison Co-NY Inc	Electric Utility	Fox Hills Battery Station	NY	65035	ESSFH	7.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	7.5
2023	8	65719	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	8	58970	Ecoplexus, Inc	IPP	CSP Solano	CA	65181	CSLNO	5.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.1
2023	8	58970	Ecoplexus, Inc	IPP	Camp San Luis Obispo	CA	63870	CPSLO	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2023	8	58970	Ecoplexus, Inc	IPP	Kern Valley SP	CA	63875	KRNVL	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	8	58135	Ecos Energy LLC	IPP	Gray Solar	VT	66873	GRAY	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2023	8	62856	Forefront Power, LLC	IPP	CA - Ventura Co CCD - Moorpark College	CA	65365	17024	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2023	8	61194	Generate Capital	IPP	Bullitt Farm Solar	NY	66490	10998	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	8	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
2023	8	65451	Grizzly Ridge Solar LLC	Commercial	Grizzly Ridge Solar	TX	66410	375	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2023	8	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	8	24205	HF Sinclair Parco Refining LLC	Industrial	Sinclair Oil Refinery	WY	54374	NO7	2.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.2
2023	8	63109	Hales Mills Solar, LLC	IPP	Hales Mills Solar, LLC	NY	63339	09751	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2023	8	65491	Hayhurst New Mexico Solar	IPP	Hayhurst New Mexico Solar	NM	66412	HHNM	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2023	8	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	H0001	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2023	8	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	HESS1	52.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	52.0
2023	8	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	326.6
2023	8	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	8	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	8	65665	KDC Solar CV Animal Control LLC	IPP	KDC Solar CV Animal Control LLC	MD	66655	CVAC	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	8	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	(V) Under construction, more than 50 percent complete	2.0
2023	8	65234	Kapolei Energy Storage I, LC	IPP	Kapolei Energy Storage	HI	66067	KES1	185.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	185.0
2023	8	65086	Landrace Holdings, LLC	IPP	Landrace Holdings, LLC	SC	65955	LANDR	55.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	55.0
2023	8	50123	Leeward Asset Management, LLC	IPP	Big Plain Solar, LLC	OH	64635	GEN01	196.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	196.0
2023	8	62842	Lightsource 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	8	63658	Long Beach Trigen, LLC	IPP	Toyota Long Beach Trigen	CA	64005	MMR-1	2.2	Other Waste Biomass	OBG	FC	(TS) Construction complete, but not yet in commercial operation	2.8
2023	8	61944	MN8 Energy LLC	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS1	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	8	61944	MN8 Energy LLC	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS2	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2023	8	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	8	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	8	61944	MN8 Energy LLC	IPP	RIC - Hanover	NY	66272	GEN1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	8	61944	MN8 Energy LLC	IPP	Summit - Lysander	NY	66274	GEN1	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2023	8	61944	MN8 Energy LLC	IPP	Summit - Scriba	NY	66322	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	8	61944	MN8 Energy LLC	IPP	Toms River CSS	NJ	66751	GEN1	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2023	8	61944	MN8 Energy LLC	IPP	WMATA - S. Ave. Carport (East)	MD	65961	GEN1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2023	8	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEC Simple Cycle Gas Turbine	MA	63559	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	65.0
2023	8	65823	Myrtle Solar, LLC	IPP	Myrtle Solar, LLC	TX	66910	MYR	313.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	313.0
2023	8	65399	NMRD Data Center III, LLC	IPP	NMRD Data Center III, LLC	NM	66287	NMRD3	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2023	8	65468	NY USLE Oswego SR104 LLC	IPP	Oswego	NY	66387	NECA	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	8	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	8	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	8	65339	North Central Valley Energy Storage, LLC	IPP	North Central Valley	CA	66208	NCV	132.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	132.0
2023	8	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	8	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	8	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	8	14232	Otter Tail Power Co	Electric Utility	Hoot Lake Solar	MN	65066	1	49.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.9
2023	8	65154	Phelan Solar LLC	IPP	Sheep Creek Community Solar Farm	CA	65970	1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2023	8	64610	Powells Creek Farm Solar, LLC	IPP	Powells Creek Solar - Hybrid	VA	65305	SOLAR	70.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	70.0
2023	8	56215	RWE Renewables Americas, LLC	IPP	Fifth Standard Solar PV, LLC (Hybrid)	CA	64197	FTHSB	117.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	117.0
2023	8	56215	RWE Renewables Americas, LLC	IPP	Fifth Standard Solar PV, LLC (Hybrid)	CA	64197	FTHSS	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	8	64179	Ranchland Wind Storage, LLC	IPP	Ranchland Wind Storage	TX	64545	BA	73.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	73.0
2023	8	64135	Resurgence Solar	IPP	Resurgence Solar	CA	64489	GEN1	90.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	90.0
2023	8	64135	Resurgence Solar	IPP	Resurgence Solar	CA	64489	GEN2	75.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	75.0
2023	8	65647	Resurgence Solar II	IPP	Resurgence Solar II	CA	66620	GEN1	48.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	48.0
2023	8	65647	Resurgence Solar II	IPP	Resurgence Solar II	CA	66620	GEN2	40.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	40.0
2023	8	65447	Royal Solar Partners, LLC	IPP	Royal Solar Partners	NY	66361	ROSP1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	8	65446	Ruler Solar Partners, LLC	IPP	Ruler Solar Partners	NY	66360	RUSP1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9

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	8	65087	SMS DC CS01B, LLC	IPP	Gallaudet Uni Community Solar	DC	65896	GUCS1	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2023	8	64916	SR Bell Buckle, LLC	IPP	SR Bell Buckle	TN	65630	SRBEL	35.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	35.0
2023	8	65058	SV CSG Baileyville 1 LLC	IPP	SV CSG Baileyville 1 LLC	IL	65796	BAIL1	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	8	65077	SV CSG Baileyville 2 LLC	IPP	SV CSG Baileyville 2 LLC	IL	65890	BAIL2	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	8	65057	SV CSG Barrass Farms II LLC	IPP	SV CSG Barrass Farms II LL	IL	65803	BARAS	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	8	65050	SV CSG South Dekalb 1 LLC	IPP	SV CSG South Dekalb 1 LLC	IL	65799	DKLB1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	8	65051	SV CSG South Dekalb 2 LLC	IPP	SV CSG South Dekalb 2 LLC	IL	65800	DKLB2	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2023	8	63640	Safari Energy, LLC	IPP	Reidsville Renewables, Inc.	GA	65995	20052	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	8	65727	Saint Energy Storage II LLC	IPP	Saint Energy Storage II LLC	AZ	66716	SB123	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Boulevard Energy Storage	CA	66279	1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Clairemont Energy Storage	CA	66266	1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Elliott Energy Storage	CA	66278	1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Melrose BESS	CA	66281	1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Melrose BESS	CA	66281	2	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Pala Gomez Creek BESS	CA	66280	1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	8	16609	San Diego Gas & Electric Co	Electric Utility	Paradise Energy Storage	CA	66265	1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	8	64994	SolRiver Capital LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2023	8	64994	SolRiver Capital LLC	IPP	Shorthorn Holdings	SC	60028	PV1	8.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	8.9
2023	8	64801	Storey Energy Center, LLC	IPP	Storey Solar and Storage	AZ	65956	STOBA	88.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	88.0
2023	8	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	8	65480	VC Renewables	IPP	Caribou	ME	66402	CRBOU	4.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.1
2023	8	20323	Wellhead Services, Inc	IPP	Stanton Battery Energy Storage	CA	66423	BESS1	68.8	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	68.8
2023	8	62048	Westlands Almond LLC	IPP	Almond	CA	62546	ALMND	19.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	19.9
2023	8	20856	Wisconsin Power & Light Co	Electric Utility	Boaz Microgrid Battery	WI	65633	BESS1	0.3	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.6
2023	8	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	9	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	9	61012	AES Distributed Energy	IPP	AES West Oahu Solar Hybrid	HI	64656	UHBES	12.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	12.5
2023	9	61012	AES Distributed Energy	IPP	AES West Oahu Solar Hybrid	HI	64656	UHWO	12.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	12.5
2023	9	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	9	64532	ASA Clayton NY Solar I LLC	IPP	ASA Clayton NY Solar I LLC	NY	65161	CLA1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2023	9	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	9	64526	ASA DeKalb NY Solar II LLC	IPP	ASA DeKalb NY Solar II LLC	NY	65155	DEK2	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2023	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	64548	Apple Grove Solar, LLC	IPP	Apple Grove Solar, LLC	VA	65224	ENX15	18.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	18.6
2023	9	61711	Ashley Solar (SC)	IPP	Ashley Solar (SC)	SC	62179	21	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	9	64804	Ball Hill Wind Energy, LLC	IPP	Ball Hill Wind Energy, LLC	NY	65495	BALLH	107.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	107.5
2023	9	64844	Bell Ridge Solar, LLC	IPP	Bell Ridge Solar	FL	65519	BRS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2023	9	61717	Birch Solar	IPP	Birch Solar	SC	62185	27	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	9	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	9	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	9	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	9	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	9	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	9	63526	Chestnut Westside, LLC	IPP	Chestnut	CA	63849	CHNUT	150.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.6
2023	9	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	9	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	9	65311	Clearwater Wind East, LLC	IPP	Clearwater Wind East	MT	66183	CWE	208.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	208.2
2023	9	65312	Clearwater Wind II, LLC	IPP	Clearwater Wind II	MT	66184	CW2	102.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	102.8
2023	9	62161	Cubico USA, LLC	IPP	Delta's Edge Solar	MS	66759	DELTA	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2023	9	5248	Dominion Energy Inc.	Electric Utility	Dry Bridge Storage	VA	65044	DBES	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2023	9	6455	Duke Energy Florida, LLC	Electric Utility	John Hopkins Middle School Microgrid	FL	64752	ES1	2.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.5
2023	9	6455	Duke Energy Florida, LLC	Electric Utility	John Hopkins Middle School Microgrid	FL	64752	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	9	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	9	65011	El Sauz Ranch Wind, LLC	IPP	El Sauz Ranch Wind, LLC	TX	65760	ELSAU	301.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	301.0
2023	9	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	9	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	9	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	9	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	9	65556	EnerSmart Chula Vista Sub Station	IPP	EnerSmart Chula Vista Sub Station	CA	66505	CV150	3.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.0
2023	9	65556	EnerSmart Chula Vista Sub Station	IPP	EnerSmart Chula Vista Sub Station	CA	66505	CV151	3.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.0
2023	9	64520	Energix Aditya, LLC	IPP	Energix Aditya, LLC	VA	65151	ENX13	11.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	11.5
2023	9	65807	Energy 49, LLC	IPP	Houston Solar	AK	66887	HOU	6.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	6.0
2023	9	63081	Exus North America Management Partners LLC	IPP	Bearkat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	162.1
2023	9	6395	Flathead Electric Coop Inc	Electric Utility	Flathead Landfill to Gas Energy Facility	MT	64505	LFGE2	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2023	9	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	9	62856	Forefront Power, LLC	IPP	CA - Madera USD - Madera South HS	CA	65615	19009	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2023	9	62856	Forefront Power, LLC	IPP	CA-DGS RFP-Salinas Valley State Prison	CA	65525	14068	3.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2023	9	62856	Forefront Power, LLC	IPP	Grossmont-Cuyamaca-Cuyamaca Col. Solar &	CA	66023	18009	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2023	9	62856	Forefront Power, LLC	IPP	Grossmont-Cuyamaca-Cuyamaca Col. Solar &	CA	66023	19043	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	9	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	9	60025	Greenbacker Renewable Energy Corporation	IPP	Fall River Solar, LLC	SD	64968	452	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2023	9	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
2023	9	60025	Greenbacker Renewable Energy Corporation	IPP	IGS VGT	NV	66098	573	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	9	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	9	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	9	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	9	64972	IP Oberon II, LLC	IPP	Oberon II Solar Project	CA	65735	OBIIB	125.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	140.0
2023	9	64972	IP Oberon II, LLC	IPP	Oberon II Solar Project	CA	65735	OBIIP	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	298.2
2023	9	64971	IP Oberon LLC	IPP	Oberon Solar Project	CA	65734	OBIBS	125.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	140.0
2023	9	64971	IP Oberon LLC	IPP	Oberon Solar Project	CA	65734	OBIPV	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	298.2
2023	9	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2023	9	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	9	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	9	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Middletown Solar Park	IN	66366	MIDDL	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2023	9	49893	Invenergy Services LLC	IPP	Delilah Solar Energy II LLC	TX	63884	GEN1	310.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	310.0
2023	9	49893	Invenergy Services LLC	IPP	Delilah Solar Energy LLC	TX	63194	GEN1	300.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	300.0
2023	9	49893	Invenergy 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
2023	9	49893	Invenergy Services LLC	IPP	Samson Solar Energy II LLC	TX	63882	GEN1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	9	49805	Kennecott Utah Copper	Industrial	Copperton Solar Plant No. 1	UT	64427	CSP1	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	9	65785	Luminace Sunbeam Development Holdings, LLC	IPP	ME Novel Lighthouse - Huggard Ave Solar	ME	66833	HUG	2.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.5
2023	9	64442	MN CSG 2019-17 LLC	IPP	MN CSG 2019-17 LLC	MN	65004	MOORE	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	9	64510	MN CSG 2019-53 LLC	IPP	Eikmeier CSG	MN	65100	EIKMR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	9	65590	MN CSG 2019-54 DE LLC	IPP	MN CSG 2019-54 LLC	MN	66548	RETTE	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	9	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	9	61944	MN8 Energy LLC	IPP	NY8 - ELP Stillwater Solar	NY	65841	GEN1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	9	61944	MN8 Energy LLC	IPP	Summit - Cicero	NY	66273	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	9	61944	MN8 Energy LLC	IPP	WMATA - Anacostia	DC	65958	GEN1	1.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.1
2023	9	61944	MN8 Energy LLC	IPP	WMATA - Naylor Rd. Metro	MD	65960	GEN1	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2023	9	62915	Madison Energy Holdings LLC	IPP	Bryan Floyd	GA	66936	FLOYD	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2023	9	65038	Magdaline Solar, LLC	IPP	Magdaline Solar, LLC	SC	65782	MAG	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	9	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	9	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	9	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	9	56990	NJR Clean Energy Ventures Corporation	IPP	Howard Lane Solar	RI	65386	HOWRD	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2023	9	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	9	65574	NYSolar03 LLC	IPP	NY Geneseo 3240 W Lake Rd Solar	NY	66526	19372	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	9	63502	Partin Solar, LLC	IPP	Partin Solar	NC	63827	95	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2023	9	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	9	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC1	394.4	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	459.0
2023	9	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC2	264.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	273.7
2023	9	63359	REA Investments, LLC	IPP	Novel Froehle Solar LLC	MN	64728	FROLE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	9	65791	Robin Hollow Solar, LLC	IPP	Robin Hollow Solar	RI	66855	RSH40	40.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.7
2023	9	64740	Santa Paula Energy Storage, LLC	IPP	Santa Paula Energy Storage LLC	CA	65397	SP1	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2023	9	65614	Shady Oaks Wind 2, LLC	IPP	Shady Oaks Wind 2	IL	66568	SHO02	108.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	108.3
2023	9	65474	Signal Street Operating, LLC	IPP	Alta Sea	CA	66395	PV1	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2023	9	61677	Sol Systems	IPP	Prairie Creek Solar	IL	66826	PC923	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2023	9	65766	Solar DG NJ BEMS East, LLC	IPP	BEMS East Solar	NJ	66802	BEMSE	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2023	9	65767	Solar DG NJ BEMS West, LLC	IPP	BEMS West Solar	NJ	66803	BEMSW	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2023	9	65811	Solops 371 Hoes LLC	IPP	Solops 371 Hoes LLC	NJ	66889	CANOP	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	9	65811	Solops 371 Hoes LLC	IPP	Solops 371 Hoes LLC	NJ	66889	ROOF	0.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.3
2023	9	17609	Southern California Edison Co	Electric Utility	Separator (Etiwanda) BESS	CA	65456	SEPAR	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2023	9	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
2023	9	61668	Strauss Wind LLC	IPP	Strauss Wind Farm	CA	62113	ST-CA	95.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	95.5
2023	9	64992	Sunflower Energy Center, LLC	IPP	Sunflower Energy Center, LLC	KS	65738	1111	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2023	9	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	9	64366	Terra-Gen Operating Co-Hybrid	IPP	Edwards Sanborn E5	CA	65676	BESS	47.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	47.0
2023	9	19664	University of Washington	Commercial	University of Washington Power Plant	WA	54809	TG3	3.0	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	3.0
2023	9	61864	Washington Solar II (SC)	IPP	Washington Solar II (SC)	SC	62344	88	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2023	9	65555	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
2023	9	63525	Westlands Solar Blue (OZ) Owner, LLC	IPP	Solar Blue	CA	63848	BESS1	225.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	225.0
2023	9	63525	Westlands Solar Blue (OZ) Owner, LLC	IPP	Solar Blue	CA	63848	SBLUE	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2023	9	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	10	61012	AES Distributed Energy	IPP	AES Mountain View Solar	HI	66002	MVSBA	7.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	7.0
2023	10	61012	AES Distributed Energy	IPP	AES Mountain View Solar	HI	66002	MVSPV	7.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.0
2023	10	57416	Acciona Energy USA Global, LLC	IPP	High Point Solar LLC	IL	63838	HPS	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2023	10	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GEN2	0.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.6
2023	10	65118	AlphaStruxure Service Co LP	Commercial	Brookville Smart Bus Depot Microgrid	MD	65945	GEN3	0.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.6
2023	10	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	10	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	10	65207	Arctaris Saddleback Solar, LLC	IPP	Arctaris Saddleback Solar	ME	66043	63233	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2023	10	65836	Big Wolf Solar LLC	IPP	Big Wolf Solar	MN	66917	MDLK	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	10	64307	Castle Solar, LLC	IPP	Castle Solar, LLC	UT	64740	CS	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2023	10	65564	Catalyze Dallas 7750 Dynasty Drive Microgrid, LLC	IPP	TX Dallas 7750 Dynasty Drive	TX	66516	19500	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2023	10	65514	Catalyze 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	10	65514	Catalyze 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	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	64364	Daggett Solar Power 2 LLC	IPP	Daggett 2	CA	64851	DAGGB	131.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	131.0
2023	10	64364	Daggett Solar Power 2 LLC	IPP	Daggett 2	CA	64851	DAGGP	182.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	182.0
2023	10	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	10	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	10	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	10	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	10	62091	Derby Fuel Cell 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	10	5248	Dominion Energy Inc.	Electric Utility	Otter Creek Solar	VA	63909	OTTER	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2023	10	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	10	65660	Enchanted Rock	IPP	Enchanted Rock Lodi	CA	66638	LODI	48.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	48.0
2023	10	62856	Forefront Power, LLC	IPP	CA-DGS-California Correctional Inst	CA	65105	15111	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2023	10	61122	Great River Hydro, LLC	IPP	S C Moore	NH	2351	GEN5	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2023	10	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	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	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	10	65076	HEN Infrastructure, L.L.C.	IPP	Mineral Wells East BESS	TX	66788	MNWLE	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.9
2023	10	65076	HEN Infrastructure, L.L.C.	IPP	Val Verde	TX	65837	VALVR	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2023	10	65783	Hayhurst Texas Solar	IPP	Hayhurst Texas Solar	TX	66880	HHTX	24.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	24.8
2023	10	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	10	64924	IP Lumina, LLC	IPP	Lumina Solar Project	TX	65645	LUMIN	320.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	326.6
2023	10	9234	Indiana Municipal Power Agency	Electric Utility	IMPA 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	IMPA 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	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

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	65006	Linkville Solar, LLC	IPP	Linkville Solar (CSG)	OR	65749	LS22	2.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2023	10	65551	Magruder Solar, LLC	IPP	Magruder 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	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN19	1.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
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	56990	NJR Clean Energy Ventures Corporation	IPP	Old Bridge Global Landfill	NJ	66845	OBGLD	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2023	10	65770	NY USLE Copenhagen CR194 LLC	IPP	Copenhagen Solar	NY	66817	COPE	4.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.3
2023	10	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	10	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	10	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	10	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	10	62646	Painter Energy Storage, LLC	IPP	Painter Energy Storage	CA	62729	PAIN1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2023	10	14856	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	10	63359	REA Investments, LLC	IPP	Novel Brock Solar LLC	MN	65024	BROCK	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	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	63359	REA Investments, LLC	IPP	Novel Swenson Solar LLC	MN	65025	SWNSN	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	10	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	10	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	10	65779	SEPV Cuyama, LLC	IPP	SEPV Cuyama Hybrid	CA	66807	CUYA1	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	10	65779	SEPV Cuyama, LLC	IPP	SEPV Cuyama Hybrid	CA	66807	CUYA2	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2023	10	65842	SMT Bay City LLC	IPP	SMT Bay City LLC	TX	66930	SMTBC	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	10	65560	SOL ME Augusta 13 York Farm, LLC	IPP	ME Augusta 13 York Farm Rd Solar	ME	66512	18196	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	10	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	1.0
2023	10	64994	SolRiver Capital LLC	IPP	Auburn Solar LLC (CSG)	OR	66378	PV1	2.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.9
2023	10	17609	Southern California Edison Co	Electric Utility	Cathode (Hinson) BESS	CA	65457	CATH1	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2023	10	17609	Southern California Edison Co	Electric Utility	Cathode (Hinson) BESS	CA	65457	CATH2	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2023	10	65553	Sweetland Wind Farm, LLC	IPP	Sweetland Wind Farm, LLC	SD	66496	SLW	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
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	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	B07	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2023	10	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	C01	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2023	10	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
2023	10	64281	Thigpen Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	10	59598	Tooele Army Depot	IPP	Tooele Army Depot(CSG)	UT	59817	PV2	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	10	65173	United States Solar Corporation	IPP	USS Giveback Solar LLC	CO	65990	USSGB	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	10	54736	VESI Pomona Energy Storage, Inc.	IPP	VESI Pomona	CA	50300	BESS2	20.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	20.0
2023	10	20856	Wisconsin Power & Light Co	Electric Utility	Crawfish River	WI	65012	PV1	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2023	10	20856	Wisconsin Power & Light Co	Electric Utility	Onion River	WI	65008	PV1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	11	63118	224WB 8me LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	110.0
2023	11	195	Alabama Power Co	Electric Utility	Barry	AL	3	A3C1	385.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	464.0
2023	11	195	Alabama Power Co	Electric Utility	Barry	AL	3	A3ST	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	65452	BWC Unity Pond LLC	IPP	BWC Unity Pond LLC	ME	66370	BENTN	4.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.5
2023	11	65272	Blue Elk III Solar, LLC	IPP	Blue Elk III Solar, LLC	MI	66103	BEIII	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	11	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	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	64542	Caden Energix Endless Caverns, LLC	IPP	Caden Energix Endless Caverns, LLC	VA	65219	ENX16	31.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	31.4
2023	11	65513	Catalyze 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	11	65559	Catalyze Riverside 2356 Fleetwood Drive Microgrid LLC	IPP	CA Riverside 2356 Fleetwood Dr.	CA	66511	18262	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	11	65559	Catalyze Riverside 2356 Fleetwood Drive Microgrid LLC	IPP	CA Riverside 2356 Fleetwood Dr.	CA	66511	B8262	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	11	56769	Consolidated Edison Development Inc.	IPP	Timberland Solar	GA	65892	TSPV	140.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	140.0
2023	11	65621	Crane Garden LLC	IPP	Crane Garden	MN	66573	MNC04	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	11	34359	Curators of the University of Missouri	Commercial	MU Combined Heat and Power Plant	MO	50969	GEN10	8.0	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	9.0
2023	11	65793	DG Empire Lumen 2023, LLC	IPP	NY Sorrell Hill II CSG	NY	66856	NGSH2	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2023	11	65677	Dimension Energy LLC	IPP	Kings CSG 3 LLC	CA	66676	KING3	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	11	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
2023	11	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
2023	11	65683	Dublin Street LLC	IPP	Dublin Street LLC	ME	66664	DBLNS	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2023	11	62856	Forefront Power, LLC	IPP	CA-DGS RFP-Pleasant Valley State Prison	CA	65526	15112	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	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	GOLET	60.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	60.0
2023	11	60025	Greenbacker Renewable Energy Corporation	IPP	Hecate Energy Albany 2 LLC	NY	66126	292	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	11	60025	Greenbacker Renewable Energy Corporation	IPP	Hecate Energy Albany County 1	NY	64077	ALBNY	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
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	65076	HEN Infrastructure, L.L.C.	IPP	Diboll BESS	TX	66794	DIBOL	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.9
2023	11	65076	HEN Infrastructure, L.L.C.	IPP	Garden City East BESS	TX	66791	GRDNE	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.9
2023	11	65076	HEN Infrastructure, L.L.C.	IPP	Hamilton BESS	TX	66782	HAMIL	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.9
2023	11	64937	Hecate Energy Desert Storage 1 LLC	IPP	Hecate Energy Desert Storage 1 LLC	CA	65635	HEDS1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2023	11	64409	Hecate Energy Ramsey, LLC	IPP	Aktina Solar	TX	64927	AKS01	500.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	500.0
2023	11	64978	Hecate Grid Carris Storage 1 LLC	IPP	Carris Storage I	CA	65733	HECAR	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2023	11	9191	Idaho Power Co	Electric Utility	Melba BESS	ID	66329	1	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
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	PACT5	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	Oxbow Solar 1	LA	65030	LAVE1	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2023	11	65196	Lyons Solar, LLC	IPP	Lyons Solar	PA	66019	PA01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2023	11	64511	MN CSG 2019-21 LLC	IPP	Hultmann CSG	MN	65101	HLTMN	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	64509	MN CSG 2019-23 LLC	IPP	Eichten 3 CSG	MN	65115	ECHT3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	64512	MN CSG 2019-41 LLC	IPP	Lindgren 1 CSG	MN	65102	LNDGR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	61944	MN8 Energy LLC	IPP	NY8 - Teichos Pattersonville	NY	65840	GEN1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	11	64445	Mazeppa CSG 1 LLC	IPP	Mazeppa CSG	MN	65017	MZPA	0.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2023	11	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	(T) Regulatory approvals received. Not under construction	4.3
2023	11	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
2023	11	13683	North Carolina El Member Corp	Electric Utility	Docs Road BESS	NC	65249	BAT1	5.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	5.0
2023	11	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
2023	11	13683	North Carolina El Member Corp	Electric Utility	Maysville BESS	NC	65240	BAT1	5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	5.0
2023	11	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
2023	11	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
2023	11	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

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	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
2023	11	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
2023	11	13683	North Carolina El Member Corp	Electric Utility	Zion Hill BESS	NC	65247	BAT1	5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	5.0
2023	11	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	11	64935	Ortega Grid, LLC	IPP	Ortega Grid, LLC	CA	65656	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	Fredonia 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	64471	EIFEL	240.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	240.0
2023	11	65619	Pepin Garden LLC	IPP	Pepin Garden	MN	66577	MNC02	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	64752	Perendale Holdings, LLC	IPP	Perendale Holdings, LLC	NC	65426	GEN1	7.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.5
2023	11	64549	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	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2023	11	65577	Potsdam Community Solar 2, LLC	IPP	NY Potsdam 28 Hamilton St. Solar	NY	66530	21013	4.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.4
2023	11	65843	SMT Alamo LLC	IPP	SMT Alamo LLC	TX	66929	SMTAL	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	11	65847	SMT Harlingen II LLC	IPP	SMT Harlingen II LLC	TX	66933	SMTH2	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	11	65838	SMT Mercedes LLC	IPP	SMT Mercedes LLC	TX	66926	SMTNM	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	11	65839	SMT Mission LLC	IPP	SMT Mission LLC	TX	66927	SMTMB	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	11	65844	SMT Santa Rosa LLC	IPP	SMT Santa Rosa LLC	TX	66928	SMTSR	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	11	27075	San Diego County Water Auth	IPP	Rancho Penasquitos	CA	56615	G200	4.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	4.3
2023	11	64936	San Jacinto Grid, LLC	IPP	San Jacinto Grid, LLC	CA	65657	HESJG	65.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	65.0
2023	11	17609	Southern California Edison Co	Electric Utility	Anode (Springville) BESS	CA	65458	ANOD1	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2023	11	17609	Southern California Edison Co	Electric Utility	Anode (Springville) BESS	CA	65458	ANOD2	112.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	112.5
2023	11	17609	Southern California Edison Co	Electric Utility	Cadillac Battery Energy Storage Facility	CA	63326	CAD1	3.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.5
2023	11	17609	Southern California Edison Co	Electric Utility	Yorktown Battery Energy Storage Facility	CA	63325	YORK1	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2023	11	65617	Sturgeon Garden LLC	IPP	Sturgeon Garden	MN	66579	MNC05	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	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	B05	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	11	65123	Tres Bahias Solar Power, LLC	IPP	Tres Bahias	TX	65947	TB	196.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	196.3
2023	11	64168	Tyre Bridge Solar LLC	IPP	Tyre Bridge Solar LLC	GA	64537	KOV4A	118.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	118.0
2023	11	65173	United States Solar Corporation	IPP	USS Fair Park Solar LLC	MN	66433	USFPS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2023	11	65173	United States Solar Corporation	IPP	USS Martha Solar LLC	MN	66477	USMAS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2023	11	65755	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
2023	11	6775	Village of Freeport - (NY)	Electric Utility	Plant No 1 Freeport	NY	2678	ENG13	3.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	11	63492	West River Solar, LLC	IPP	West River Solar, LLC	NC	63806	PGR28	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2023	11	65616	Winona Garden LLC	IPP	Winona Garden	MN	66580	MNC06	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2023	11	20856	Wisconsin Power & Light Co	Electric Utility	Springfield Solar (WI)	WI	64996	PV1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	12	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	12	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
2023	12	64904	AES Clean Energy	IPP	Baldy Mesa 2_Silver Peak Hybrid	CA	66885	SPKPV	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2023	12	64904	AES Clean Energy	IPP	Baldy Mesa Solar & Storage	CA	66598	BDMSS	75.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	75.0
2023	12	64904	AES Clean Energy	IPP	Baldy Mesa Solar & Storage	CA	66598	BLDMS	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2023	12	64904	AES Clean Energy	IPP	Big Spring Solar	MD	66868	BIGSP	2.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2023	12	64904	AES Clean Energy	IPP	Estrella Solar & Storage	CA	66772	ESPV	56.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	56.0
2023	12	64904	AES Clean Energy	IPP	Estrella Solar & Storage	CA	66772	ESTRB	28.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	28.0
2023	12	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	12	64904	AES Clean Energy	IPP	McFarland A Solar and Storage	AZ	66636	MCFRA	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2023	12	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
2023	12	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
2023	12	64904	AES Clean Energy	IPP	Oak Ridge Solar	LA	66193	OAKRG	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	64904	AES Clean Energy	IPP	Raceway Solar & Storage	CA	66773	RCWYB	80.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	80.0
2023	12	64904	AES Clean Energy	IPP	Raceway Solar & Storage	CA	66773	RCWYS	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	125.0
2023	12	61012	AES Distributed Energy	IPP	AES Maui Kuihelani Solar Hybrid	HI	64256	KLNIB	60.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	60.0
2023	12	61012	AES Distributed Energy	IPP	AES Maui Kuihelani Solar Hybrid	HI	64256	KULNI	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2023	12	61012	AES Distributed Energy	IPP	AES Waiawa Phase 2 Solar	HI	66066	WAIBA	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2023	12	61012	AES Distributed Energy	IPP	AES Waiawa Phase 2 Solar	HI	66066	WAIPV	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2023	12	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
2023	12	64615	Antares Group Inc	IPP	Elm Spring Solar 1	VA	65313	ES	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	12	64996	Arica Solar, LLC	IPP	Arica Solar	CA	65744	ARCBA	136.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	136.0
2023	12	64996	Arica Solar, LLC	IPP	Arica Solar	CA	65744	ARCPV	263.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	263.0
2023	12	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARSOL	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2023	12	15399	Avangrid Renewables LLC	IPP	Bakeoven Solar	OR	63507	BOS1	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2023	12	15399	Avangrid Renewables LLC	IPP	Daybreak Solar	OR	64974	DBS1	140.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	140.0
2023	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	64788	Big Cypress Solar, LLC	IPP	Big Cypress Solar, LLC	AR	65483	BIGC1	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2023	12	65210	Bird Dog Solar, LLC	IPP	Bird Dog Solar	GA	66024	GA-01	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2023	12	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	Bridge Energy LLC	Industrial	Blacksand 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	Bridge Energy LLC	Industrial	Blacksand 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	Hydra	TX	65490	HYDRA	200.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	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
2023	12	63883	Broad Reach Power	IPP	Tortolas	TX	65493	TORTO	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2023	12	65166	Bronco Plains Wind II, LLC	IPP	Bronco Plains Wind II, LLC	CO	66014	WBOPT	199.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	65512	Catalyze 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	Catalyze 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	65568	Catalyze Sunnyvale 367 Long Creek Road Microgrid, LLC	IPP	TX Sunnyvale 367 Long Creek Road Solar	TX	66520	19644	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2023	12	65458	Cereal City Solar, LLC	IPP	Cereal City Solar, LLC	MI	66389	CCSPV	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	CHSP	118.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	118.0
2023	12	3913	City of Colby - (KS)	Electric Utility	Colby City of	KS	1272	10	3.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	3.0
2023	12	65164	CleanCapital Holdings	IPP	Gorham Solar 1, LLC	ME	65342	GS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2023	12	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 4, LLC	AZ	65962	MS4	52.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.5
2023	12	56769	Consolidated Edison Development Inc.	IPP	Mesquite Solar 4, LLC	AZ	65962	MS4B	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2023	12	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2023	12	61610	Delaware River Solar, LLC	IPP	Chidsey Hill Road Solar	NY	65828	1666	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2023	12	61610	Delaware River Solar, LLC	IPP	Day Hollow Road Solar	NY	65826	1829	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2023	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	61610	Delaware River Solar, LLC	IPP	Route 5 & 20 Community Solar Farm	NY	62523	1093	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2023	12	61610	Delaware River Solar, LLC	IPP	State Route 64N Community Solar Farm	NY	62520	1089	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2023	12	64872	Distributed Solar Development, LLC	IPP	Bayer - Whippany, NJ	NJ	66798	P5316	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2023	12	64872	Distributed Solar Development, LLC	IPP	FFP - NY Burch	NY	66827	P5651	2.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	12	64872	Distributed Solar Development, LLC	IPP	FFP - NY Werner	NY	66829	P5650	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	12	5248	Dominion Energy Inc.	Electric Utility	Norge Solar Farm	VA	64086	NORG	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	5248	Dominion Energy Inc.	Electric Utility	Piney Creek Solar	VA	62768	PCSOL	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	12	3046	Duke Energy Progress - (NC)	Electric Utility	Woodfin Solar	NC	64882	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65411	Duke Energy Renewables Services	IPP	Pike Solar Hybrid	CO	64212	CO465	175.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	175.0
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	58970	Ecoplexus, Inc	IPP	Olin Creek Farm Solar	NC	64626	OLINC	35.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	35.0
2023	12	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2023	12	64306	Elektron Solar, LLC	IPP	Elektron Solar, LLC	UT	64739	ELKS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2023	12	64458	Enfield Solar One, LLC	IPP	Enfield Solar One	CT	65047	VCP07	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2023	12	22500	Evergy Kansas Central, Inc	Electric Utility	FreeState Stull Solar I	KS	66884	FSS1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2023	12	64810	Eversource Energy	IPP	South Fork Wind	NY	65561	SFWND	130.0	Offshore Wind Turbine	WND	WS	(U) Under construction, less than or equal to 50 percent complete	130.0
2023	12	65226	FGE Goodnight I, LLC	IPP	Goodnight	TX	59246	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	FNCPT	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	259.0	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	FWSOL	320.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	45.0
2023	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
2023	12	65720	Fresno Community Solar Developers, LLC	IPP	Fresno Community Solar	CA	66715	FREPV	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2023	12	65097	Gans Solar, LLC	IPP	Gans Solar	PA	65902	5	14.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	14.0
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Athens Ridge	ME	66832	574	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Lemonweir (Oak 1)	WI	66760	713	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2023	12	60025	Greenbacker Renewable Energy Corporation	IPP	Richmond Hill	ME	66741	575	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	1.5
2023	12	65076	HEN Infrastructure, L.L.C.	IPP	Weil Tract BESS	TX	66783	WEILT	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.9
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	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	HHILL	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	65794	Indiana Crossroads Wind Farm II LLC	IPP	Indiana Crossroads Wind Farm II	IN	66861	GEN01	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	201.6
2023	12	49893	Invenergy 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	Invenergy Services LLC	IPP	Tip Top Solar Energy Center LLC	NM	63028	GEN1	220.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	220.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Chaparral Springs	CA	64864	CHAPB	52.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	52.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Chaparral Springs	CA	64864	GEN01	72.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	72.0
2023	12	50123	Leeward Asset Management, LLC	IPP	Chaparral Springs	CA	64864	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	65308	HRZNS	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2023	12	65277	Leyline Renewable Capital	IPP	HCE Amelia Solar I, LLC	VA	66115	AML1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	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	MLBS	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 House 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	(U) Under construction, less than or equal to 50 percent complete	20.0
2023	12	65100	Listonburg Solar, LLC	IPP	Listonburg Solar	PA	65929	8	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2023	12	61752	Lone Star Solar	IPP	Lone Star Solar	SC	62235	49	66.0	Solar Photovoltaic	SUN	PV	(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	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	GEN20	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.0
2023	12	12341	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	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLES1	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLPV1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	12	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	RGES1	220.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	220.0
2023	12	64507	North Haven Solar One, LLC	IPP	North Haven Solar One	CT	65109	VCP11	1.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.6
2023	12	64581	OE_FL10	IPP	OE_FL10	FL	65290	OFL10	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2023	12	64583	OE_FL7	IPP	OE_FL7	FL	65292	OE_FL	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2023	12	64584	OE_MS4	IPP	OE_MS4	MS	65293	OEMS4	96.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	96.0
2023	12	64087	OE_MS5	IPP	OE_MS5	MS	64529	MS5_S	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2023	12	64087	OE_MS5	IPP	OE_MS5	MS	64529	OEMS5	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	12	64582	OE_MS6	IPP	OE_MS6	MS	65291	MS6_S	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2023	12	64582	OE_MS6	IPP	OE_MS6	MS	65291	OEMS6	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	12	65098	Pechin Solar, LLC	IPP	Pechin Solar	PA	65903	9	14.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	14.0
2023	12	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	65772	River Ferry Solar 1, LLC	IPP	River Ferry Solar 1	IL	66820	RVFRY	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	165.3
2023	12	65573	SL Fredonia, LLC	IPP	NY Fredonia 9824 Route 60 Solar	NY	66525	21105	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2023	12	65841	SMT Elsa LLC	IPP	SMT Elsa LLC	TX	66931	SMTEL	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	12	65840	SMT Los Fresnos LLC	IPP	SMT Los Fresnos LLC	TX	66932	SMTLF	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	12	65845	SMT Rio Grande I LLC	IPP	SMT Rio Grande I LLC	TX	66934	SMTR1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	12	65846	SMT Rio Grande II LLC	IPP	SMT Rio Grande II LLC	TX	66935	SMTR2	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2023	12	65306	SR DeSoto II, LLC	IPP	SR DeSoto II	GA	66172	SOTO2	65.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.0
2023	12	65786	SR DeSoto III, LLC	IPP	SR DeSoto III	GA	66825	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	(T) Regulatory approvals received. Not under construction	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	65578	Shamrock Wind LLC	IPP	Shamrock Wind	TX	66540	WSHAM	223.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	223.9
2023	12	17058	Shell Wind Energy Inc.	IPP	Madison Fields Solar Project, LLC	OH	66198	USMDF	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2023	12	64994	SolRiver Capital LLC	IPP	Elk Solar LLC	NC	66345	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(T) Regulatory approvals received. Not under construction	3.0
2023	12	65652	Sonoran Solar Energy, LLC	IPP	Sonoran Solar Energy	AZ	66627	SON12	260.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	260.0
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	65956	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

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	65208	TPE RI WA2, LLC	IPP	TPE RI WA2 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	Alafia Solar	FL	61653	PV1	60.0	Solar Photovoltaic	SUN	PV	(V) 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	Sanborn 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	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	3	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	65112	TotalEnergies Distributed Generation, LLC	Commercial	Shasta College PH2 Solar Project	CA	65940	SCSP1	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2023	12	65112	TotalEnergies Distributed Generation, LLC	Commercial	Shasta College PH2 Solar Project	CA	65940	SCSPB	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2023	12	65173	United States Solar Corporation	IPP	USS Cosmo Solar LLC	MN	66435	USCOS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	64457	VCP, LLC d/b/a Verogy	IPP	FedEx Middletown	CT	65046	VCP15	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	12	64808	Verizon Communications	IPP	Verizon Comms Garage Top Solar Project	CA	65507	VCGSP	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2023	12	64545	Vesper Energy Development LLC	IPP	Nestlewood Solar	OH	65215	NSTLW	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2023	12	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
2023	12	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
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	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	64393	GEN2	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2023	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
2023	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
2023	12	20856	Wisconsin Power & Light Co	Electric Utility	Albany Solar (WI)	WI	64997	PV1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2023	12	20856	Wisconsin Power & Light Co	Electric Utility	Paddock Solar	WI	64998	PV1	65.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	65.0
2023	12	20856	Wisconsin Power & Light Co	Electric Utility	Wautoma Solar	WI	65000	PV1	99.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	99.0
2024	1	64904	AES Clean Energy	IPP	Cannonball Solar	MD	66867	CBALL	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	64268	Black Rock Solar LLC	IPP	Black Rock Solar LLC	WA	64671	KOV4A	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2024	1	65270	Blue Elk I Solar, LLC	IPP	Blue Elk I Solar, LLC	MI	66107	BEI	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	1	63883	Broad Reach Power	IPP	Crockett	TX	65488	CROKT	9.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.9
2024	1	64455	CG Wharton County LLC	IPP	Sandy Branch Solar	TX	65034	CSBS1	230.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	230.0
2024	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	64872	Distributed Solar Development, LLC	IPP	Bishop Ranch - BR 8-P	CA	66800	4976	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2024	1	64872	Distributed Solar Development, LLC	IPP	Bishop Ranch - BR 8-P	CA	66800	4976B	0.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	0.5
2024	1	64872	Distributed Solar Development, LLC	IPP	Harrah's Atlantic City - POI 1 (Meeting	NJ	66830	P5376	2.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.3
2024	1	64872	Distributed Solar Development, LLC	IPP	Harrah's Atlantic City - POI 2 (Self Par	NJ	66831	P5614	1.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.8
2024	1	6455	Duke Energy Florida, LLC	Electric Utility	Mule Creek Renewable Energy Center	FL	65501	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2024	1	6455	Duke Energy Florida, LLC	Electric Utility	Winquepin Renewable Energy Center	FL	66553	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2024	1	6452	Florida Power & Light Co	Electric Utility	Beautyberry	FL	65874	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Caloosahatchee	FL	65871	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Canoe	FL	65866	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Ibis	FL	65877	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Monarch	FL	65872	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Orchard	FL	65925	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Pineapple	FL	65865	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Prairie Creek FL	FL	65868	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Silver Palm	FL	65878	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Terrill Creek	FL	65882	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	Turnpike	FL	65873	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	6452	Florida Power & Light Co	Electric Utility	White Tail	FL	65869	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	1	62856	Forefront Power, LLC	IPP	CA - Amazon - SMF6	CA	65616	20031	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2024	1	62856	Forefront Power, LLC	IPP	CA-DGS- RFP-Correctional Training Fac	CA	65524	14069	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Appaloosa Solar I	UT	65678	AS1A	120.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	120.0
2024	1	60025	Greenbacker Renewable Energy Corporation	IPP	Appaloosa Solar I	UT	65678	AS1B	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	1	65076	HEN Infrastructure, L.L.C.	IPP	Falfurrias BESS	TX	66792	FALFU	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.9
2024	1	65076	HEN Infrastructure, L.L.C.	IPP	Farmersville (TX)	TX	65812	FRMVL	9.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.9
2024	1	62153	Hecate Energy Highland LLC	IPP	Hecate Energy Highland LLC	OH	62670	HIGHL	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	1	65052	Limestone CSG 1 LLC	IPP	Limestone CSG 1 LLC	ME	65801	LMST1	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2024	1	65344	Misenheimer Solar LLC	IPP	Misenheimer Solar LLC	NC	66237	GEN01	74.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	64377	Novel Blilie Solar, LLC	IPP	Novel Blilie Solar LLC	MN	64865	BLILE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	1	64433	Novel Bo Hu 1 Solar LLC	IPP	Novel Bo Hu 1 Solar LLC	MN	65006	BOHU1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
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	65580	Pioneer Hutt Wind Energy, LLC	IPP	Pioneer Hutt Wind Energy	TX	66531	WPION	140.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	140.0
2024	1	64169	Prairie Solar LLC	IPP	Prairie Solar LLC	IL	64536	KOV4A	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2024	1	65394	Proxima Solar, LLC	IPP	Proxima	CA	66270	PRXBS	162.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 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	64371	RPNY Solar 3, LLC	IPP	Slayton Settlement Road Solar	NY	64867	SLYTA	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2024	1	64371	RPNY Solar 3, LLC	IPP	Slayton Settlement Road Solar	NY	64867	SLYTB	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	1	65426	St. Gall Energy Storage I	IPP	St. Gall Energy Storage I	TX	66336	SGES1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	102.6
2024	2	59613	BayWa r.e. Solar Projects LLC	IPP	Bluebird Solar LLC	KY	62797	BBIRD	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	2	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-02	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	2	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	2	63883	Broad Reach Power	IPP	Dickens	TX	65489	DIKNS	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	Paleo	TX	65491	PALEO	200.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	2	65565	Catalyze Houston Express Lane Microgrid, LLC	IPP	TX Houston 7080 Express Lane	TX	66517	19344	1.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.9
2024	2	65565	Catalyze Houston Express Lane Microgrid, LLC	IPP	TX Houston 7080 Express Lane	TX	66517	B9344	1.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.5
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

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	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	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	CISCO BESS	TX	66795	CISCO	9.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.9
2024	2	65076	HEN Infrastructure, L.L.C.	IPP	Judkins BESS	TX	66790	JUDKS	9.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.9
2024	2	65076	HEN Infrastructure, L.L.C.	IPP	Lufkin South BESS	TX	66789	LUFKS	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	9.9
2024	2	65076	HEN Infrastructure, L.L.C.	IPP	Pauline BESS	TX	66784	PAULN	9.9	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	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	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	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Honeysuckle Solar Farm	IN	65936	INHS1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
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	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	2	64994	SolRiver Capital LLC	IPP	Green Solar LLC (CSG)	OR	66349	PV1	2.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	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	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	2	65552	Terra-Gen Operating Co-BESS 2	IPP	Placerita ESS	CA	66462	GEN1	80.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	88.0
2024	2	60947	Tesla Inc.	Industrial	Austin TX GigaFactory	TX	65070	A04	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2024	2	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	2	65213	Wolfskin Solar, LLC	IPP	Wolfskin Solar	GA	66027	GA-04	38.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	38.0
2024	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	65674	Bear Canyon Energy Storage	IPP	Bear Canyon	CA	66650	BC1	13.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	13.0
2024	3	65813	CES Electron Farm One, LLC	IPP	CES Electron Farm One, LLC	CA	66892	CNFTI	4.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.4
2024	3	65591	Cane Creek Solar, LLC	IPP	Cane Creek	MS	66543	PGRCC	78.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.5
2024	3	65489	Canyon Wind Project, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	311.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	311.0
2024	3	65515	Catalyze Moss Landing Hilltop Rd Microgrid, LLC	IPP	CA Moss Landing 3040 Hilltop Rd	CA	66510	19616	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2024	3	65515	Catalyze Moss Landing Hilltop Rd Microgrid, LLC	IPP	CA Moss Landing 3040 Hilltop Rd	CA	66510	B9616	1.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.0
2024	3	56769	Consolidated Edison Development Inc.	IPP	Peregrine Solar	TX	65979	PSPV	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	3	65315	Crooked Lake Solar, LLC	IPP	Crooked Lake Solar, LLC	AR	66185	GEN1	175.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	175.0
2024	3	58468	Dominion Renewable Energy	Electric Utility	Quillwort Solar	VA	65318	POWI	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	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	65774	Fence Post Solar Project, LLC	IPP	Fence Post Solar Hybrid Project, LLC	TX	66801	FNCBE	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	Fourmile Creek	FL	65927	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Hawthorne Creek	FL	65926	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	Nature Trail	FL	65924	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2024	3	6452	Florida Power & Light Co	Electric Utility	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	Woodyard	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	63638	Horseshoe Solar, LLC	IPP	Horseshoe Solar, LLC	UT	63984	HSS	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2024	3	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	96.0
2024	3	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 4	PA	65079	PACT4	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	3	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	3	65053	Limestone CSG 2 LLC	IPP	Limestone CSG 2 LLC	ME	65802	LMST2	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.9
2024	3	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	3	65347	Pearl River Solar Park, LLC	IPP	Pearl River Solar Park LLC	MS	66239	GEN01	175.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	175.0
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	63969	Placid Solar, LLC	IPP	Highland Solar North	FL	64345	1112	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.9
2024	3	63969	Placid Solar, LLC	IPP	Highland Solar South	FL	64346	9999	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.9
2024	3	65392	Riverstart Solar Park III LLC	IPP	Riverstart Solar Park III	IN	66269	RSS03	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2024	3	63639	Rocket Solar, LLC	IPP	Rocket Solar, LLC	UT	63983	RS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2024	3	63778	SR Litchfield, LLC	IPP	SR Litchfield	CT	64161	LITCH	19.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.8
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	(L) Regulatory approvals pending. Not under construction	5.0
2024	3	64994	SolRiver Capital LLC	IPP	Marble 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	(L) Regulatory approvals pending. Not under construction	5.0
2024	3	65380	Steel Solar, LLC	IPP	Steel Solar LLC	UT	66267	SS8	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2024	3	65715	Strata Clean Energy	IPP	Chiltepin Solar	TX	66704	11106	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	3	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	3	65552	Terra-Gen Operating Co-BESS 2	IPP	Beaumont BESS	CA	66461	GEN1	100.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	116.6
2024	3	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	GA3	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2024	3	60947	Tesla Inc.	Industrial	Fremont CA AutoFactory	CA	65072	GVSRS	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	STAMP	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	VSRS	0.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.4
2024	3	65014	Waco Solar, LLC	IPP	Waco Solar	TX	65762	SWACO	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	66669	WFF1	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	Cassville Solar	WI	64995	PV1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2024	4	64247	20SD 8me LLC	IPP	Rexford Solar Farm	CA	64633	20SDB	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	57416	Acciona Energy USA Global, LLC	IPP	AEUG Union Solar, LLC	OH	64660	AUS	325.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	325.0
2024	4	65569	Afton Solar LLC	IPP	Afton Solar	NY	66521	18808	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2024	4	65654	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	63235	Brookfield Renewable Trading and Marketing LP	IPP	AM Wind Repower LLC	CA	66167	63235	27.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	27.0

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	64166	Brushy Creek Solar LLC	IPP	Brushy Creek Solar LLC	TX	64539	KOV4A	177.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	177.0
2024	4	64872	Distributed Solar Development, LLC	IPP	FFP - NY Game Farm	NY	66828	P5652	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2024	4	58468	Dominion Renewable Energy	IPP	Atlanta Farms Solar	OH	65128	43164	199.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	199.6
2024	4	58468	Dominion Renewable Energy	IPP	Springfield Solar	VA	65317	SPRG	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	4	65806	Elk Street Solar LLC	IPP	Elk Street Solar	NY	66886	ES	2.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.4
2024	4	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	4	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	4	65572	Greene Community Solar LLC	IPP	Greene Community Solar	NY	66524	20738	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	61944	MN8 Energy LLC	IPP	WMATA - Cheverly Metro	MD	65959	GEN1	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2024	4	64743	PPM Solar LLC	IPP	Highpeak Solar 1	TX	66572	HPKS1	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	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2024	4	56215	RWE Renewables Americas, LLC	IPP	Big Star Solar, LLC (Hybrid)	TX	64202	BGSTB	80.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	4	56215	RWE Renewables Americas, LLC	IPP	Big Star Solar, LLC (Hybrid)	TX	64202	BGSTS	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	4	56215	RWE Renewables Americas, LLC	IPP	Willowbrook Solar I, LLC	OH	63877	WBS	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
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	7.3
2024	4	16609	San Diego Gas & Electric Co	Electric Utility	Dark Sky Energy Center	CA	66599	2	0.3		H2	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	SCRV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	4	63243	Solar Carver 3, LLC	IPP	Solar Carver 3 Hybrid	MA	63506	BCRV3	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	4	63243	Solar Carver 3, LLC	IPP	Solar Carver 3 Hybrid	MA	63506	SCRV3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2024	4	63515	Sparta Solar, LLC	IPP	Sparta Solar	TX	63840	1111	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2024	4	65625	Sunlight Storage II	IPP	Sunlight Storage II	CA	66575	SUNS2	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	65660	TSN2	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2024	4	64457	VCP, LLC d/b/a Verogy	IPP	Dollar Tree Solar One	CT	65148	VCP13	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2024	4	65754	VESI 12 LLC	IPP	Bottleneck Energy Storage	CA	66757	BN1	80.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	5	65646	AFTW Storage, LLC	IPP	AFTW Storage, LLC	CA	66619	AFTW	1.2	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.2
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	64085	American Beech Solar LLC	IPP	American Beech Solar LLC	NC	64430	KOV4A	110.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	110.0
2024	5	65700	Atrisco Energy Storage LLC	IPP	Atrisco Energy Storage	NM	66694	ATRES	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2024	5	65765	Borden County Battery Energy Storage System LLC	IPP	Borden County BESS	TX	66804	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	(T) Regulatory approvals received. Not under construction	300.0
2024	5	65694	Bright Arrow Solar, LLC	IPP	Bright Arrow Solar, LLC	TX	66688	BASS1	103.6	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	103.6
2024	5	65361	CT Cutlass II Solar LLC	IPP	Rowland Solar II	TX	66262	SAREN	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	A3BS2	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	CRBS2	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	UVPV2	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	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	NY	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	64165	Knickerbocker Solar LLC	IPP	Knickerbocker Solar LLC	TX	64540	KOV4A	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	5	65627	NRG THW GT LLC	IPP	NRG THW GT Electric Generating Station	TX	66601	GT61	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	GT62	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	188.7
2024	5	65796	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	WND	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	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	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	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	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 Fruita 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	WND	WS	(L) Regulatory approvals pending. Not under construction	800.0
2024	5	20856	Wisconsin Power & Light Co	Electric Utility	Grant County	WI	65007	PV1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2024	6	64904	AES Clean Energy	IPP	Delta Wind Farm (MS)	MS	66000	DLTA	184.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	184.5
2024	6	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	6	59474	BQ Energy LLC	IPP	Yeoman Creek	IL	61910	YEOM	8.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.8
2024	6	65280	Babbitt Ranch Energy Center, LLC	IPP	Babbitt Ranch Energy Center	AZ	66110	BREC1	163.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	163.0
2024	6	64267	Big Creek Solar LLC	IPP	Big Creek Solar LLC	AR	64670	KOV4A	400.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	400.0
2024	6	65654	Birch Creek Development	IPP	Altona Solar, LLC	MO	66628	PV	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2024	6	65654	Birch Creek Development	IPP	Salt Creek Township Solar, LLC	IL	66633	PV	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2024	6	65696	Brazos Bend BESS, LLC	IPP	Brazos Bend BESS, LLC	TX	66690	BEND	100.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	100.0
2024	6	63883	Broad Reach Power	IPP	Antlia	TX	65588	ANTLA	70.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	70.0
2024	6	63883	Broad Reach Power	IPP	Carina	TX	65589	CARNA	150.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	150.0
2024	6	63883	Broad Reach Power	IPP	Octans	TX	65590	OCTNS	125.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	125.0
2024	6	65658	Caden Energix Axton LLC	IPP	Caden Energix 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	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

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	64624	Cedar Creek Wind, LLC	IPP	Cedar Creek Wind, LLC	ID	65311	CDCRK	160.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	2.2
2024	6	65780	Clearwater Wind III, LLC	IPP	Clearwater Wind III	MT	66811	CW3	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	6	64843	Dakota County, MN	Electric Utility	Byllesby	MN	50328	NOR-1	2.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	6	64843	Dakota County, MN	Electric Utility	Byllesby	MN	50328	SOU-2	2.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	6	64872	Distributed Solar Development, LLC	IPP	Caesar's Atlantic City - POI 1 (Colosseu	NJ	66813	PS377	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2024	6	5248	Dominion Energy Inc.	Electric Utility	Bookers 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	64947	EDPR CA Solar Park II LLC	IPP	Sandrini Solar 100	CA	65664	GEN02	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2024	6	64946	EDPR CA Solar Park LLC	IPP	Sandrini Solar 200	CA	65663	GEN01	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2024	6	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	6	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	6	65368	Eleven Mile Solar Center, LLC	IPP	Eleven Mile Solar Center	AZ	66263	1111	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	6	65641	EnLink Processing Services, LLC	Industrial	Eunice LA Plant	LA	66615	STG01	4.6	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	4.7
2024	6	65381	Gravel Pit Solar, LLC	IPP	Gravel Pit Solar, LLC	CT	66268	GPS03	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2024	6	65805	Gulfstar Power, LLC	IPP	Gulfstar Power, LLC	TX	66871	BESS	300.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	300.0
2024	6	65805	Gulfstar Power, LLC	IPP	Gulfstar Power, LLC	TX	66871	SOLAR	451.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	451.6
2024	6	65650	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	63289	Key Capture Energy	IPP	TX15 Limousin Oak Storage	TX	65698	TX15	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2024	6	50123	Leeward Asset Management, LLC	IPP	AVEP BESS	CA	65591	AVEPB	126.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	126.0
2024	6	50123	Leeward Asset Management, LLC	IPP	Union Ridge Solar	OH	65338	UNIS1	108.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	108.0
2024	6	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Second Division Solar	TX	65981	TXSD1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	6	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Starr Solar Ranch	TX	65975	TXST1	136.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	136.0
2024	6	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	65550	Nova Power, LLC	IPP	Menifee Power Bank	CA	66494	NOVA1	230.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	230.0
2024	6	65550	Nova Power, LLC	IPP	Menifee Power Bank	CA	66494	NOVA2	230.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	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	5317	256.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	256.0
2024	6	16534	Sacramento Municipal Util Dist	Electric Utility	Solano Wind	CA	7526	4	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	SC	59596	PV1	9.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	9.6
2024	6	64778	Strata Manager, LLC	IPP	Inland 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	Quarry Sun CSG	MN	66073	QURYS	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2024	6	65419	Superstition Energy Storage, LLC	IPP	Superstition 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	65685	Tumbleweed Energy Storage, LLC	IPP	Tumbleweed Energy Storage	CA	66666	TWES1	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	6	65777	Urban Grid Solar	IPP	Foxglove Solar	VA	66841	FOXG1	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2024	6	64457	VCP, LLC d/b/a Verogy	IPP	Emery Shute Solar One	ME	65045	VCP14	1.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.4
2024	6	64457	VCP, LLC d/b/a Verogy	IPP	Spencer Drive Solar One	ME	65138	VCP18	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2024	7	65684	549 Doles Ridge Rd Solar LLC	IPP	549 Doles Ridge Rd Solar LLC	ME	66665	549DR	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2024	7	61012	AES Distributed Energy	IPP	Glen Canyon Solar A, LLC	UT	66484	GCA	95.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	95.0
2024	7	57416	Acciona Energy USA Global, LLC	IPP	Red Tailed Hawk Solar LLC	TX	66157	GEN1	350.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	350.0
2024	7	65654	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	MH162	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	MNC07	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
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 Veedersburg 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	(L) Regulatory approvals pending. Not under construction	210.1
2024	7	13407	Nevada Power Co	Electric Utility	Silverhawk	NV	55841	CT4	222.6	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	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	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701-S	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	7	65685	Tumbleweed Energy Storage, LLC	IPP	Tumbleweed Energy Storage	CA	66666	TWES2	75.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	75.0
2024	7	65645	Wadley Solar, LLC	IPP	Wadley Solar	GA	66626	WADLE	260.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	260.0
2024	8	65293	Bartonsville Energy Facility, LLC	IPP	Bartonsville Energy Facility, LLC	VA	66133	BTS	130.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	130.0
2024	8	65788	Ben Milam Solar 1 LLC	IPP	Orion I Solar Project	TX	66859	ORN1	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2024	8	65782	Ben Milam Solar 3 LLC	IPP	Orion III Solar Project	TX	66821	ORN3	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2024	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	G6PV	0.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.8
2024	8	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC3	20.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	8	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC4	20.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	8	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC5	20.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	8	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC6	20.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	8	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC7	20.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	8	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	IC8	20.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	8	65397	Condor Energy Storage LLC	IPP	Condor Energy Storage LLC	CA	66285	COND1	200.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	200.0
2024	8	56769	Consolidated Edison Development Inc.	IPP	CED Denmark Solar Hybrid	ME	63898	DSBS	2.3	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.3
2024	8	56769	Consolidated Edison Development Inc.	IPP	CED Denmark Solar Hybrid	ME	63898	DSPV	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2024	8	61978	Convergent Energy and Power LP	IPP	Staten Island Energy Storage 1 LLC	NY	66498	SIBA1	5.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	5.0
2024	8	59656	Desert Quartzite LLC	IPP	Desert Quartzite	CA	59871	GEN01	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2024	8	59656	Desert Quartzite LLC	IPP	Desert Quartzite	CA	59871	GEN02	150.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	150.0
2024	8	17539	Dominion Energy South Carolina, Inc	Electric Utility	Bushy Park Combustion Turbine Facility	SC	66600	CT1	40.3	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	65.4
2024	8	6455	Duke Energy Florida, LLC	Electric Utility	Falmouth Renewable Energy Center	FL	66639	PV1	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	135.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	135.0
2024	8	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU10	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5

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	65398	Peregrine Energy Storage, LLC	IPP	Peregrine Energy Storage LLC	CA	66286	PERE1	200.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	200.0
2024	8	65618	Pickerel Garden LLC	IPP	Pickerel Garden	MN	66578	MNC03	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2024	8	65626	San Juan Solar I, LLC	IPP	San Juan Solar I	NM	66574	SJSS	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	8	65777	Urban Grid Solar	IPP	Alton Post Office Solar	VA	66837	ALPT1	82.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	64966	Vikings Energy Farm, LLC	IPP	Vikings Energy Farm	CA	65711	GEN1	120.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	130.0
2024	8	64966	Vikings Energy Farm, LLC	IPP	Vikings Energy Farm	CA	65711	GEN2	150.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	150.0
2024	9	65654	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	KOV4A	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	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
2024	9	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
2024	9	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
2024	9	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
2024	9	65693	Graceland Solar, LLC	IPP	Graceland 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	66268	GPS04	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2024	9	7570	Great River Energy	Electric Utility	Cambridge CT Hybrid	MN	2038	BA1	0.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.0
2024	9	65808	La Casa Wind, LLC	IPP	La Casa Wind	TX	66919	5309	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	64674	Noria Hondo Solar LLC	IPP	Noria Hondo Solar (Hybrid)	TX	65344	66148	145.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	145.0
2024	9	64674	Noria Hondo Solar LLC	IPP	Noria Hondo Solar (Hybrid)	TX	65344	66149	75.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	75.0
2024	9	65550	Nova Power, LLC	IPP	Menifee Power Bank	CA	66494	NOVA3	50.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	50.0
2024	9	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
2024	9	65776	RPCA Solar 7, LLC	IPP	East Cleveland Road Solar	CA	66810	ECLE	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2024	9	18454	Tampa Electric Co	Electric Utility	Dover Solar	FL	66129	BESS1	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2024	9	64545	Vesper Energy Development LLC	IPP	Kingwood Solar	OH	65425	KWOOD	175.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	175.0
2024	10	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	63520	326FW 8me LLC	IPP	Arida Solar (Hybrid)	NV	63841	BESS	185.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	185.0
2024	10	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	64744	Boswell Wind, LLC	IPP	Boswell Wind	WY	65403	BOSWW	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	62892	SONRI	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	201.0
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	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	IMPA Richmond 8 Solar Park	IN	66748	RICH8	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	66060	PACS7	21.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	21.1
2024	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Cottontail Solar 9	PA	66130	PACT9	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	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	65904	OHWT1	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	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHBA	15.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	15.0
2024	10	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHSOL	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2024	10	65348	Ragsdale Solar, LLC	IPP	Ragsdale Solar LLC	MS	66240	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2024	10	64351	Roxbury Solar, LLC	IPP	Roxbury Solar, LLC	ME	64834	ROX	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2024	10	65079	Solar Proponent LLC	IPP	Goldenrod Creek Solar and BESS SLF	TX	65845	GOLBS	660.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	660.0
2024	10	65079	Solar Proponent LLC	IPP	Goldenrod Creek Solar and BESS SLF	TX	65845	GOLPV	660.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	660.0
2024	10	65079	Solar Proponent LLC	IPP	Hollow Branch Creek 2 Solar and BESS SLF	TX	65851	HB2BS	400.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	400.0
2024	10	65079	Solar Proponent LLC	IPP	Hollow Branch Creek 2 Solar and BESS SLF	TX	65851	HB2PV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2024	10	65079	Solar Proponent LLC	IPP	Middlebrook Creek Solar and BESS	TX	65853	MIDBS	302.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	302.9
2024	10	65079	Solar Proponent LLC	IPP	Middlebrook Creek Solar and BESS	TX	65853	MIDPV	609.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	609.1
2024	10	65179	SolarGen of South Carolina, LLC	IPP	Brogdon 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	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	65747	AB Newark (Fund 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	65742	Blue Bird Solar, LLC	IPP	Blue Bird Solar, LLC	MO	66747	BBS	139.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	139.0
2024	11	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN4	43.3	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	43.3
2024	11	65478	Gransolar Texas Fourteen, LLC	IPP	Eytcheson Solar	TX	66398	EYTCH	76.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	76.0
2024	11	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKBA	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2024	11	64941	Hecate Energy Pulaski LLC	IPP	Hecate Energy Pulaski 1	VA	65665	HEPU1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2024	11	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Tipton 2 Solar Park	IN	66937	TIPT2	2.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.7
2024	11	50123	Leeward Asset Management, LLC	IPP	Ridgely Energy Farm	TN	65445	RIGPV	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	SAHS0	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	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 Duvall Rd Microgrid, LLC	IPP	NY Beaver Dams Dix 1239 Duvall Rd Solar	NY	66523	20149	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2024	11	65092	Springwater Solar, LLC	IPP	Springwater Solar, LLC	OH	65900	SPRIN	155.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	155.0
2024	11	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	20847	Wisconsin Electric Power Co	Electric Utility	Darien Solar	WI	64534	1	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2024	11	20847	Wisconsin Electric Power Co	Electric Utility	Darien Solar	WI	64534	2	75.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	75.0
2024	12	61222	174 Power Global Corp.	IPP	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

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	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	64247	20SD 8me LLC	IPP	Rexford Solar Farm	CA	64633	20SD8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	12	64244	92JT 8me, LLC	IPP	Big Rock Solar Farm	CA	64636	92JTB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	64246	99MT 8me, LLC	IPP	Sienna Solar Farm	CA	64632	99MTB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	63004	Abundant Solar Power Inc.	IPP	Wheaton-STEU	NY	63228	11410	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2024	12	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	Steubenville Solar	OH	66657	STEUB	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	BPBA	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2024	12	63702	Barbers Point Solar, LLC	IPP	Barbers Point Solar, LLC	HI	64094	BPSOL	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2024	12	64842	Baron Winds II	IPP	Baron Winds II	NY	65513	BRNW2	113.2	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	113.2
2024	12	63793	Bear Branch Solar LLC	IPP	Bear Branch Solar	NC	64168	GEN	35.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	35.0
2024	12	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	CACHI	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0
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 Solar One, LLC	IPP	CT Airport Authority Solar One	CT	65146	VCP16	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2024	12	61818	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	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2024	12	64467	CG Pike Creek LLC	IPP	Pike Creek Wind	IL	65049	CPCW1	202.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	202.5
2024	12	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	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	169.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	169.2
2024	12	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2024	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2024	12	64389	ConnectGen Chautauqua County LLC	IPP	South Ripley Solar	NY	64911	CSRB1	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2024	12	64389	ConnectGen Chautauqua County LLC	IPP	South Ripley Solar	NY	64911	CSRS1	270.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	270.0
2024	12	56769	Consolidated Edison Development Inc.	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	127.0
2024	12	56769	Consolidated Edison Development Inc.	IPP	Switchgrass Solar, LLC	VA	66124	SSPV	70.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	70.0
2024	12	64369	Coyote Gulch Solar LLC	IPP	Coyote Gulch Solar	CO	64857	C0513	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2024	12	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	Deptford Solar One, LLC	IPP	Deptford Solar One	NJ	65147	VCP01	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2024	12	61951	Dodge County Wind, LLC	IPP	Dodge County Wind	MN	62437	WT	260.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	260.0
2024	12	64368	Dolores Canyon Solar LLC	IPP	Dolores Canyon Solar	CO	64858	C0497	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2024	12	5248	Dominion Energy Inc.	Electric Utility	Dulles Solar and Storage	VA	65043	DUST	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2024	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONR2	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2024	12	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	64689	Emery Meadow Solar Station, LLC	IPP	Emery Meadow Solar Station	ME	65366	EMSS	16.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.4
2024	12	65594	EnerSmart Storage	IPP	EnerSmart Imperial Beach BESS	CA	66551	IB192	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	65205	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	64174	FPS Cedar Creek Solar LLC	IPP	Cedar Creek Solar	DE	64543	1	114.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	114.0
2024	12	64176	FPS Potic Solar LLC	IPP	Potic Solar	NY	64541	1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2024	12	63524	Freepoint Commodities LLC	IPP	Shaftsbury Solar	VT	64064	SHAFT	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	7140	Georgia Power Co	Electric Utility	Georgia College & State University Solar	GA	63282	1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2024	12	65575	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	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT1	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT3	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT4	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT5	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2024	12	60025	Greenbacker Renewable Energy Corporation	IPP	Hogs Bay	ME	66768	694	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2024	12	65680	Hanford BESS LLC	IPP	Lead BESS 1	CA	66660	HAN	99.4	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	99.4
2024	12	65680	Hanford BESS LLC	IPP	Lead BESS 2	CA	66662	BIA	32.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	32.0
2024	12	65655	Harquahala Sun Solar Project	IPP	Harquahala Sun Solar Project	AZ	66670	HARQ1	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
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	HHB	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	9273	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	Invenergy Services LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	288.0
2024	12	49893	Invenergy 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	Invenergy Services LLC	IPP	Yum Yum Solar LLC	TN	63026	GEN1	147.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	147.0
2024	12	63703	Kahana Solar, LLC	IPP	Kahana Solar, LLC	HI	64095	KSBA	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63703	Kahana Solar, LLC	IPP	Kahana Solar, LLC	HI	64095	KSSOL	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63289	Key Capture Energy	IPP	NY2 Battery	NY	63584	NY2	169.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	169.0
2024	12	65656	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	CRAS0	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	PARS0	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	RBESS	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	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	1	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.6
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2024	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2

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	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	65678	Malaga BESS LLC	IPP	Acid BESS	CA	66659	MAL	97.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	97.0
2024	12	65671	Martin County Solar Project, LLC	IPP	Martin County Solar Project, LLC	KY	66646	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	63238	OE_ALC	IPP	AL Solar C LLC	AL	63513	OEALC	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2024	12	65816	OE_ESCL	IPP	OE_ESCL	NM	66888	OESCL	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	ORIBS	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	ORIPV	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	66155	GP01	358.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	358.0
2024	12	63599	Pure Hedge LLC	IPP	Pure Hedge LLC	CT	50736	FSS13	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2024	12	63599	Pure Hedge LLC	IPP	Pure Hedge LLC	CT	50736	FSS17	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2024	12	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
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 Ailey, LLC	IPP	SR Ailey	GA	66173	AILEY	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2024	12	65743	SR Russellville, LLC	IPP	SR Russellville	KY	66818	RUSVL	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	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	Lunis 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	Lunis Creek Solar and BESS SLF	TX	65852	LUNPV	617.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	617.1
2024	12	64783	Spanish Peaks Solar LLC	IPP	Spanish Peaks Solar	CO	62379	47301	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2024	12	65366	Speedway Solar, LLC	IPP	Speedway Solar, LLC	IN	66264	SDS	199.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	199.0
2024	12	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 Fariway Solar Project	NY	63865	Q#848	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63551	SunEast Flat Hill Solar LLC	IPP	SunEast Flat Hill Solar Project	NY	63901	Q#865	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63537	SunEast Grassy Knoll Solar LLC	IPP	SunEast Grassy Knoll Solar Project	NY	63863	Q#885	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63540	SunEast Highview Solar LLC	IPP	SunEast Highview Solar Project	NY	63866	Q#591	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	62757	SunEast Hills Solar LLC	IPP	SunEast Hills Solar Project	NY	62895	Q581	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2024	12	63543	SunEast Hilltop Solar LLC	IPP	SunEast Hilltop Solar Project	NY	63868	Q#807	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63538	SunEast Limestone Solar LLC	IPP	SunEast Limestone Solar Project	NY	63864	Q#806	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63678	SunEast Manchester Solar LLC	IPP	SunEast Manchester Solar Project	NY	64037	Q#913	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	62698	SunEast Skyline Solar LLC	IPP	SunEast Skyline Solar Project	NY	62816	Q670	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	63541	SunEast Tabletop Solar LLC	IPP	SunEast Tabletop Solar Project	NY	63867	Q#869	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	12	63536	SunEast Valley Solar LLC	IPP	SunEast Valley Solar Project	NY	63862	Q#828	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	62756	SunEast Watkins Road Solar LLC	IPP	SunEast Watkins Road Solar Project	NY	62896	Q586	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2024	12	65082	Talitha Energy Project, LLC	IPP	Talitha Energy Project, LLC	TX	65891	TALPV	131.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	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	66641	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	65427	Tidwell Prairie	IPP	Tidwell Prairie Storage 1	TX	66337	SGES1	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	58175	JWPI	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2024	12	64952	Turner Meadow Solar Station, LLC	IPP	Turner Meadow Solar Station	ME	65709	TRNR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2024	12	65777	Urban Grid Solar	IPP	Egypt Road Solar	MD	66840	EGYR1	51.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	51.1
2024	12	64657	Vacherie Solar Energy Center, LLC	IPP	Vacherie Solar Energy Center, LLC	LA	65345	VSEC	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2024	12	64545	Vesper Energy Development LLC	IPP	Axton Solar	VA	65462	AXTON	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2024	12	64545	Vesper Energy Development LLC	IPP	Hornet Solar (TX)	TX	65463	HRNET	500.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	500.0
2024	12	64515	Waterbury Solar One, LLC	IPP	Waterbury Solar One	CT	65137	VCP12	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2024	12	64789	West Memphis Solar, LLC	IPP	West Memphis Solar, LLC	AR	65482	WMEM1	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2024	12	63527	Westlands Cherry, LLC	IPP	Cherry	CA	63850	CHERY	249.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	249.7
2024	12	63528	Westlands Grape, LLC	IPP	Grape	CA	63851	GRAPE	246.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	246.4
2024	12	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	65703	Winfield Solar I, LLC	IPP	Winfield Solar	MO	66696	WINSP	162.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	162.8
2024	12	65165	ibV Energy Partners	IPP	Boulder Flats Solar	NV	65977	BF1PV	131.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	113.0
2025	1	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	54909	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	COBAL	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	66497	BHBA1	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	65500	REVWD	715.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	715.0
2025	1	6452	Florida Power & Light Co	Electric Utility	Buttonwood	FL	65920	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Fawn	FL	65919	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Fox Trail	FL	65916	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Green Pasture	FL	65918	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Hog Bay	FL	65915	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Holopaw	FL	65922	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Honeybell	FL	65921	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Redlands	FL	65914	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	6452	Florida Power & Light Co	Electric Utility	Thomas Creek	FL	65917	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	1	12796	Monongahela Power Co	Electric Utility	Marlowe Solar	WV	66899	MARS	5.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.8
2025	1	12796	Monongahela Power Co	Electric Utility	Rivesville Solar	WV	66900	RIVS	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	60910	NPLPS	5.0	Natural Gas Fired Combustion Turbine	NG	GT	(OT) Other	25.5
2025	1	64265	Notch Peak Solar LLC	IPP	Notch Peak Solar LLC	UT	64669	KOV4A	324.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	324.0
2025	1	63426	RE Bravepost LLC	IPP	RE Bravepost LLC	TX	63730	BVPST	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2025	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	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0

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	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0
2025	2	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	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	IN	66114	INRD1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	2	65088	Nighthawk Energy Storage, LLC	IPP	Nighthawk Energy Storage, LLC	CA	65889	BESS	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2025	2	18454	Tampa Electric Co	Electric Utility	Wimauma Storage	FL	66640	BESS1	40.0	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	63652	SNDHB	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	SNDHC	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	65639	Cross Town Energy Storage LLC	IPP	Cross Town Energy Storage	ME	66606	CROS1	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	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Crystal Mine	FL	65913	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Georges Lake	FL	65907	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Hendry Isles	FL	65909	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Mitchell Creek	FL	65911	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	6452	Florida Power & Light Co	Electric Utility	Norton Creek	FL	65908	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2025	3	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	PV	(T) Regulatory approvals received. Not under construction	100.0
2025	3	58489	OCI Solar Power	IPP	Bexar ESS	TX	66400	OCBEX	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	3	63612	Perquimans Solar LLC	IPP	Perquimans Solar LLC	NC	63955	PERQU	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	1	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	63088	ROONR	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	SNDHA	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	ENX11	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2025	4	64519	Deer Wood Storage, LLC	IPP	Deer Wood Storage, LLC	VA	65145	ENX12	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0
2025	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	66869	BESS1	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	5	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	SBS	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2025	5	65410	ACTX BESS Project LLC	IPP	Ash Creek BESS	TX	66391	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 Combustion Turbine	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	64436	Beaver Creek Wind III, LLC	IPP	Beaver Creek III	MT	65021	BCW3	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2025	5	64436	Beaver Creek Wind III, LLC	IPP	Beaver Creek III	MT	65021	BCW3B	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2025	5	56769	Consolidated Edison Development Inc.	IPP	Peregrine BESS 1	TX	66301	PGBS1	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	5	56769	Consolidated Edison Development Inc.	IPP	Peregrine BESS 2	TX	66302	PGBS2	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	5	62733	Cranberry Point Energy Storage LLC	IPP	Cranberry Point Energy Storage	MA	62844	NA	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	5	61060	Cypress Creek Renewables	IPP	High Top Solar	WA	65325	98936	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2025	5	65814	GGS Energy LLC	IPP	Indigo Solar & Storage	TX	66891	245BS	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2025	5	65814	GGS Energy LLC	IPP	Indigo Solar & Storage	TX	66891	IS245	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2025	5	57045	Guadalupe Power Partners LP	IPP	Guadalupe Generating Station	TX	55153	CTGP1	160.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	160.0
2025	5	57045	Guadalupe Power Partners LP	IPP	Guadalupe Generating Station	TX	55153	CTGP2	160.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	160.0
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	Invenergy Services LLC	IPP	Alle-Catt Wind Energy LLC	NY	62954	GEN1	340.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	340.0
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	G10	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	GDYES	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	RDYBS	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	Posey Solar	IN	66780	1	191.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	191.0
2025	6	64245	90FI 8me, LLC	IPP	Kingsley Solar Farm	CA	64634	90FIB	360.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	360.0
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	64217	Bald Mountain Solar LLC	IPP	Bald Mountain Solar	NY	64598	GEN1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	6	64739	Black Walnut Energy Storage LLC	IPP	Black Walnut Energy Storage LLC	CA	65396	BW1	15.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	15.0
2025	6	4254	Consumers Energy Co	Electric Utility	Muskegon Solar	MI	65572	MSP	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2025	6	58970	Ecoplexus, Inc	IPP	Grifton PV2	NC	63568	GRFT2	56.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.0

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	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	66786	ELVMT	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	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2025	6	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2025	6	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2025	6	63524	Freepoint Commodities LLC	IPP	Raceway Solar	DE	63846	RACE	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2025	6	65761	GB Arthur Kill Storage LLC	IPP	Elevate Arthur Kill	NY	66785	ELVAK	15.1	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.1
2025	6	63474	Hecate Energy Gedney Hill LLC	IPP	Hecate Energy Gedney Hill	NY	63815	GEDNY	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	6	64970	Hecate Grid Humidor Storage 1 LLC	IPP	Humidor Storage I	CA	65703	HEHUM	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	300.0
2025	6	63576	MEC North	IPP	MEC North	MI	63911	MECN	500.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	500.0
2025	6	63577	MEC South	IPP	MEC South	MI	63912	MECS	500.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	500.0
2025	6	64684	Mulligan Solar	IPP	Mulligan Solar, LLC	IL	65349	MLGA2	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	OCISS	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	OCIES	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	OCIRO	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	WILDC	90.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	90.0
2025	6	65815	Sunraycer Assets I LLC	IPP	Albatross Solar, LLC	TX	66894	ALBBA	50.4	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.4
2025	6	65815	Sunraycer Assets I LLC	IPP	Albatross Solar, LLC	TX	66894	ALBPV	101.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	101.0
2025	6	63626	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	Morgnec 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	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	1600C	2.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	2.5
2025	7	13157	City of Omaha	Commercial	Papillion Creek Wastewater	NE	55027	1600D	2.4	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	2.5
2025	7	17539	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	17539	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	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	3	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	4	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	7	58489	OCI Solar Power	IPP	OCI Lone Sun	TX	66399	OCILS	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 Eight, 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	63832	Hecate Energy Harley Hand Solar LLC	IPP	Hecate Energy Harley Hand Solar LLC	TX	64234	19936	514.0	Solar Photovoltaic	SUN	PV	(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	NEBE1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2025	8	65815	Sunraycer Assets I LLC	IPP	Midpoint Solar, LLC	TX	66897	MIDBA	52.2	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	52.2
2025	8	65815	Sunraycer Assets I LLC	IPP	Midpoint Solar, LLC	TX	66897	MIDPV	104.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	104.0
2025	8	62650	Victorville Energy Center, LLC	Industrial	Victorville Energy Center, LLC (CA)	CA	62726	1	20.1	All Other	WH	ST	(P) Planned for installation, but regulatory approvals not initiated	20.1
2025	9	60799	33UI 8me LLC	IPP	Gale 1 Solar	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2025	9	64172	Arevon Asset Management	IPP	Elliot Solar LLC	IN	64904	1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2025	9	63965	Badger Wind , LLC	IPP	Badger Wind, LLC	ND	64342	5555	252.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	252.0
2025	9	64434	Beaver Creek Wind I, LLC	IPP	Beaver Creek I	MT	65019	BCW1	50.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	50.0
2025	9	64434	Beaver Creek Wind I, LLC	IPP	Beaver Creek I	MT	65019	BCW1B	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2025	9	64437	Beaver Creek Wind IV, LLC	IPP	Beaver Creek IV	MT	65023	BCW4	50.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	50.0
2025	9	64437	Beaver Creek Wind IV, LLC	IPP	Beaver Creek IV	MT	65023	BCW4B	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2025	9	63421	Biggs Ford Solar Center, LLC	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2025	9	65102	Clear View Solar, LLC	IPP	Clear View Solar	NY	65931	3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	9	61421	LeGore Bridge Solar Center, LLC	IPP	LeGore Bridge Solar Center	MD	61796	LGBSC	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2025	9	65439	Lotus Infrastructure Global Operations, LLC	IPP	Grover Hill Wind, LLC	OH	66359	GHW	150.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	150.0
2025	9	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2025	9	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2025	9	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2025	9	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
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	3RIVS	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	56769	Consolidated Edison Development Inc.	IPP	Burt County Wind	NE	61511	BCNE	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2025	10	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	49805	Kennecott Utah Copper	Industrial	Copperton Solar Plant No. 1	UT	64427	CSP2	11.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2025	10	65105	Peeler Solar, 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	65124	Plum Nellie Wind Farm LLC	IPP	Plum Nellie Wind Farm LLC	KS	65948	PNW01	201.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	201.6
2025	10	64347	Silver Queen Wind Farm, 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	65562	TJA Off South Main St. Lanesboro, LLC	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	58113	Texas A&M, Utilities & Energy Services	Commercial	Central Utility Plant - Texas A&M	TX	58151	STG03	5.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	5.0
2025	10	65777	Urban Grid Solar	IPP	Spring Grove Solar 2	VA	66844	SPRG2	194.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2025	10	63726	Vistra Zero LLC	IPP	Forest Grove - Dodd	TX	64131	ESS1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.2
2025	10	64951	Warren Meadow Solar Station, LLC	IPP	Warren Meadow Solar Station	ME	65708	WMSS	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2025	11	65691	Branch Solar, 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	64388	ConnectGen Montgomery County LLC	IPP	Mill Point Solar	NY	64912	CMPS1	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2025	11	65116	Discovery Wind, LLC	IPP	Discovery Wind, LLC	ND	65944	DISC	400.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	400.0
2025	11	63966	Emerick Wind, LLC	IPP	Emerick Wind	NE	64344	9999	396.3	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	396.3
2025	11	61797	Hecate Energy LLC	IPP	Hecate Energy Columbia County Solar	NY	62273	HECC1	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
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	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Trinity River Solar 1	TX	66132	TXTR2	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2025	11	55983	Luminant Generation Company LLC	IPP	Jayhawk	TX	59806	SOLAR	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2025	11	65686	Samsung C&T Renewables, LLC	IPP	Conez Solar, LLC	GA	66671	CONEZ	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	11	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Pulp Processing Facility	FL	58997	G1001	20.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	20.0
2025	11	64690	Topsham Meadow Solar Station LLC	IPP	Topsham Meadow Solar Station	ME	65369	TMSS	17.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.2

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	11	64691	West Baldwin Solar Station LLC	IPP	West Baldwin Solar Station	ME	65371	WBSS	17.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.1
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	61222	174 Power Global Corp.	IPP	Boulder Solar III LLC	NV	65141	BS3ES	58.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	58.0
2025	12	63520	326FW 8me LLC	IPP	Arida Solar (Hybrid)	NV	63841	ARIDA	370.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	370.0
2025	12	63805	50LW 8me LLC	IPP	Bellefield Solar and Energy Storage Farm	CA	64210	50LWA	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	63805	50LW 8me LLC	IPP	Bellefield Solar and Energy Storage Farm	CA	64210	50LWB	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	64245	90FI 8me, LLC	IPP	Kingsley Solar Farm	CA	64634	90FI8	360.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	360.0
2025	12	64615	Antares Group Inc	IPP	Shenvalee Solar	VA	65312	SV	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2025	12	15399	Avangrid Renewables LLC	IPP	Sunset Solar	OR	65326	SS1	103.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	103.0
2025	12	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	59969	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	64475	CG Leon County II LLC	IPP	Pecan Prairie North Solar	TX	64999	CPNS1	360.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	360.0
2025	12	64410	CG Leon County LLC	IPP	Pecan Prairie South Solar	TX	64981	CPSS1	135.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	135.0
2025	12	64578	Caden Energix Piney River LLC	IPP	Caden Energix Piney River LLC	VA	65286	ENX18	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2025	12	64934	Chiquito Grid, LLC	IPP	Chiquito Grid, LLC	CA	65655	HECHQ	80.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	80.0
2025	12	64186	Chuckwalla Solar, LLC	IPP	Chuckwalla Solar, LLC	NV	64558	CHW	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	12	64186	Chuckwalla Solar, LLC	IPP	Chuckwalla Solar, LLC	NV	64558	CHW1	180.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	180.0
2025	12	64357	ConnectGen Albany County LLC	IPP	Rail Tie Wind	WY	64847	CRTW1	504.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	504.0
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	65516	ECG Utah Solar1, LLC	IPP	Utah Solar 1	UT	66426	1EUS	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2025	12	58970	Ecoplexus, Inc	IPP	Westminister NC	NC	63567	WSMTR	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
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	CA	(T) Regulatory approvals received. Not under construction	265.2
2025	12	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2025	12	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2025	12	65586	GEG PA Solar LLC	IPP	Goonies Solar Project	PA	66547	GOONS	106.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	194.0
2025	12	58880	Gallegos Wind Farm LLC	IPP	Gallegos 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	65740	Genesee Solar Energy, LLC	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	65113	Grey Fox Wind	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	65741	Hart Solar Partners, LLC	IPP	Hart Solar Project	MI	66778	HS1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	104.0
2025	12	63782	Hecate Energy Cider Solar LLC	IPP	Hecate Energy Cider Solar LLC	NY	64163	11111	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	65483	Hecate Energy Ramsey Storage, LLC	IPP	Hecate Energy Ramsey Storage	TX	66414	RMSY	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2025	12	65485	Hecate Grid East Valley Storage, LLC	IPP	Hecate Grid East Valley Storage	TX	66411	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	HBBSF	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	Horsepen Branch Solar	IPP	Horsepen Branch Solar	VA	66695	HRSPN	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 I Solar Project	CA	66678	IPAR1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2025	12	63137	Idemitsu Renewables	IPP	Azalea (CA)	CA	66890	AZAL	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2025	12	49893	Invenergy Services LLC	IPP	Crescent Valley Solar	NV	62888	GEN1	149.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	149.0
2025	12	49893	Invenergy Services LLC	IPP	Horseshoe Solar Energy	NY	63096	GEN1	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2025	12	49893	Invenergy Services LLC	IPP	Lovelock Solar	NV	62934	GEN1	190.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	190.0
2025	12	63289	Key Capture Energy	IPP	KCE NY 10, LLC	NY	66682	NY10	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2025	12	63289	Key Capture Energy	IPP	KCE NY 29, LLC	NY	66862	NY29	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2025	12	63289	Key Capture Energy	IPP	TX 14 Venus Mill Storage	TX	65788	TX14	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2025	12	65739	Lake Iris Solar, LLC	IPP	Lake Iris Solar Project	MI	66745	LIS1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	107.7
2025	12	50123	Leeward Asset Management, LLC	IPP	Barilla Solar	TX	58710	BARBA	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	INMA1	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	Sycamore Trail Solar	PA	66196	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	MMTHC	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	MMTHS	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	63217	Obsidian Solar Center LLC	IPP	Obsidian Solar Center	OR	63488	OBSLR	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2025	12	63463	Palomino Solar, LLC	IPP	Palomino Solar	OH	63784	PLMNO	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	EGSB	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	EGSS	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.1
2025	12	65144	Samsung Solar Energy 2, LLC	IPP	Gaia Hybrid	TX	66342	GAIAB	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	GAIAS	152.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	152.7
2025	12	65343	Sculpin Solar LLC	IPP	Sculpin Solar	IN	66238	1SPS	180.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	180.0
2025	12	63954	Shepherd's Run Solar	IPP	Shepherd's Run Solar	NY	64188	PV	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2025	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCBAT	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCSOL	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2025	12	65079	Solar Proponent LLC	IPP	Clear Fork Creek Solar and BESS SLF	TX	65842	CFCBS	600.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	600.0
2025	12	65079	Solar Proponent LLC	IPP	Clear Fork Creek Solar and BESS SLF	TX	65842	CFCPV	600.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	600.0
2025	12	65079	Solar Proponent LLC	IPP	Hollow Branch Creek 1 Solar	TX	65846	HB1PV	700.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	700.0
2025	12	65561	TJA 540R Main St. Acushnet, LLC	IPP	MA Acushnet 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. Acushnet, LLC	IPP	MA Acushnet 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	Fairview Solar (AR)	AR	66851	FAIR1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2025	12	60599	Washington Solar, LLC	IPP	Washington Solar	NC	60948	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2025	12	64354	Wilkes Solar, LLC	IPP	Wilkes Solar, LLC	NC	64850	WS	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2026	1	65384	Cartier Energy, LLC	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN5	5.4	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	5.5
2026	1	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	Coati Solar, LLC	IPP	Coati Solar, LLC	TX	66693	COAT	285.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	285.0
2026	1	65699	Coati Solar, LLC	IPP	Coati Solar, LLC	TX	66693	COATI	140.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	140.0
2026	1	5248	Dominion Energy Inc.	Electric Utility	Dulles Solar and Storage	VA	65043	DUSO	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
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	65885	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Kayak	FL	65888	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Long Creek	FL	65906	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5

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	1	6452	Florida Power & Light Co	Electric Utility	Mare Branch	FL	65905	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	North Orange	FL	65883	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Price Creek	FL	65887	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	6452	Florida Power & Light Co	Electric Utility	Tenmile Creek	FL	65886	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2026	1	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	49893	Invenergy Services LLC	IPP	Canisteo Wind Farm	NY	62947	GEN1	290.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	290.7
2026	1	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2026	1	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2026	1	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI03	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2026	1	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Jones City 2 Solar	TX	66893	TXJC2	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	66870	DAVS	11.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	11.5
2026	2	65092	Springwater Solar, LLC	IPP	Springwater Solar, LLC	OH	65900	SPRI2	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	INCV1	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	Dominion Energy Inc.	Electric Utility	Moon Corner Solar	VA	66313	MOCO	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0
2026	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	4	444.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	450.0
2026	4	64776	Wolf Pit Branch Solar, LLC	IPP	Wolf Pit Branch Solar, LLC	SC	65437	PGB38	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	65689	Alfred Oaks Solar, LLC	IPP	Alfred Oaks Solar, LLC	NY	66675	ALOAK	115.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	115.2
2026	5	65689	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	56769	Consolidated Edison Development Inc.	IPP	Uvalde Solar 1	TX	66306	UVPV1	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	64848	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	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0	All Other	OTH	CC	(T) Regulatory approvals received. Not under construction	50.0
2026	6	63465	Candela Renewables, LLC	IPP	Rough Hat	NV	63782	RH1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2026	6	63465	Candela Renewables, LLC	IPP	Rough Hat 2	NV	63783	RH2	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2026	6	65384	Cartier Energy, LLC	Commercial	Hartford Hospital Cogeneration	CT	52061	GEN6	6.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	6.0
2026	6	61718	Chapman Solar	IPP	Chapman Solar	SC	62186	28	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2026	6	61719	Clark Solar	IPP	Clark Solar	SC	62187	29	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2026	6	61720	Colleton Solar	IPP	Colleton Solar	SC	62188	30	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2026	6	61721	Collins Farm Solar	IPP	Collins Farm Solar	SC	62189	31	5.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.4
2026	6	61722	Crossroads Solar	IPP	Crossroads Solar	SC	62190	32	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
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	63162	OAKPV	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2026	6	55937	Entergy 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	Entergy 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	Entergy 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	61735	Foreman Solar	IPP	Foreman Solar	SC	62215	39	6.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.4
2026	6	61737	GEB Solar	IPP	GEB Solar	SC	62217	40	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2026	6	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	Holliday Solar I	IPP	Holliday 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 LLC	CA	65398	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	61789	McClain Solar	IPP	McClain Solar	SC	62278	56	17.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	17.3
2026	6	61791	Melsam Solar	IPP	Melsam Solar	SC	62280	58	60.0	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	HAU12	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	66924	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	66923	SZW-S	2,426.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	2,426.4
2026	6	65764	Pier S Energy Storage LLC	IPP	Elevate Pier S	CA	66787	ELVPS	70.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	70.0
2026	6	61805	Pruger Solar II	IPP	Pruger Solar II	SC	62293	64	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2026	6	61807	Quest Solar	IPP	Quest Solar	SC	62299	66	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2026	6	61808	Rollins Solar	IPP	Rollins Solar	SC	62295	67	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	61833	Southard Solar	IPP	Southard Solar	SC	62312	76	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2026	6	61834	Stamey Solar	IPP	Stamey Solar	SC	62313	77	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2026	6	65815	Sunraycer 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	Sunraycer 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	12869	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	12869	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	12869	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	12869	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	OHLBS	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	65144	Samsung Solar Energy 2, LLC	IPP	Ursa Solar, LLC	WI	65964	URSA	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2026	8	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	(T) Regulatory approvals received. 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	66922	59957	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2026	9	65470	Lock+ Hydro Friends Fund XLII, LLC	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
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	Brenneman Solar LLC	IPP	Brenneman 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	HOLY	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	57622	GEN1	205.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	205.2
2026	10	65105	Peeler Solar, LLC	IPP	Peeler Solar, LLC	TX	65932	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	Bellefield 2 Solar & Energy Storage Farm	CA	64209	26SBA	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2026	11	63806	26SB 8me LLC	IPP	Bellefield 2 Solar & Energy Storage Farm	CA	64209	26SBB	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2026	11	65455	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	65493	Navajo Transitional Energy Company	Electric Utility	NTEC Gas Plant	NM	66478	GEN3	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	BB1	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	WNDG2	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	Icebreaker 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	Icebreaker 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	Icebreaker 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	Icebreaker 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	Icebreaker 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	Icebreaker 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	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	5	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	6	0.6	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.6
2026	12	64800	Nolin Hills Wind, LLC	IPP	Nolin Hills	OR	60070	GEN2	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2026	12	56215	RWE Renewables Americas, LLC	IPP	Pinckard Solar	AL	62787	PCKND	79.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	85.1
2026	12	63721	Skipjack Offshore Energy, LLC	IPP	Skipjack Wind Farm	MD	64083	SJW01	120.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	120.0
2026	12	63721	Skipjack Offshore Energy, LLC	IPP	Skipjack Wind Farm Phase 2	MD	65388	SJW02	846.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	846.0
2026	12	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
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	Tri Global Energy, LLC	IPP	Water Valley Wind Energy	TX	62846	WWE1	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2026	12	65777	Urban Grid Solar	IPP	Hillsboro Solar 3	AL	66852	HILL3	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2026	12	65777	Urban Grid Solar	IPP	Porter Mill Solar	MD	66854	PORM1	46.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	46.0
2027	1	1182	BASF Corporation	Industrial	Geismar	LA	10319	GEN4	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	45.0
2027	1	1182	BASF Corporation	Industrial	Geismar	LA	10319	GEN5	25.0	Natural Gas Steam Turbine	NG	ST	(P) Planned for installation, but regulatory approvals not initiated	25.0
2027	1	5248	Dominion Energy Inc.	Electric Utility	Coastal Virginia Offshore Wind (CVOW) commercial project	VA	64550	CVOWC	1,265.0	Offshore Wind Turbine	WND	WS	(T) Regulatory approvals received. Not under construction	2,640.0
2027	3	65686	Samsung C&T Renewables, LLC	IPP	Stark Solar, LLC	OH	66672	AG239	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	60692	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	HCCT1	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	30PNA	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	30PNB	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	58597	Enviromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2027	6	64514	Royalston Solar One, LLC	IPP	Royalston Solar One	MA	65136	VCP04	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2027	6	64514	Royalston Solar One, LLC	IPP	Royalston Solar One	MA	65136	VCPS1	2.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.5
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	59686	Coronado Power Ventures LLC	IPP	Aegle Power	TX	59924	CTG-1	430.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	430.0
2027	7	59686	Coronado Power Ventures LLC	IPP	Aegle Power	TX	59924	CTG-2	430.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	430.0
2027	7	59686	Coronado Power Ventures LLC	IPP	Aegle Power	TX	59924	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	Whale 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	Whale 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	Whale 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	66858	SPRV2	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	Tracy Solar Energy Center	NY	65051	TSEC	119.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	119.0
2027	11	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA1	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
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	5.0	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	EMPIR	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	BZES	195.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	195.0
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

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)
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	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6
2027	12	50123	Leeward Asset Management, LLC	IPP	Rose Gold Solar	IN	65471	RGS23	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2027	12	65812	Lumberton PV I, LLC	IPP	Lumberton PV I, LLC	TX	66904	LBTN	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2027	12	61331	Popular Camp Wind Farm LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2027	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2027	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2027	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-C	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2027	12	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA2	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
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	Sunraycer 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	Sunraycer 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	1	65688	Cold Creek Solar, 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	64067	AUBPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2028	3	63701	BD Solar Lewiston Junction LLC	IPP	Lewiston Jn PV - BD Solar Lewiston Jn LLC	ME	64071	LJNPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2028	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	4.0	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	OCS	500.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	500.0
2028	6	13902	NorthWestern Energy (MT Hydro)	Electric Utility	Hauser	MT	2185	HAU9	3.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2028	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 Intrepid 1 LLC	IPP	Hecate Grid Intrepid	NY	66911	HGIN1	250.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	250.0
2028	7	65821	Hecate Grid Intrepid 1 LLC	IPP	Hecate Grid Intrepid	NY	66911	HGIN6	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2028	7	65690	Premium Energy Holdings	IPP	Haiwee 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	Haiwee 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	Haiwee Pumped Storage Project	CA	66686	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	Haiwee 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
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	Opekiska L&D Hydroelectric Project	WV	62386	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	Opekiska L&D Hydroelectric Project	WV	62386	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	Devola L&D Hydroelectric Project	OH	62435	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2028	10	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
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&D4 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	Devola L&D Hydroelectric Project	OH	62435	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2028	11	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
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	Malta L&D Hydroelectric Project	OH	62428	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2028	11	61906	Rye Development	IPP	Malta L&D Hydroelectric Project	OH	62428	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
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&D4 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	Collard Holdings, LLC	IPP	Collard Holdings Solar	NC	62317	PV	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2028	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	750.0
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	Aiya Solar CEI, LLC	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2029	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	750.0
2029	12	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0
2030	1	55983	Luminant Generation Company LLC	IPP	Alira	TX	63193	UNIT1	222.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	222.8
2030	3	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	72.7	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	77.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2030	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	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
2023	5	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT11	16.4	Natural Gas Fired Combustion Turbine	NG	GT
2023	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	1575	1.6	Conventional Hydroelectric	WAT	HY
2023	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	500	0.5	Conventional Hydroelectric	WAT	HY
2023	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
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	56785	The Westervelt Co	Industrial	Westervelt Moundville Cogen	AL	57467	TG1	8.2	Wood/Wood Waste Biomass	WDS	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	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	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	1	162.0	Conventional Steam Coal	BIT	ST
2023	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	5	259.0	Conventional Steam Coal	BIT	ST
2023	12	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	GT1	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT2	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT3	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT4	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT5	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT6	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT7	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT8	15.1	Petroleum Liquids	DFO	GT
2023	12	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	GT9	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	63843	Ormond Beach Power, LLC	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2024	1	63843	Ormond Beach Power, LLC	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
2024	1	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	1	626.0	Conventional Steam Coal	BIT	ST
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE10	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE11	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE12	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE13	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GE14	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN5	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN6	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN7	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN8	0.8	Landfill Gas	LFG	IC
2024	1	17283	Seneca Energy II	IPP	Seneca Energy	NY	54782	GEN9	0.8	Landfill Gas	LFG	IC
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	5	13143	Board of Water Electric & Communications	Electric Utility	Muscatine Plant #1	IA	1167	8A	14.5	Conventional Steam Coal	SUB	ST
2024	5	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	1	211.6	Natural Gas Steam Turbine	NG	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2024	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	Carlls Corner	NJ	2379	CA1	37.6	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	56606	Calpine New Jersey Generation LLC	IPP	Carlls 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
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G11	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G12	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G13	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G14	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G15	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	G16	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT1	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT2	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT3	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT4	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT5	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT6	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT7	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT8	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	GT9	47.1	Natural Gas Fired Combustion Turbine	NG	GT
2024	9	17539	Dominion Energy South Carolina, Inc	Electric Utility	Coit GT	SC	3281	1	14.0	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	54364	L2G	2.0	Petroleum Liquids	DFO	IC
2024	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2024	12	56211	Evergy Missouri West	Electric Utility	Lake Road (MO)	MO	2098	4	94.6	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	105.0	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2024	12	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2025	1	17568	Cooperative Energy	Electric Utility	Moselle	MS	2070	3	59.0	Natural Gas Steam Turbine	NG	ST
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2025	1	15474	Public Service Co of Oklahoma	Electric Utility	Weleetka	OK	2966	4	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	1	15474	Public Service Co of Oklahoma	Electric Utility	Weleetka	OK	2966	5	53.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	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

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	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
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	Dynegy Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	889	1	576.0	Conventional Steam Coal	SUB	ST
2025	12	5517	Dynegy Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	889	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	6085	17	361.0	Conventional Steam Coal	BIT	ST
2025	12	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	18	361.0	Conventional Steam Coal	BIT	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2026	6	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	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT1	17.5	Natural Gas Fired Combustion Turbine	NG	GT
2026	10	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT2	17.5	Natural Gas Fired Combustion Turbine	NG	GT
2026	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	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HH	0.5	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HII	0.4	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HJC	0.2	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	UNIT1	2.7	Solar Photovoltaic	SUN	PV
2027	3	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	54364	L1G	2.0	Petroleum Liquids	DFO	IC
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED01	140.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED02	140.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED03	170.0	Natural Gas Fired Combined Cycle	NG	CA
2027	6	64726	Rivers Electric, LLC	IPP	Mill Pond Hydro	NY	65399	U2	0.5	Conventional Hydroelectric	WAT	HY
2027	8	61364	Lockheed Martin RMS Syracuse	Industrial	Lockheed Martin RMS Syracuse	NY	61739	SYR1	1.0	Batteries	MWH	BA
2027	12	56570	Coleto Creek Power LP	IPP	Coleto Creek	TX	6178	1	655.0	Conventional Steam Coal	SUB	ST
2027	12	59918	Dynegy Kincaid Generation	IPP	Kincaid Generation LLC	IL	876	1	554.0	Conventional Steam Coal	SUB	ST
2027	12	59918	Dynegy 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

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	12686	Mississippi Power Co	Electric Utility	Victor J Daniel Jr	MS	6073	1	502.0	Conventional Steam Coal	SUB	ST
2027	12	12686	Mississippi Power Co	Electric Utility	Victor J Daniel Jr	MS	6073	2	502.0	Conventional Steam Coal	SUB	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	1	1.8	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	2	1.8	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	3	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	4	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	5	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	6	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	7	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	8	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	1	93.0	Conventional Steam Coal	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	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

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	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	WND	WT
2029	12	3989	City of Colorado Springs - (CO)	Electric Utility	Ray D Nixon	CO	8219	1	208.0	Conventional Steam Coal	SUB	ST
2029	12	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	1	831.0	Conventional Steam Coal	SUB	ST
2029	12	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	2	858.0	Conventional Steam Coal	SUB	ST
2029	12	14354	PacifiCorp	Electric Utility	Naughton	WY	4162	3	247.0	Natural Gas Steam Turbine	NG	ST
2029	12	15143	Platte River Power Authority	Electric Utility	Rawhide	CO	6761	1	280.0	Conventional Steam Coal	SUB	ST
2029	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	3	448.0	Conventional Steam Coal	SUB	ST
2030	5	8973	Town of Hudson - (MA)	Electric Utility	Cherry Street	MA	9038	10	1.9	Natural Gas Internal Combustion Engine	NG	IC
2030	5	8973	Town of Hudson - (MA)	Electric Utility	Cherry Street	MA	9038	11	1.9	Natural Gas Internal Combustion Engine	NG	IC
2030	6	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 Fclts 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	57868	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	BIT	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

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	1	64.0	Natural Gas Steam Turbine	NG	ST
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	2	69.0	Natural Gas Steam Turbine	NG	ST
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	3	104.5	Natural Gas Steam Turbine	NG	ST
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	4	39.6	Natural Gas Fired Combustion Turbine	NG	GT
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	5	39.6	Natural Gas Fired Combustion Turbine	NG	GT
2032	12	14354	PacifiCorp	Electric Utility	Gadsby	UT	3648	6	36.9	Natural Gas Fired Combustion Turbine	NG	GT
2032	12	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
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	1	532.0	Conventional Steam Coal	SUB	ST
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	2	535.0	Conventional Steam Coal	SUB	ST
2038	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	2	339.0	Conventional Steam Coal	SUB	ST
2039	10	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	2.6	Solar Photovoltaic	SUN	PV
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2049	4	61612	Panda Solar NC 1, LLC	IPP	Panda Solar NC 1, LLC	NC	62089	20002	1.0	Solar Photovoltaic	SUN	PV
2049	4	61655	Panda Solar NC 2, LLC	IPP	Panda Solar NC 2, LLC	NC	62120	20003	2.0	Solar Photovoltaic	SUN	PV
2049	6	61663	Panda Solar NC 10, LLC	IPP	Panda Solar NC 10, LLC	NC	62128	20031	2.0	Solar Photovoltaic	SUN	PV
2049	6	61664	Panda Solar NC 11, LLC	IPP	Panda Solar NC 11, LLC	NC	62129	20032	2.0	Solar Photovoltaic	SUN	PV
2049	6	61656	Panda Solar NC 3, LLC	IPP	Panda Solar NC 3, LLC	NC	62121	20011	2.0	Solar Photovoltaic	SUN	PV

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
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
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

	Coal		Natural Gas								Petroleum					
Year/Month			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	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	203,958.4	47.8%	283,361.4	56.7%	131,906.2	13.7%	73,313.6	13.6%	5,317.5	18.8%	7,625.0	15.7%	13,311.2	2.2%	5,496.9	2.0%
Year 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	208,882.2	57.2%	280,906.0	56.3%	131,650.0	11.5%	73,310.9	11.2%	5,244.8	16.8%	8,155.3	19.4%	13,556.8	1.7%	5,498.9	1.9%
February	208,822.7	51.7%	280,906.0	53.0%	131,736.0	10.0%	73,310.9	9.2%	5,244.8	15.3%	8,155.3	17.2%	13,556.8	0.9%	5,498.9	1.7%
March	207,630.7	40.0%	281,259.2	46.6%	131,694.5	8.7%	72,736.9	7.4%	5,275.4	13.0%	8,155.3	10.8%	13,522.8	0.9%	5,490.1	1.5%
April	207,185.7	37.6%	281,466.3	44.3%	131,754.0	10.2%	72,736.9	9.0%	5,276.9	14.6%	8,155.3	11.0%	13,396.1	1.0%	5,490.1	1.8%
May	205,661.7	41.7%	280,915.1	49.9%	131,754.0	13.1%	73,526.9	12.8%	5,334.9	15.3%	7,365.3	16.3%	13,370.9	1.6%	5,490.1	2.2%
June	202,905.7	52.0%	283,322.0	61.6%	131,896.8	17.6%	73,522.9	17.7%	5,337.3	20.4%	7,365.3	15.6%	13,224.1	2.4%	5,496.6	2.2%
July	202,923.7	59.3%	284,418.0	70.5%	132,043.3	22.4%	73,522.9	25.2%	5,338.5	25.8%	7,365.3	12.2%	13,224.1	3.5%	5,498.4	1.9%
August	201,975.7	58.4%	285,502.0	72.2%	131,804.3	20.3%	73,522.9	20.7%	5,353.5	27.2%	7,365.3	14.4%	13,224.1	3.0%	5,498.4	2.6%
Sept	201,211.7	46.1%	285,432.0	63.7%	132,014.2	14.6%	73,386.9	15.7%	5,349.6	22.3%	7,365.3	16.5%	13,198.1	1.9%	5,493.0	2.4%
October	201,206.7	37.9%	285,432.0	52.9%	132,105.3	10.7%	73,386.9	11.8%	5,348.6	17.1%	7,365.3	15.3%	13,180.1	1.4%	5,496.9	2.3%
November	201,206.7	40.3%	285,123.9	52.0%	132,137.2	11.8%	73,727.7	11.1%	5,346.5	17.4%	7,365.3	18.8%	13,152.4	1.3%	5,505.7	1.6%
December	198,251.7	50.9%	285,477.9	57.0%	132,274.3	13.6%	73,073.7	10.6%	5,353.5	19.8%	7,365.3	21.8%	13,143.4	6.1%	5,505.7	2.0%
Year 2023																
January	195,578.4	42.8%	285,146.0	57.1%	132,399.6	9.4%	74,502.3	7.7%	5,339.2	17.6%	7,364.6	9.3%	13,084.9	1.1%	5,509.6	1.9%
February	195,543.8	36.4%	285,437.6	57.4%	132,452.1	9.1%	74,531.9	8.5%	5,364.4	16.9%	7,364.6	11.3%	13,077.7	1.1%	5,565.4	1.5%
March	194,569.9	35.3%	286,961.7	53.4%	132,192.2	10.2%	73,713.6	9.5%	5,517.5	18.6%	8,132.1	9.1%	13,284.9	1.1%	5,466.9	2.2%
April	192,385.0	30.1%	288,269.8	48.0%	131,567.8	12.3%	72,999.6	12.5%	5,563.0	17.2%	8,597.1	9.4%	13,774.1	1.9%	5,433.1	2.5%
May	186,253.0	32.2%	290,288.7	52.6%	131,089.3	13.9%	76,708.2	15.6%	5,563.9	16.4%	8,596.4	7.2%	14,185.5	2.2%	5,431.9	2.3%
June	184,078.4	44.0%	292,769.4	62.5%	131,439.5	17.3%	76,044.7	21.4%	5,569.9	21.2%	9,029.0	9.5%	13,896.4	2.5%	5,412.7	2.4%
July	183,431.2	57.8%	293,855.3	72.6%	130,875.8	23.1%	76,041.4	31.2%	5,569.9	28.3%	9,029.0	13.8%	14,505.2	3.3%	5,426.5	2.3%

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

	Geothermal		Hydroelectric		Nuclear		Other Biomass		Other Gas		Solar				Wind		Wood	
Year/Month											Photovoltaic		Thermal					
	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	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%	107,387.7	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	2,622.6	73.4%	79,965.6	37.4%	95,075.6	92.6%	4,431.7	61.2%	1,883.7	61.7%	64,219.2	24.8%	1,480.0	23.1%	136,339.1	36.1%	8,002.3	59.1%
Year 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	88.7%	4,506.4	64.6%	1,913.0	62.7%	47,653.4	25.0%	1,739.9	19.9%	119,963.2	43.0%	7,943.1	60.6%
April	2,571.9	68.3%	79,840.2	33.7%	95,546.4	82.1%	4,506.4	63.5%	1,913.0	55.7%	49,269.7	29.4%	1,739.9	26.7%	121,112.1	40.7%	7,943.1	56.7%
May	2,596.7	68.5%	79,845.4	39.2%	95,546.4	89.2%	4,495.2	63.3%	1,913.0	57.9%	49,785.1	31.8%	1,739.9	30.2%	121,846.4	36.5%	7,943.1	57.4%
June	2,596.7	67.9%	79,882.3	40.8%	95,546.4	96.0%	4,484.2	64.1%	1,913.0	64.4%	50,448.9	31.9%	1,739.9	25.8%	123,202.6	29.5%	7,943.1	61.2%
July	2,596.7	69.5%	79,909.8	37.2%	95,546.4	96.8%	4,485.3	63.5%	1,913.0	65.2%	51,174.9	30.5%	1,559.9	22.3%	124,851.0	23.1%	7,927.9	61.5%
August	2,596.7	68.8%	79,907.4	34.3%	95,546.4	97.7%	4,484.7	62.2%	1,888.0	63.1%	52,136.1	29.0%	1,559.9	29.6%	126,118.8	28.8%	7,927.9	62.7%
Sept	2,596.7	71.4%	79,907.4	29.6%	95,546.4	93.8%	4,473.4	62.1%	1,888.0	60.7%	53,619.6	27.5%	1,559.9	26.8%	126,457.2	31.7%	7,927.9	60.2%
October	2,596.7	67.7%	79,909.9	28.8%	95,546.4	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	2,596.7	80.4%	79,944.3	44.1%	95,512.1	99.3%	4,470.4	61.8%	1,884.2	61.2%	60,160.0	17.6%	1,480.0	11.3%	132,563.9	38.3%	8,012.6	60.2%
February	2,596.7	74.4%	79,948.4	42.6%	95,512.1	96.4%	4,469.0	61.0%	1,884.2	55.8%	61,160.7	22.0%	1,480.0	15.9%	133,600.3	42.2%	8,012.6	63.4%
March	2,596.7	70.6%	79,958.4	42.6%	95,512.1	88.9%	4,469.0	60.0%	1,884.2	55.6%	61,483.9	25.0%	1,480.0	23.1%	133,861.7	43.0%	8,012.6	58.1%
April	2,596.7	70.2%	79,962.5	34.0%	95,512.1	80.4%	4,461.5	60.8%	1,884.2	55.1%	62,434.9	28.8%	1,480.0	30.1%	134,972.6	46.6%	8,012.6	54.1%
May	2,613.7	70.6%	79,968.1	38.8%	95,533.1	89.2%	4,458.7	61.0%	1,884.2	59.7%	62,885.5	31.2%	1,480.0	33.5%	136,883.4	40.8%	7,994.9	57.1%
June	2,613.7	72.0%	79,970.6	46.7%	94,764.6	96.3%	4,458.7	63.4%	1,884.2	65.1%	63,578.3	33.4%	1,480.0	34.9%	137,099.6	33.7%	7,989.1	62.3%
July	2,613.7	73.2%	79,970.6	40.7%	94,764.6	97.7%	4,403.4	63.2%	1,884.2	69.7%	64,804.3	31.4%	1,480.0	26.3%	137,483.0	28.6%	7,989.1	64.4%
August	2,630.7	73.0%	79,970.6	36.5%	94,764.6	97.7%	4,407.3	61.6%	1,884.2	61.7%	65,389.0	28.5%	1,480.0	25.3%	137,559.5	23.8%	8,001.1	62.2%
Sept	2,652.6	73.5%	79,970.6	29.2%	94,764.6	93.4%	4,398.7	60.0%	1,884.2	63.5%	66,090.2	27.1%	1,480.0	26.7%	137,559.2	27.1%	8,001.1	56.1%
October	2,652.6	67.6%	79,971.1	24.6%	94,764.6	83.6%	4,395.5	60.0%	1,884.2	59.8%	66,855.1	23.6%	1,480.0	26.4%	137,559.2	31.8%	8,001.1	51.3%
November	2,652.6	76.3%	79,971.1	32.6%	94,764.6	90.9%	4,395.5	60.6%	1,884.2	66.8%	67,381.0	16.8%	1,480.0	14.1%	137,559.2	41.7%	8,001.1	59.5%
December	2,652.6	78.6%	79,979.6	36.8%	94,764.6	98.0%	4,395.5	60.8%	1,878.9	65.7%	68,196.0	13.1%	1,480.0	9.0%	139,162.2	37.5%	8,001.1	60.7%
Year 2023																		
January	2,689.4	70.0%	80,013.3	38.6%	94,768.3	100.5%	4,336.1	61.7%	1,879.9	65.1%	70,821.1	14.9%	1,480.0	7.7%	141,339.0	37.1%	8,009.2	59.7%
February	2,689.4	72.3%	80,065.4	35.9%	94,768.3	95.5%	4,295.5	60.1%	1,879.9	67.6%	72,512.7	18.7%	1,480.0	11.0%	141,548.9	43.9%	7,962.7	57.9%
March	2,648.6	68.8%	80,061.7	34.6%	94,768.3	89.1%	4,295.7	58.5%	1,808.9	62.6%	73,089.6	21.8%	1,480.0	14.0%	142,208.1	41.4%	8,020.6	53.3%
April	2,648.6	71.0%	80,077.7	31.1%	94,767.4	82.8%	4,295.4	54.6%	1,728.2	45.6%	73,691.4	27.0%	1,480.0	27.9%	142,624.0	41.5%	7,989.0	48.2%
May	2,673.6	68.3%	80,052.6	47.0%	94,767.4	87.2%	4,295.4	60.3%	1,698.2	55.6%	74,465.7	29.5%	1,480.0	27.5%	143,624.2	29.8%	7,897.5	54.4%
June	2,673.6	65.5%	80,052.0	34.1%	94,767.4	95.2%	4,295.4	61.5%	1,698.2	56.7%	75,659.9	31.2%	1,480.0	34.6%	144,365.5	26.4%	7,777.9	53.6%
July	2,673.6	66.7%	80,056.0	36.1%	94,658.9	99.1%	4,293.6	60.7%	1,725.1	63.7%	77,302.8	31.4%	1,480.0	35.0%	144,618.5	25.7%	7,778.8	54.9%

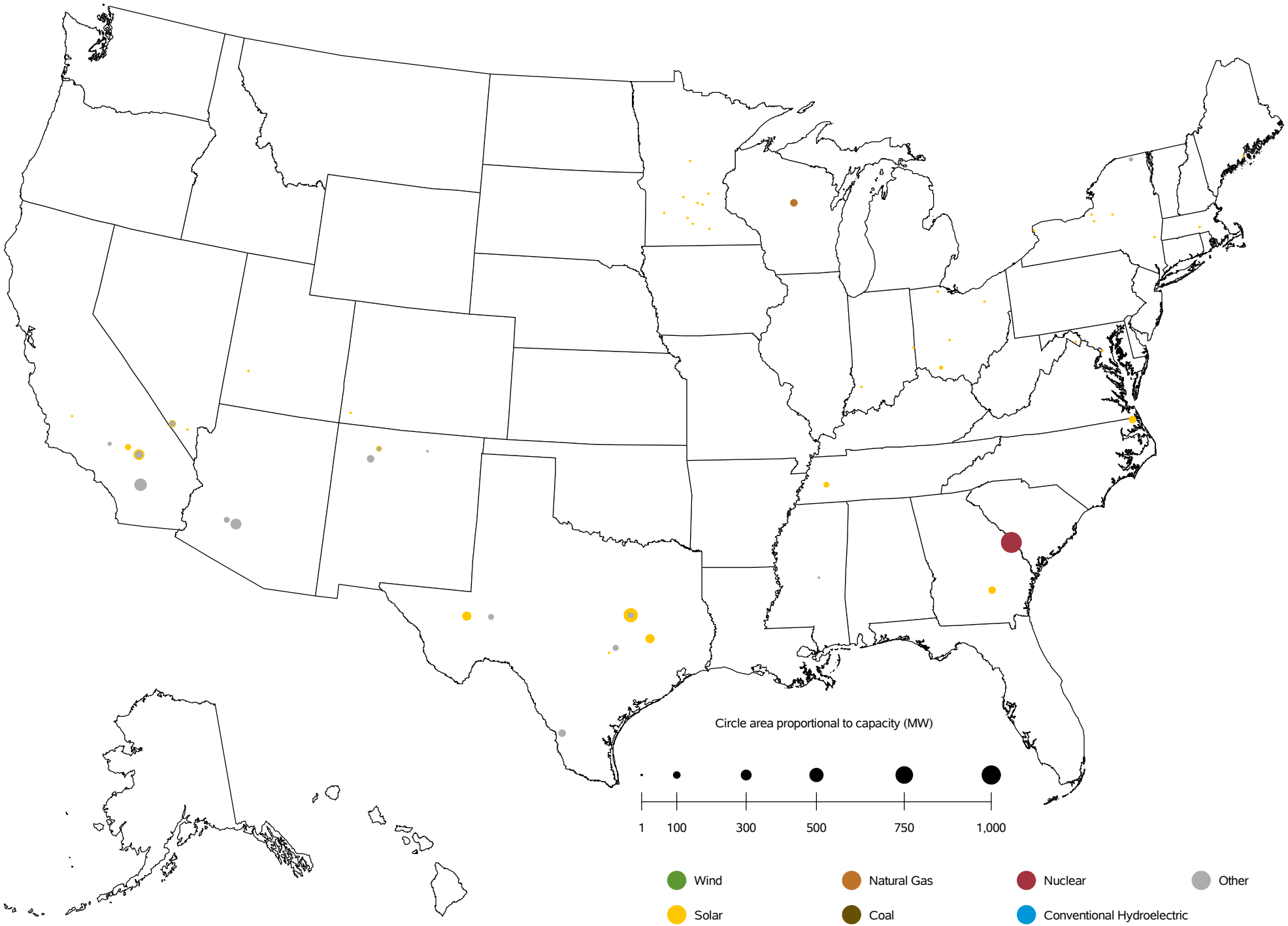
Values for 2021 and prior years are final. Values for 2022 and 2023 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity 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

	Battery		Pumped Storage	
Year/Month	Time Adjusted Capacity (MW)	Usage Factor	Time Adjusted Capacity (MW)	Usage Factor
Annual Data				
2013	126.7	0.7%	22,389.3	9.8%
2014	155.1	1.7%	22,477.9	10.2%
2015	206.8	3.6%	22,568.9	10.2%
2016	423.0	3.8%	22,752.7	11.2%
2017	632.8	6.8%	22,791.7	11.4%
2018	713.6	5.2%	22,815.4	10.8%
2019	949.8	5.4%	22,754.7	10.4%
2020	1,210.3	5.2%	22,939.6	10.5%
2021	2,627.6	6.1%	23,007.7	10.2%
2022	6,424.7	5.0%	23,039.5	11.1%
Year 2021				
January	1,505.6	4.2%	23,007.7	8.1%
February	1,640.0	5.6%	23,007.7	9.0%
March	1,653.0	5.5%	23,007.7	7.4%
April	1,780.4	5.1%	23,007.7	7.2%
May	1,958.8	6.1%	23,007.7	8.7%
June	2,499.4	6.4%	23,007.7	12.4%
July	2,777.0	6.5%	23,007.7	15.2%
August	3,043.5	7.4%	23,007.7	15.9%
Sept	3,110.9	7.1%	23,007.7	12.8%
October	3,304.5	6.0%	23,007.7	9.7%
November	3,765.6	6.2%	23,007.7	7.7%
December	4,418.2	5.8%	23,007.7	8.6%
Year 2022				
January	4,780.1	3.9%	23,019.0	9.5%
February	4,850.4	4.9%	23,019.0	8.9%
March	4,922.9	4.3%	23,019.0	9.1%
April	5,159.2	4.7%	23,019.0	7.3%
May	5,900.3	4.9%	23,049.5	10.9%
June	5,933.7	5.7%	23,049.5	14.8%
July	6,422.8	5.4%	23,049.5	15.9%
August	6,810.4	5.0%	23,049.5	16.4%
Sept	7,329.1	4.8%	23,049.5	13.2%
October	7,817.6	5.4%	23,049.5	8.4%
November	8,495.6	5.4%	23,049.5	9.2%
December	8,561.3	5.3%	23,049.5	9.6%
Year 2023				
January	8,829.6	5.7%	23,076.9	9.2%
February	9,030.3	5.3%	23,076.9	9.6%
March	9,117.3	5.9%	23,156.9	9.1%
April	9,385.3	5.7%	23,166.5	8.6%
May	9,568.0	5.2%	23,166.5	10.8%
June	9,708.1	5.2%	23,166.5	13.7%
July	10,769.2	5.5%	23,166.5	15.8%

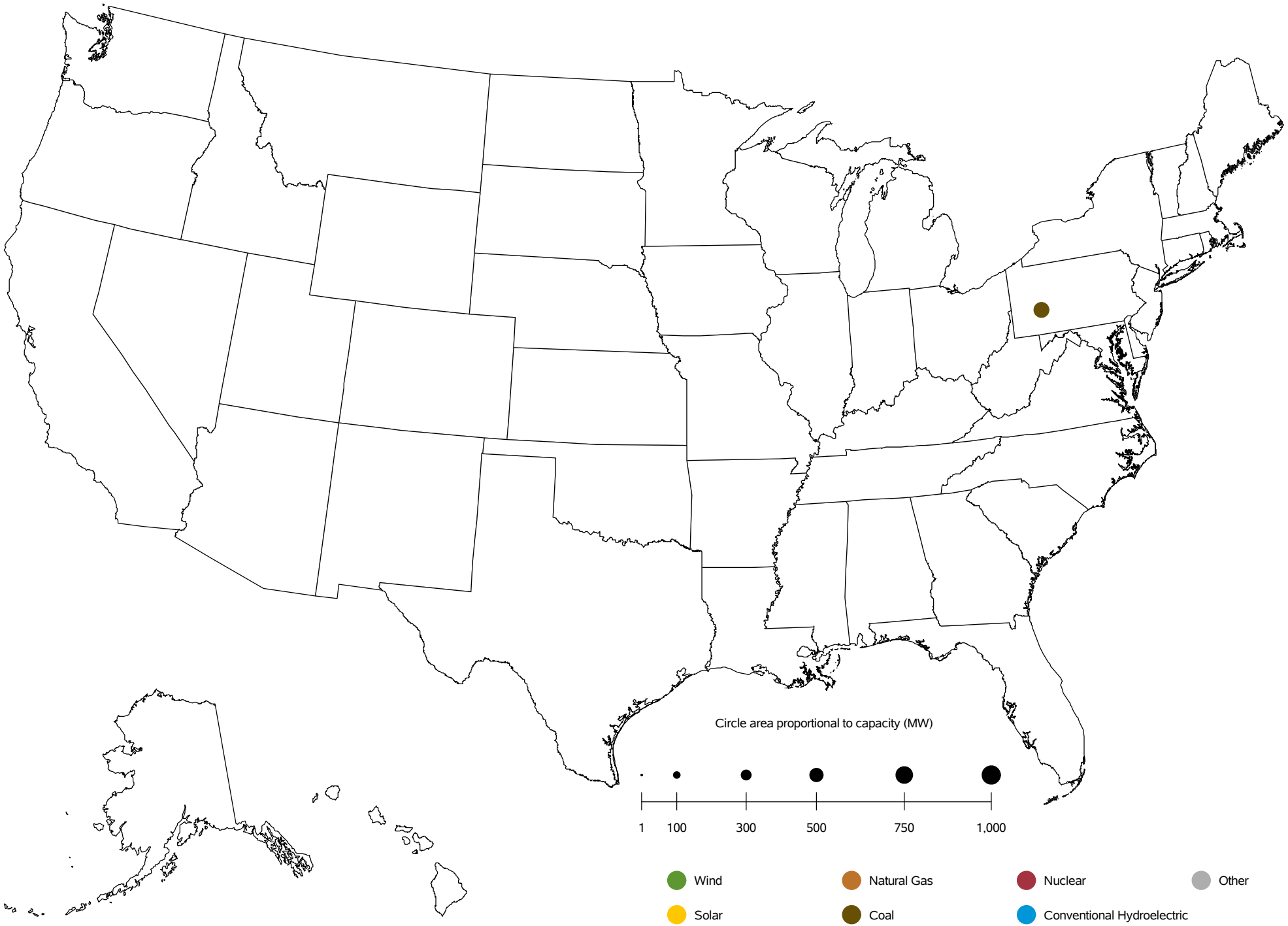
Values for 2021 and prior years are final. Values for 2022 and 2023 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity 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 July 2023



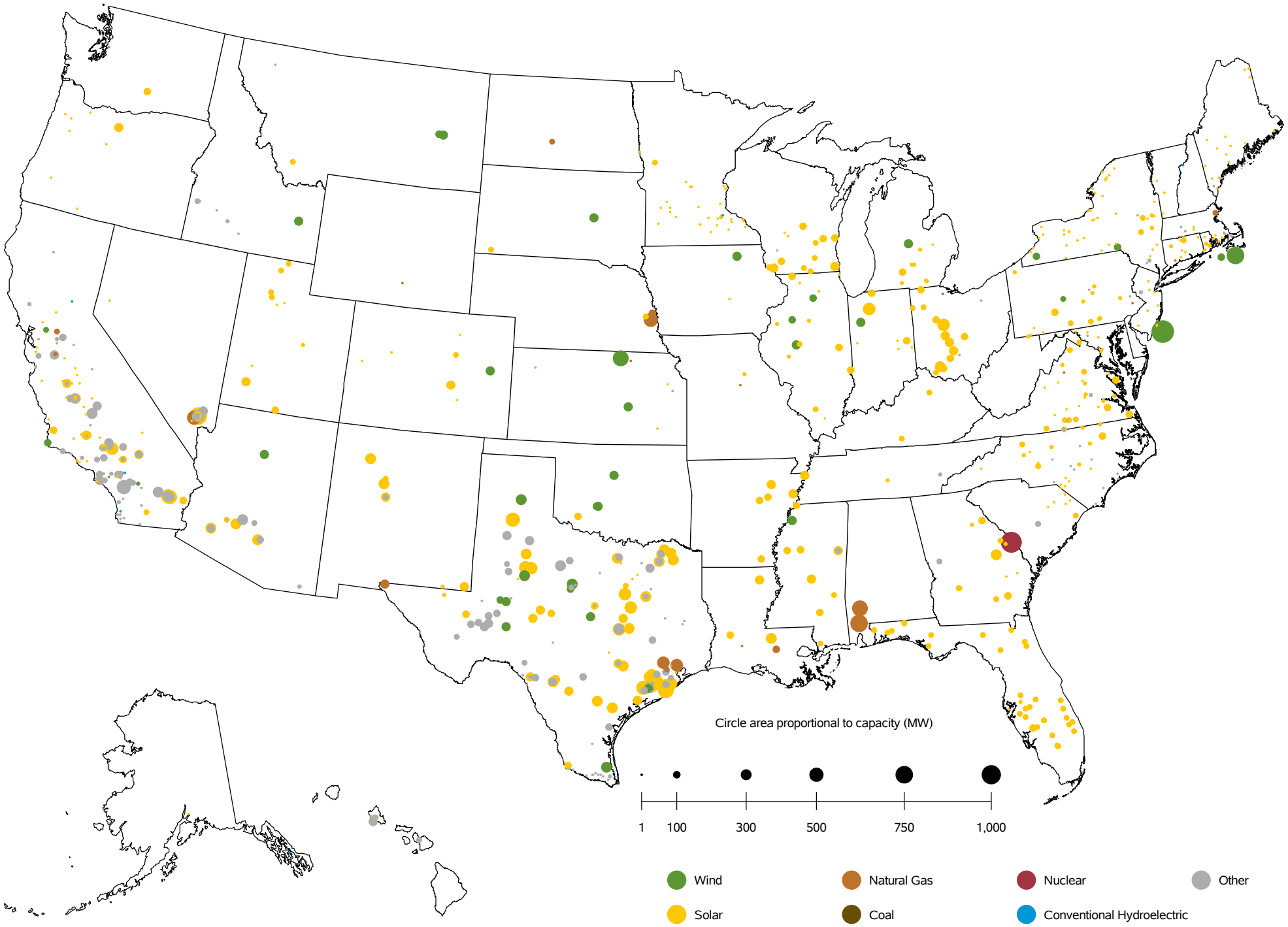
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



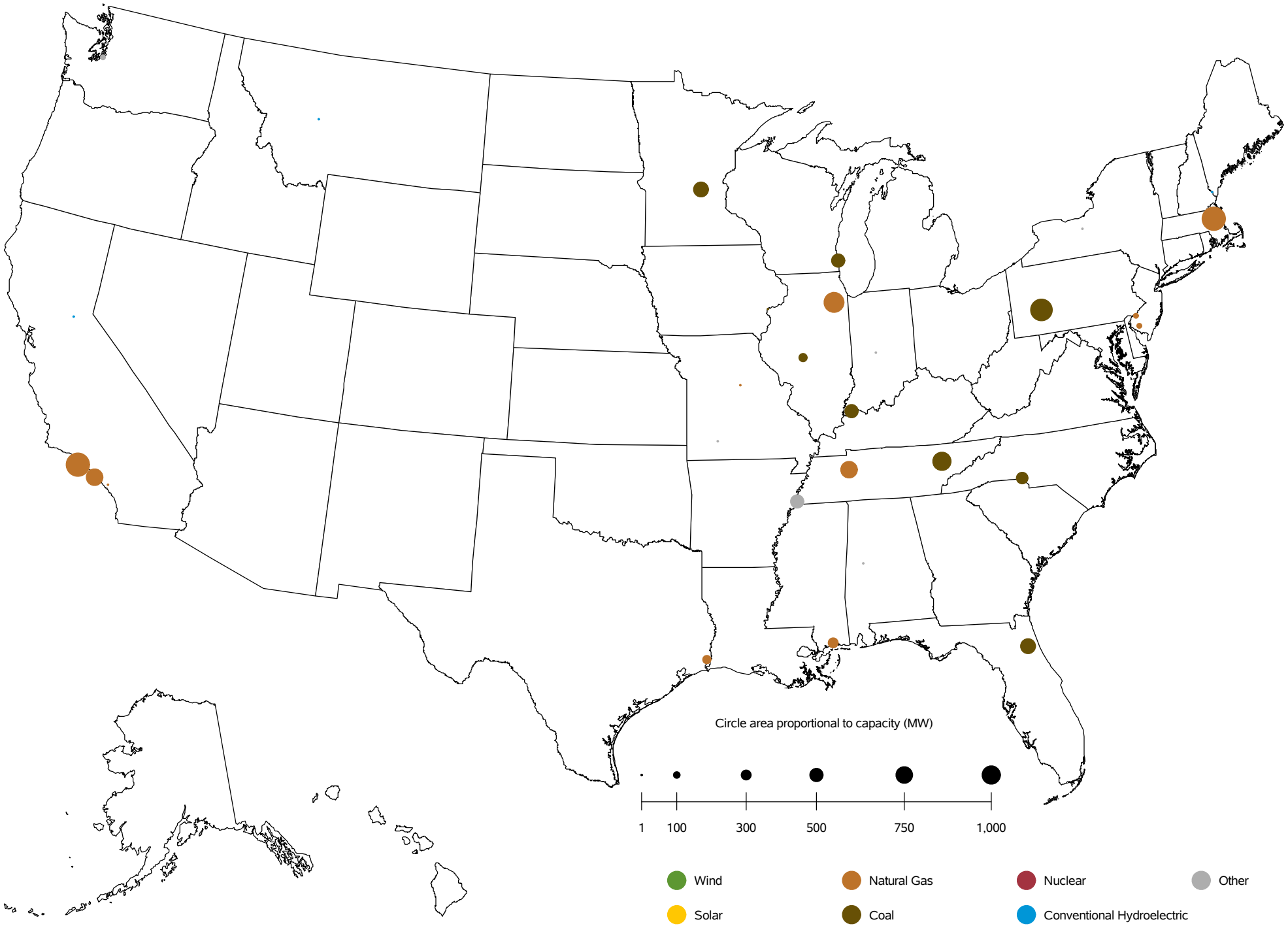
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from August 2023 to July 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 August 2023 to July 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)

	Canada		Mexico		U.S. Total		
Period	Imports from	Exports to	Imports from	Exports to	Imports	Exports	Net Imports
Annual Totals							
2016	65,173,818	2,682,381	7,542,445	3,531,636	72,716,263	6,214,017	66,502,246
2017	59,909,320	3,312,798	5,775,597	6,058,005	65,684,917	9,370,803	56,314,114
2018	51,494,627	7,290,070	6,765,975	6,514,422	58,260,602	13,804,492	44,456,110
2019	52,309,254	13,532,067	6,743,207	6,475,965	59,052,461	20,008,032	39,044,429
2020	57,001,240	9,855,106	4,447,623	4,279,573	61,448,863	14,134,679	47,314,184
2021	48,140,438	10,067,396	5,026,570	3,788,021	53,167,008	13,855,418	39,311,591
2022	52,124,953	10,588,759	4,782,900	5,105,354	56,907,853	15,694,113	41,213,740
Year 2021							
January	4,704,055	764,861	382,376	176,358	5,086,432	941,219	4,145,212
February	3,694,600	966,160	329,259	130,833	4,023,859	1,096,993	2,926,866
March	4,150,649	615,495	418,751	127,679	4,569,400	743,174	3,826,227
April	3,820,800	660,489	568,511	404,506	4,389,311	1,064,995	3,324,316
May	4,299,501	655,598	367,632	316,688	4,667,133	972,287	3,694,847
June	4,795,960	514,165	449,614	289,731	5,245,573	803,896	4,441,677
July	4,988,832	633,880	522,890	463,957	5,511,722	1,097,837	4,413,885
August	4,183,247	762,033	454,170	503,812	4,637,417	1,265,845	3,371,572
Sept	3,561,311	760,958	354,095	413,686	3,915,406	1,174,644	2,740,762
October	3,703,920	1,005,425	454,914	302,166	4,158,834	1,307,591	2,851,243
November	2,709,889	1,427,449	254,724	375,267	2,964,613	1,802,716	1,161,897
December	3,527,674	1,300,883	469,634	283,338	3,997,308	1,584,221	2,413,087
Year 2022							
January	4,031,464	1,298,175	425,753	161,194	4,457,217	1,459,369	2,997,848
February	3,206,131	1,162,605	144,626	367,271	3,350,757	1,529,876	1,820,881
March	3,378,326	1,197,887	293,001	477,143	3,671,327	1,675,030	1,996,297
April	3,552,599	934,026	317,755	439,885	3,870,354	1,373,911	2,496,443
May	4,010,343	1,025,038	364,183	582,532	4,374,526	1,607,570	2,766,956
June	5,123,334	641,211	391,371	488,730	5,514,705	1,129,941	4,384,764
July	6,295,212	766,185	443,070	507,701	6,738,282	1,273,886	5,464,396
August	6,810,768	765,145	418,236	550,822	7,229,004	1,315,967	5,913,037
Sept	4,683,783	867,176	504,443	483,658	5,188,226	1,350,834	3,837,392
October	3,730,724	828,576	399,055	413,166	4,129,779	1,241,742	2,888,037
November	3,056,590	551,727	466,374	344,579	3,522,964	896,306	2,626,658
December	4,245,679	551,008	615,033	288,673	4,860,712	839,681	4,021,031
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

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 - July 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
Year 2021					
January	532	561	132	0	1,225
February	453	506	147	0	1,106
March	526	637	177	0	1,340
April	540	641	139	0	1,320
May	611	657	160	0	1,428
June	596	629	126	0	1,351
July	657	700	149	0	1,507
August	678	627	217	0	1,522
Sept	720	670	170	0	1,561
October	628	587	142	0	1,356
November	608	568	137	0	1,312
December	570	701	158	0	1,429
Year 2022					
January	529	572	163	0	1,264
February	448	577	141	0	1,166
March	504	568	147	0	1,219
April	509	551	129	0	1,190
May	559	722	178	0	1,460
June	691	695	137	0	1,523
July	677	706	160	0	1,543
August	642	643	159	0	1,444
Sept	614	674	144	0	1,433
October	426	525	116	0	1,067
November	587	623	150	0	1,360
December	536	637	144	0	1,316
Year 2023					
January	476	585	126	0	1,188
February	429	547	124	0	1,100
March	459	606	143	0	1,208
April	523	621	143	0	1,287
May	631	689	126	0	1,445
June	696	697	146	0	1,539
July	725	721	146	0	1,593
Year to Date					
2021	3,916	4,332	1,029	0	9,277
2022	3,918	4,391	1,056	0	9,365
2023	3,939	4,467	954	0	9,359
Rolling 12 Months Ending in July					
2022	7,122	7,544	1,880	0	16,546
2023	6,744	7,569	1,666	0	15,980

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 - July 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
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	116	167	37	0	320
April	128	167	36	0	332
May	152	187	31	0	371
June	154	145	32	0	331
July	174	198	39	0	411
Year to Date					
2021	784	959	198	0	1,941
2022	1,105	1,361	297	0	2,763
2023	933	1,157	234	0	2,324
Rolling 12 Months Ending in July					
2022	1,827	2,202	480	0	4,509
2023	1,729	2,129	442	0	4,301

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 - July 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
Year 2021					
January	1,351,470	125,338	588	0	1,477,396
February	1,352,011	125,416	588	0	1,478,015
March	1,353,210	125,563	590	0	1,479,363
April	1,354,747	125,718	590	0	1,481,055
May	1,356,556	125,951	590	0	1,483,097
June	1,357,962	126,093	590	0	1,484,645
July	1,358,817	126,125	591	0	1,485,533
August	1,360,699	126,312	592	0	1,487,603
Sept	1,361,984	126,528	593	0	1,489,105
October	1,363,578	126,710	595	0	1,490,883
November	1,365,047	127,017	593	0	1,492,657
December	1,366,080	127,134	593	0	1,493,807
Year 2022					
January	1,366,102	127,192	590	0	1,493,884
February	1,365,877	127,083	590	0	1,493,550
March	1,366,362	127,175	589	0	1,494,126
April	1,368,406	127,391	587	0	1,496,384
May	1,369,833	127,588	585	0	1,498,006
June	1,372,587	127,920	588	0	1,501,095
July	1,372,079	127,975	588	0	1,500,642
August	1,372,668	127,953	589	0	1,501,210
Sept	1,373,141	128,076	590	0	1,501,807
October	1,374,149	128,106	590	0	1,502,845
November	1,374,192	128,188	589	0	1,502,969
December	1,374,331	128,236	590	0	1,503,157
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
Rolling 12 Months Ending in July					
2022	1,366,553	127,169	590	0	1,494,312
2023	1,375,771	127,976	585	0	1,504,332

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 - July 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
Year 2021					
January	17.37	19.26	16.66	--	18.16
February	15.90	18.75	15.46	--	17.15
March	22.86	23.39	22.95	--	23.13
April	20.00	23.38	16.74	--	21.29
May	19.74	20.63	17.99	--	19.95
June	23.22	24.16	23.31	--	23.67
July	20.18	24.24	20.84	--	22.13
August	23.26	25.93	22.72	--	24.28
Sept	22.29	26.75	21.66	--	24.14
October	22.68	28.44	22.75	--	25.18
November	22.73	28.44	22.75	--	25.20
December	21.60	24.33	20.91	--	22.86
Year 2022					
January	25.72	26.97	24.76	--	26.16
February	25.92	29.16	25.69	--	27.50
March	27.49	33.10	27.86	--	30.15
April	26.69	33.08	27.10	--	29.69
May	27.03	31.24	26.87	--	29.10
June	27.50	29.40	29.29	--	28.53
July	35.05	33.74	35.35	--	34.48
August	29.76	32.99	30.46	--	31.28
Sept	27.71	30.06	28.30	--	28.88
October	32.92	37.13	34.49	--	35.16
November	26.75	30.00	27.11	--	28.28
December	25.75	27.53	26.46	--	26.69
Year 2023					
January	22.58	25.12	22.80	--	23.86
February	23.60	26.38	23.90	--	25.01
March	25.20	27.63	26.16	--	26.53
April	24.45	26.98	25.39	--	25.78
May	24.17	27.22	24.95	--	25.69
June	22.12	20.83	21.97	--	21.52
July	24.01	27.44	26.60	--	25.80
Year to Date					
2021	20.03	22.14	19.21	--	20.93
2022	28.21	30.99	28.15	--	29.51
2023	23.68	25.90	24.57	--	24.83
Rolling 12 Months Ending in July					
2022	25.66	29.18	25.53	--	27.25
2023	25.64	28.13	26.54	--	26.91

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-July 2023

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,163	0	3,082	0	0	4,797
2008	454	98	1,163	0	3,516	0	0	5,231
2009	454	98	1,163	0	3,639	0	0	5,354
2010	454	98	1,163	0	3,640	0	0	5,355
2011	454	98	1,163	0	3,642	5	0	5,363
2012	454	98	1,163	0	3,643	21	98	5,477
2013	454	98	1,163	0	3,643	24	98	5,480
2014	454	98	1,163	0	3,645	35	99	5,495
2015	454	98	1,163	9	3,649	68	99	5,540
2016	454	98	1,163	33	3,652	142	99	5,641
2017	454	98	1,163	35	3,653	142	99	5,645
2018	454	98	1,349	35	3,656	142	99	5,834
2019	454	98	1,358	35	3,661	146	99	5,852
2020	454	98	1,367	38	3,663	156	99	5,876
2021	454	98	1,377	38	3,665	156	99	5,887
2022	454	98	1,381	40	3,749	156	99	5,977
Year 2023								
January	454	98	1,384	35	3,749	152	99	5,972
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

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, July 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**12**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	60	0	3	0	0	26
Maine	0	1	0	12	0	0	13
Massachusetts	0	7	0	5	0	0	19
New Hampshire	0	17	0	0	0	0	23
Rhode Island	0	186	0	10	0	0	348
Vermont	0	146	0	0	0	0	17
Middle Atlantic	**7**	**9**	**0**	**1**	**22**	**0**	**2**
New Jersey	0	242	0	3	0	0	0
New York	0	8	0	2	0	0	1
Pennsylvania	7	28	0	1	34	0	12
East North Central	**1**	**18**	**0**	**1**	**9**	**0**	**16**
Illinois	0	25	0	5	0	0	45
Indiana	2	6	0	3	16	0	33
Michigan	0	15	0	2	0	0	33
Ohio	2	13	0	2	20	0	25
Wisconsin	0	65	0	4	0	0	26
West North Central	**1**	**22**	**0**	**5**	**0**	**0**	**12**
Iowa	0	36	0	7	0	0	38
Kansas	0	70	0	12	0	0	0
Minnesota	1	62	0	8	0	0	45
Missouri	0	19	0	9	0	0	15
Nebraska	5	105	0	26	0	0	36
North Dakota	0	20	0	27	0	0	27
South Dakota	0	90	0	23	0	0	17
South Atlantic	**1**	**13**	**0**	**1**	**0**	**0**	**6**
Delaware	0	45	0	7	0	0	0
District of Columbia	0	5,664	0	35	0	0	0
Florida	8	19	0	1	0	0	38
Georgia	0	72	0	3	0	0	10
Maryland	0	8	0	3	0	0	0
North Carolina	0	37	0	2	0	0	8
South Carolina	0	30	0	2	0	0	16
Virginia	0	32	0	2	0	0	14
West Virginia	2	0	0	10	0	0	15
East South Central	**0**	**4**	**0**	**1**	**53**	**0**	**4**
Alabama	0	131	0	2	347	0	6
Kentucky	0	3	0	4	0	0	6
Mississippi	0	2	0	1	0	0	0
Tennessee	0	0	0	4	0	0	6
West South Central	**0**	**38**	**0**	**1**	**4**	**0**	**7**
Arkansas	0	18	0	4	0	0	10
Louisiana	0	217	0	1	8	0	18
Oklahoma	0	16	0	2	0	0	12
Texas	0	59	0	1	3	0	19
Mountain	**2**	**22**	**0**	**1**	**19**	**0**	**7**
Arizona	0	11	0	1	0	0	5
Colorado	0	145	0	2	161	0	26
Idaho	250	0	0	14	0	0	14
Montana	8	113	0	32	86	0	13
Nevada	0	0	0	1	0	0	3
New Mexico	0	269	0	3	0	0	103
Utah	0	5	0	2	0	0	53
Wyoming	4	3	0	11	16	0	42
Pacific Contiguous	**0**	**9**	**0**	**1**	**0**	**0**	**2**
California	0	10	0	1	0	0	6
Oregon	0	260	0	5	0	0	6
Washington	0	27	0	6	0	0	2
Pacific Noncontiguous	**39**	**1**	**0**	**22**	**0**	**0**	**29**
Alaska	39	6	0	22	0	0	30
Hawaii	0	1	0	0	0	0	86
U.S. Total	**0**	**3**	**0**	**1**	**4**	**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, July 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**	**4**	**5**	**0**	**0**	**2**
Connecticut	0	0	0	10	11	0	0	2
Maine	0	0	0	10	8	0	0	7
Massachusetts	0	0	0	6	5	0	0	4
New Hampshire	0	0	0	119	23	0	0	2
Rhode Island	0	0	0	12	9	0	0	9
Vermont	0	0	0	13	9	0	0	9
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	6	5	0	0	2
New York	0	0	0	6	4	0	2	1
Pennsylvania	0	0	0	13	7	0	0	1
East North Central	**0**	**0**	**0**	**1**	**2**	**0**	**2**	**1**
Illinois	0	0	0	4	3	0	0	1
Indiana	0	0	0	3	4	0	0	2
Michigan	0	0	0	4	5	0	18	1
Ohio	0	0	0	3	2	0	0	1
Wisconsin	0	0	0	3	5	0	28	2
West North Central	**0**	**0**	**0**	**4**	**2**	**0**	**7**	**1**
Iowa	0	0	0	4	3	0	0	2
Kansas	0	0	0	18	2	0	0	2
Minnesota	0	0	0	5	4	0	5	3
Missouri	0	0	0	19	2	0	0	2
Nebraska	0	0	0	29	4	0	0	4
North Dakota	0	0	0	0	4	0	52	2
South Dakota	0	0	0	163	3	0	0	7
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	8	10	0	0	6
District of Columbia	0	0	0	50	20	0	0	21
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	1	2	0	0	1
Maryland	0	0	0	6	4	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	3	0	0	1
Virginia	0	0	0	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	2	4	0	0	1
Kentucky	0	0	0	10	17	0	0	1
Mississippi	0	0	0	2	4	0	0	1
Tennessee	0	0	0	3	3	0	0	1
West South Central	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**0**
Arkansas	0	0	0	3	6	0	0	2
Louisiana	0	0	0	8	8	0	0	1
Oklahoma	0	0	0	26	2	0	0	1
Texas	0	0	0	0	1	0	3	1
Mountain	**0**	**7**	**0**	**1**	**1**	**0**	**1**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	2	2	0	0	1
Idaho	0	37	0	3	7	0	0	8
Montana	0	0	0	0	3	0	0	6
Nevada	0	7	0	1	2	0	0	1
New Mexico	0	0	0	3	1	0	0	1
Utah	0	18	0	1	2	0	46	1
Wyoming	0	0	0	0	5	0	0	4
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**0**	**1**
California	0	3	0	1	1	0	0	1
Oregon	0	26	0	3	3	0	0	3
Washington	0	0	0	4	5	0	0	2
Pacific Noncontiguous	**0**	**26**	**0**	**5**	**5**	**0**	**0**	**6**
Alaska	0	0	0	250	49	0	0	14
Hawaii	0	26	0	5	4	0	0	1
U.S. Total	**0**	**4**	**0**	**0**	**1**	**0**	**0**	**0**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through July 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**12**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	60	0	3	0	0	26
Maine	0	1	0	12	0	0	13
Massachusetts	0	7	0	5	0	0	19
New Hampshire	0	17	0	0	0	0	23
Rhode Island	0	186	0	10	0	0	348
Vermont	0	146	0	0	0	0	17
Middle Atlantic	**7**	**9**	**0**	**1**	**22**	**0**	**2**
New Jersey	0	242	0	3	0	0	0
New York	0	8	0	2	0	0	1
Pennsylvania	7	28	0	1	34	0	12
East North Central	**1**	**18**	**0**	**1**	**9**	**0**	**16**
Illinois	0	25	0	5	0	0	45
Indiana	2	6	0	3	16	0	33
Michigan	0	15	0	2	0	0	33
Ohio	2	13	0	2	20	0	25
Wisconsin	0	65	0	4	0	0	26
West North Central	**1**	**22**	**0**	**5**	**0**	**0**	**12**
Iowa	0	36	0	7	0	0	38
Kansas	0	70	0	12	0	0	0
Minnesota	1	62	0	8	0	0	45
Missouri	0	19	0	9	0	0	15
Nebraska	5	105	0	26	0	0	36
North Dakota	0	20	0	27	0	0	27
South Dakota	0	90	0	23	0	0	17
South Atlantic	**1**	**13**	**0**	**1**	**0**	**0**	**6**
Delaware	0	45	0	7	0	0	0
District of Columbia	0	5,664	0	35	0	0	0
Florida	8	19	0	1	0	0	38
Georgia	0	72	0	3	0	0	10
Maryland	0	8	0	3	0	0	0
North Carolina	0	37	0	2	0	0	8
South Carolina	0	30	0	2	0	0	16
Virginia	0	32	0	2	0	0	14
West Virginia	2	0	0	10	0	0	15
East South Central	**0**	**4**	**0**	**1**	**53**	**0**	**4**
Alabama	0	131	0	2	347	0	6
Kentucky	0	3	0	4	0	0	6
Mississippi	0	2	0	1	0	0	0
Tennessee	0	0	0	4	0	0	6
West South Central	**0**	**38**	**0**	**1**	**4**	**0**	**7**
Arkansas	0	18	0	4	0	0	10
Louisiana	0	217	0	1	8	0	18
Oklahoma	0	16	0	2	0	0	12
Texas	0	59	0	1	3	0	19
Mountain	**2**	**22**	**0**	**1**	**19**	**0**	**7**
Arizona	0	11	0	1	0	0	5
Colorado	0	145	0	2	161	0	26
Idaho	250	0	0	14	0	0	14
Montana	8	113	0	32	86	0	13
Nevada	0	0	0	1	0	0	3
New Mexico	0	269	0	3	0	0	103
Utah	0	5	0	2	0	0	53
Wyoming	4	3	0	11	16	0	42
Pacific Contiguous	**0**	**9**	**0**	**1**	**0**	**0**	**2**
California	0	10	0	1	0	0	6
Oregon	0	260	0	5	0	0	6
Washington	0	27	0	6	0	0	2
Pacific Noncontiguous	**39**	**1**	**0**	**22**	**0**	**0**	**29**
Alaska	39	6	0	22	0	0	30
Hawaii	0	1	0	0	0	0	86
U.S. Total	**0**	**3**	**0**	**1**	**4**	**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 July 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**	**4**	**5**	**0**	**0**	**2**
Connecticut	0	0	0	10	11	0	0	2
Maine	0	0	0	10	8	0	0	7
Massachusetts	0	0	0	6	5	0	0	4
New Hampshire	0	0	0	119	23	0	0	2
Rhode Island	0	0	0	12	9	0	0	9
Vermont	0	0	0	13	9	0	0	9
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	6	5	0	0	2
New York	0	0	0	6	4	0	2	1
Pennsylvania	0	0	0	13	7	0	0	1
East North Central	**0**	**0**	**0**	**1**	**2**	**0**	**2**	**1**
Illinois	0	0	0	4	3	0	0	1
Indiana	0	0	0	3	4	0	0	2
Michigan	0	0	0	4	5	0	18	1
Ohio	0	0	0	3	2	0	0	1
Wisconsin	0	0	0	3	5	0	28	2
West North Central	**0**	**0**	**0**	**4**	**2**	**0**	**7**	**1**
Iowa	0	0	0	4	3	0	0	2
Kansas	0	0	0	18	2	0	0	2
Minnesota	0	0	0	5	4	0	5	3
Missouri	0	0	0	19	2	0	0	2
Nebraska	0	0	0	29	4	0	0	4
North Dakota	0	0	0	0	4	0	52	2
South Dakota	0	0	0	163	3	0	0	7
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	8	10	0	0	6
District of Columbia	0	0	0	50	20	0	0	21
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	1	2	0	0	1
Maryland	0	0	0	6	4	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	3	0	0	1
Virginia	0	0	0	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	2	4	0	0	1
Kentucky	0	0	0	10	17	0	0	1
Mississippi	0	0	0	2	4	0	0	1
Tennessee	0	0	0	3	3	0	0	1
West South Central	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**0**
Arkansas	0	0	0	3	6	0	0	2
Louisiana	0	0	0	8	8	0	0	1
Oklahoma	0	0	0	26	2	0	0	1
Texas	0	0	0	0	1	0	3	1
Mountain	**0**	**7**	**0**	**1**	**1**	**0**	**1**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	2	2	0	0	1
Idaho	0	37	0	3	7	0	0	8
Montana	0	0	0	0	3	0	0	6
Nevada	0	7	0	1	2	0	0	1
New Mexico	0	0	0	3	1	0	0	1
Utah	0	18	0	1	2	0	46	1
Wyoming	0	0	0	0	5	0	0	4
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**0**	**1**
California	0	3	0	1	1	0	0	1
Oregon	0	26	0	3	3	0	0	3
Washington	0	0	0	4	5	0	0	2
Pacific Noncontiguous	**0**	**26**	**0**	**5**	**5**	**0**	**0**	**6**
Alaska	0	0	0	250	49	0	0	14
Hawaii	0	26	0	5	4	0	0	1
U.S. Total	**0**	**4**	**0**	**0**	**1**	**0**	**0**	**0**

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**.**	**1**
Connecticut	0	2	0	.	1
Maine	0	0	0	.	0
Massachusetts	0	2	5	.	1
New Hampshire	0	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	3	4	0	.	2
Middle Atlantic	**0**	**0**	**1**	**.**	**0**
New Jersey	0	0	1	.	0
New York	0	0	1	.	0
Pennsylvania	1	1	0	.	1
East North Central	**1**	**1**	**2**	**.**	**1**
Illinois	1	1	20	.	1
Indiana	5	1	10	.	2
Michigan	2	6	26	.	2
Ohio	4	2	2	.	2
Wisconsin	5	5	3	.	3
West North Central	**2**	**1**	**3**	**.**	**1**
Iowa	4	1	7	.	2
Kansas	4	2	0	.	3
Minnesota	5	2	4	.	3
Missouri	3	1	10	.	2
Nebraska	6	6	23	.	5
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**2**	**2**	**15**	**.**	**2**
Delaware	5	0	139	.	9
District of Columbia	0	0	0	.	0
Florida	3	8	4	.	3
Georgia	56	27	0	.	41
Maryland	2	3	49	.	2
North Carolina	6	6	0	.	5
South Carolina	8	8	0	.	6
Virginia	6	5	14	.	5
West Virginia	0	0	0	.	0
East South Central	**4**	**5**	**2**	**.**	**3**
Alabama	0	0	0	.	0
Kentucky	4	6	0	.	4
Mississippi	12	10	7	.	8
Tennessee	0	0	0	.	0
West South Central	**5**	**7**	**3**	**.**	**4**
Arkansas	9	10	3	.	6
Louisiana	8	16	0	.	7
Oklahoma	13	17	0	.	11
Texas	6	10	41	.	5
Mountain	**0**	**0**	**1**	**.**	**0**
Arizona	0	0	0	.	0
Colorado	1	1	4	.	1
Idaho	1	2	0	.	1
Montana	2	0	0	.	1
Nevada	0	0	0	.	0
New Mexico	1	1	0	.	1
Utah	1	1	0	.	1
Wyoming	2	0	0	.	2
Pacific Contiguous	**0**	**0**	**0**	**.**	**0**
California	0	0	0	.	0
Oregon	2	1	1	.	1
Washington	3	4	4	.	3
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, July 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**32**	**0**	**77**	**0**	**0**	**21**
Connecticut	0	28	0	0	0	0	19
Maine	0	0	0	0	0	0	0
Massachusetts	0	48	0	85	0	0	41
New Hampshire	0	0	0	0	0	0	176
Rhode Island	0	0	0	0	0	0	0
Vermont	0	146	0	0	0	0	27
Middle Atlantic	**0**	**25**	**0**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	70	0	0	0
New York	0	25	0	4	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**24**	**0**	**3**	**0**	**0**	**18**
Illinois	0	27	0	16	0	0	45
Indiana	2	6	0	6	0	0	30
Michigan	0	16	0	4	0	0	35
Ohio	13	31	0	8	0	0	31
Wisconsin	0	67	0	4	0	0	28
West North Central	**1**	**22**	**0**	**6**	**0**	**0**	**12**
Iowa	0	37	0	7	0	0	38
Kansas	0	70	0	13	0	0	0
Minnesota	1	71	0	10	0	0	59
Missouri	0	19	0	13	0	0	15
Nebraska	5	105	0	26	0	0	36
North Dakota	0	20	0	27	0	0	27
South Dakota	0	90	0	23	0	0	17
South Atlantic	**1**	**19**	**0**	**1**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	8	24	0	1	0	0	38
Georgia	0	134	0	3	0	0	10
Maryland	0	55	0	0	0	0	0
North Carolina	0	36	0	1	0	0	9
South Carolina	0	31	0	2	0	0	16
Virginia	0	69	0	2	0	0	13
West Virginia	0	0	0	0	0	0	21
East South Central	**0**	**4**	**0**	**1**	**0**	**0**	**4**
Alabama	0	1,047	0	3	0	0	6
Kentucky	0	3	0	4	0	0	6
Mississippi	0	3	0	1	0	0	0
Tennessee	0	0	0	5	0	0	6
West South Central	**0**	**30**	**0**	**2**	**0**	**0**	**8**
Arkansas	0	23	0	4	0	0	10
Louisiana	0	217	0	2	0	0	0
Oklahoma	0	18	0	3	0	0	12
Texas	0	59	0	3	0	0	20
Mountain	**2**	**23**	**0**	**1**	**0**	**0**	**6**
Arizona	0	11	0	1	0	0	5
Colorado	0	145	0	2	0	0	28
Idaho	0	0	0	15	0	0	15
Montana	0	1,717	0	36	0	0	13
Nevada	0	0	0	1	0	0	0
New Mexico	0	269	0	3	0	0	103
Utah	0	5	0	2	0	0	55
Wyoming	5	3	0	13	0	0	43
Pacific Contiguous	**0**	**36**	**0**	**3**	**0**	**0**	**2**
California	0	34	0	2	0	0	5
Oregon	0	490	0	8	0	0	6
Washington	0	5,253	0	8	0	0	2
Pacific Noncontiguous	**53**	**1**	**0**	**22**	**0**	**0**	**31**
Alaska	53	6	0	22	0	0	31
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**3**	**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, July 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**	**13**	**4**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	22	24	0	0	46
New Hampshire	0	0	0	0	0	0	0	176
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	4	3	0	0	8
Middle Atlantic	**0**	**0**	**0**	**21**	**11**	**0**	**0**	**2**
New Jersey	0	0	0	21	21	0	0	48
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**	**3**	**4**	**0**	**28**	**1**
Illinois	0	0	0	45	28	0	0	12
Indiana	0	0	0	4	4	0	0	2
Michigan	0	0	0	16	6	0	0	2
Ohio	0	0	0	82	117	0	0	7
Wisconsin	0	0	0	3	8	0	28	2
West North Central	**0**	**0**	**0**	**9**	**3**	**0**	**12**	**1**
Iowa	0	0	0	7	3	0	0	2
Kansas	0	0	0	107	7	0	0	2
Minnesota	0	0	0	37	9	0	0	3
Missouri	0	0	0	44	2	0	0	2
Nebraska	0	0	0	83	39	0	0	5
North Dakota	0	0	0	0	9	0	52	2
South Dakota	0	0	0	0	13	0	0	10
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	93	93	0	0	7
District of Columbia	0	0	0	158	158	0	0	158
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	5	5	0	0	1
Maryland	0	0	0	82	82	0	0	0
North Carolina	0	0	0	6	6	0	0	1
South Carolina	0	0	0	80	38	0	0	1
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**	**8**	**9**	**0**	**0**	**1**
Alabama	0	0	0	46	46	0	0	1
Kentucky	0	0	0	29	21	0	0	1
Mississippi	0	0	0	4	4	0	0	1
Tennessee	0	0	0	140	140	0	0	1
West South Central	**0**	**0**	**0**	**9**	**4**	**0**	**0**	**1**
Arkansas	0	0	0	9	9	0	0	2
Louisiana	0	0	0	38	38	0	0	1
Oklahoma	0	0	0	26	5	0	0	2
Texas	0	0	0	59	9	0	0	2
Mountain	**0**	**25**	**0**	**5**	**2**	**0**	**16**	**1**
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	63	3	0	0	1
Idaho	0	0	0	0	13	0	0	10
Montana	0	0	0	0	13	0	0	12
Nevada	0	0	0	6	6	0	0	1
New Mexico	0	0	0	11	2	0	0	1
Utah	0	25	0	112	25	0	46	1
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**11**	**4**	**0**	**0**	**1**
California	0	0	0	12	5	0	0	2
Oregon	0	0	0	100	4	0	0	5
Washington	0	0	0	74	9	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**20**	**33**	**0**	**0**	**9**
Alaska	0	0	0	250	86	0	0	15
Hawaii	0	0	0	20	18	0	0	1
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 July 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**32**	**0**	**77**	**0**	**0**	**21**
Connecticut	0	28	0	0	0	0	19
Maine	0	0	0	0	0	0	0
Massachusetts	0	48	0	85	0	0	41
New Hampshire	0	0	0	0	0	0	176
Rhode Island	0	0	0	0	0	0	0
Vermont	0	146	0	0	0	0	27
Middle Atlantic	**0**	**25**	**0**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	70	0	0	0
New York	0	25	0	4	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**24**	**0**	**3**	**0**	**0**	**18**
Illinois	0	27	0	16	0	0	45
Indiana	2	6	0	6	0	0	30
Michigan	0	16	0	4	0	0	35
Ohio	13	31	0	8	0	0	31
Wisconsin	0	67	0	4	0	0	28
West North Central	**1**	**22**	**0**	**6**	**0**	**0**	**12**
Iowa	0	37	0	7	0	0	38
Kansas	0	70	0	13	0	0	0
Minnesota	1	71	0	10	0	0	59
Missouri	0	19	0	13	0	0	15
Nebraska	5	105	0	26	0	0	36
North Dakota	0	20	0	27	0	0	27
South Dakota	0	90	0	23	0	0	17
South Atlantic	**1**	**19**	**0**	**1**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	8	24	0	1	0	0	38
Georgia	0	134	0	3	0	0	10
Maryland	0	55	0	0	0	0	0
North Carolina	0	36	0	1	0	0	9
South Carolina	0	31	0	2	0	0	16
Virginia	0	69	0	2	0	0	13
West Virginia	0	0	0	0	0	0	21
East South Central	**0**	**4**	**0**	**1**	**0**	**0**	**4**
Alabama	0	1,047	0	3	0	0	6
Kentucky	0	3	0	4	0	0	6
Mississippi	0	3	0	1	0	0	0
Tennessee	0	0	0	5	0	0	6
West South Central	**0**	**30**	**0**	**2**	**0**	**0**	**8**
Arkansas	0	23	0	4	0	0	10
Louisiana	0	217	0	2	0	0	0
Oklahoma	0	18	0	3	0	0	12
Texas	0	59	0	3	0	0	20
Mountain	**2**	**23**	**0**	**1**	**0**	**0**	**6**
Arizona	0	11	0	1	0	0	5
Colorado	0	145	0	2	0	0	28
Idaho	0	0	0	15	0	0	15
Montana	0	1,717	0	36	0	0	13
Nevada	0	0	0	1	0	0	0
New Mexico	0	269	0	3	0	0	103
Utah	0	5	0	2	0	0	55
Wyoming	5	3	0	13	0	0	43
Pacific Contiguous	**0**	**36**	**0**	**3**	**0**	**0**	**2**
California	0	34	0	2	0	0	5
Oregon	0	490	0	8	0	0	6
Washington	0	5,253	0	8	0	0	2
Pacific Noncontiguous	**53**	**1**	**0**	**22**	**0**	**0**	**31**
Alaska	53	6	0	22	0	0	31
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**3**	**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 July 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**	**13**	**4**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	22	24	0	0	46
New Hampshire	0	0	0	0	0	0	0	176
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	4	3	0	0	8
Middle Atlantic	**0**	**0**	**0**	**21**	**11**	**0**	**0**	**2**
New Jersey	0	0	0	21	21	0	0	48
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**	**3**	**4**	**0**	**28**	**1**
Illinois	0	0	0	45	28	0	0	12
Indiana	0	0	0	4	4	0	0	2
Michigan	0	0	0	16	6	0	0	2
Ohio	0	0	0	82	117	0	0	7
Wisconsin	0	0	0	3	8	0	28	2
West North Central	**0**	**0**	**0**	**9**	**3**	**0**	**12**	**1**
Iowa	0	0	0	7	3	0	0	2
Kansas	0	0	0	107	7	0	0	2
Minnesota	0	0	0	37	9	0	0	3
Missouri	0	0	0	44	2	0	0	2
Nebraska	0	0	0	83	39	0	0	5
North Dakota	0	0	0	0	9	0	52	2
South Dakota	0	0	0	0	13	0	0	10
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	93	93	0	0	7
District of Columbia	0	0	0	158	158	0	0	158
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	5	5	0	0	1
Maryland	0	0	0	82	82	0	0	0
North Carolina	0	0	0	6	6	0	0	1
South Carolina	0	0	0	80	38	0	0	1
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**	**8**	**9**	**0**	**0**	**1**
Alabama	0	0	0	46	46	0	0	1
Kentucky	0	0	0	29	21	0	0	1
Mississippi	0	0	0	4	4	0	0	1
Tennessee	0	0	0	140	140	0	0	1
West South Central	**0**	**0**	**0**	**9**	**4**	**0**	**0**	**1**
Arkansas	0	0	0	9	9	0	0	2
Louisiana	0	0	0	38	38	0	0	1
Oklahoma	0	0	0	26	5	0	0	2
Texas	0	0	0	59	9	0	0	2
Mountain	**0**	**25**	**0**	**5**	**2**	**0**	**16**	**1**
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	63	3	0	0	1
Idaho	0	0	0	0	13	0	0	10
Montana	0	0	0	0	13	0	0	12
Nevada	0	0	0	6	6	0	0	1
New Mexico	0	0	0	11	2	0	0	1
Utah	0	25	0	112	25	0	46	1
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**11**	**4**	**0**	**0**	**1**
California	0	0	0	12	5	0	0	2
Oregon	0	0	0	100	4	0	0	5
Washington	0	0	0	74	9	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**20**	**33**	**0**	**0**	**9**
Alaska	0	0	0	250	86	0	0	15
Hawaii	0	0	0	20	18	0	0	1
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, July 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**13**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	81	0	3	0	0	30
Maine	0	1	0	13	0	0	13
Massachusetts	0	3	0	4	0	0	21
New Hampshire	0	22	0	0	0	0	22
Rhode Island	0	116	0	10	0	0	348
Vermont	0	0	0	0	0	0	22
Middle Atlantic	**7**	**8**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	327	0	3	0	0	0
New York	0	7	0	2	0	0	10
Pennsylvania	7	32	0	1	0	0	12
East North Central	**0**	**14**	**0**	**2**	**8**	**0**	**44**
Illinois	0	46	0	5	0	0	110
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	134
Ohio	0	14	0	2	28	0	41
Wisconsin	0	0	0	0	0	0	113
West North Central	**0**	**123**	**0**	**9**	**0**	**0**	**79**
Iowa	0	54	0	1,573	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	186	0	15	0	0	86
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**11**	**10**	**0**	**2**	**0**	**0**	**8**
Delaware	0	45	0	7	0	0	0
Florida	0	0	0	6	0	0	0
Georgia	0	413	0	8	0	0	277
Maryland	0	9	0	5	0	0	0
North Carolina	0	323	0	7	0	0	20
South Carolina	0	97	0	17	0	0	67
Virginia	0	7	0	2	0	0	42
West Virginia	20	0	0	14	0	0	30
East South Central	**0**	**151**	**0**	**0**	**0**	**0**	**20**
Alabama	0	151	0	0	0	0	0
Kentucky	0	0	0	0	0	0	239
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	19
West South Central	**0**	**83**	**0**	**1**	**0**	**0**	**16**
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	6	0	0	18
Oklahoma	0	0	0	0	0	0	0
Texas	0	93	0	1	0	0	0
Mountain	**7**	**14**	**0**	**2**	**0**	**0**	**34**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	67
Idaho	0	0	0	28	0	0	46
Montana	8	28	0	35	0	0	116
Nevada	0	0	0	0	0	0	79
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	54	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**1**	**0**	**0**	**28**
California	0	0	0	1	0	0	32
Oregon	0	0	0	2	0	0	85
Washington	0	13	0	9	0	0	71
Pacific Noncontiguous	**69**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	69	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**4**	**0**	**1**	**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, July 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**	**4**	**6**	**0**	**0**	**2**
Connecticut	0	0	0	10	11	0	0	2
Maine	0	0	0	10	9	0	0	7
Massachusetts	0	0	0	6	5	0	0	4
New Hampshire	0	0	0	119	24	0	0	2
Rhode Island	0	0	0	12	9	0	0	9
Vermont	0	0	0	18	22	0	0	16
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	7	6	0	0	2
New York	0	0	0	6	4	0	0	2
Pennsylvania	0	0	0	14	8	0	0	1
East North Central	**0**	**0**	**0**	**2**	**2**	**0**	**24**	**1**
Illinois	0	0	0	4	3	0	0	1
Indiana	0	0	0	4	5	0	0	1
Michigan	0	0	0	4	6	0	35	1
Ohio	0	0	0	3	2	0	0	1
Wisconsin	0	0	0	8	6	0	0	1
West North Central	**0**	**0**	**0**	**4**	**2**	**0**	**0**	**2**
Iowa	0	0	0	4	4	0	0	4
Kansas	0	0	0	16	3	0	0	3
Minnesota	0	0	0	5	4	0	0	7
Missouri	0	0	0	21	4	0	0	1
Nebraska	0	0	0	30	4	0	0	4
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	163	3	0	0	3
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**2**
Delaware	0	0	0	8	10	0	0	7
District of Columbia	0	0	0	52	52	0	0	52
Florida	0	0	0	4	3	0	0	5
Georgia	0	0	0	1	1	0	0	5
Maryland	0	0	0	6	4	0	0	2
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	4	0	0	5
Virginia	0	0	0	3	3	0	0	2
West Virginia	0	0	0	0	1	0	0	12
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	7	0	0	5
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	3	4	0	0	8
West South Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**
Arkansas	0	0	0	3	5	0	0	1
Louisiana	0	0	0	8	9	0	0	4
Oklahoma	0	0	0	158	2	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	**0**	**7**	**0**	**1**	**1**	**0**	**0**	**1**
Arizona	0	0	0	1	1	0	0	0
Colorado	0	0	0	2	2	0	0	3
Idaho	0	37	0	3	9	0	0	14
Montana	0	0	0	0	3	0	0	7
Nevada	0	7	0	1	2	0	0	2
New Mexico	0	0	0	3	2	0	0	2
Utah	0	24	0	1	1	0	0	2
Wyoming	0	0	0	0	5	0	0	4
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**0**	**1**
California	0	4	0	1	1	0	0	1
Oregon	0	26	0	3	3	0	0	2
Washington	0	0	0	4	7	0	0	5
Pacific Noncontiguous	**0**	**26**	**0**	**5**	**5**	**0**	**0**	**4**
Alaska	0	0	0	0	124	0	0	62
Hawaii	0	26	0	5	5	0	0	3
U.S. Total	**0**	**4**	**0**	**0**	**1**	**0**	**0**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**13**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	81	0	3	0	0	30
Maine	0	1	0	13	0	0	13
Massachusetts	0	3	0	4	0	0	21
New Hampshire	0	22	0	0	0	0	22
Rhode Island	0	116	0	10	0	0	348
Vermont	0	0	0	0	0	0	22
Middle Atlantic	**7**	**8**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	327	0	3	0	0	0
New York	0	7	0	2	0	0	10
Pennsylvania	7	32	0	1	0	0	12
East North Central	**0**	**14**	**0**	**2**	**8**	**0**	**44**
Illinois	0	46	0	5	0	0	110
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	134
Ohio	0	14	0	2	28	0	41
Wisconsin	0	0	0	0	0	0	113
West North Central	**0**	**123**	**0**	**9**	**0**	**0**	**79**
Iowa	0	54	0	1,573	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	186	0	15	0	0	86
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**11**	**10**	**0**	**2**	**0**	**0**	**8**
Delaware	0	45	0	7	0	0	0
Florida	0	0	0	6	0	0	0
Georgia	0	413	0	8	0	0	277
Maryland	0	9	0	5	0	0	0
North Carolina	0	323	0	7	0	0	20
South Carolina	0	97	0	17	0	0	67
Virginia	0	7	0	2	0	0	42
West Virginia	20	0	0	14	0	0	30
East South Central	**0**	**151**	**0**	**0**	**0**	**0**	**20**
Alabama	0	151	0	0	0	0	0
Kentucky	0	0	0	0	0	0	239
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	19
West South Central	**0**	**83**	**0**	**1**	**0**	**0**	**16**
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	6	0	0	18
Oklahoma	0	0	0	0	0	0	0
Texas	0	93	0	1	0	0	0
Mountain	**7**	**14**	**0**	**2**	**0**	**0**	**34**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	67
Idaho	0	0	0	28	0	0	46
Montana	8	28	0	35	0	0	116
Nevada	0	0	0	0	0	0	79
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	54	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**1**	**0**	**0**	**28**
California	0	0	0	1	0	0	32
Oregon	0	0	0	2	0	0	85
Washington	0	13	0	9	0	0	71
Pacific Noncontiguous	**69**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	69	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**4**	**0**	**1**	**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 July 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**	**4**	**6**	**0**	**0**	**2**
Connecticut	0	0	0	10	11	0	0	2
Maine	0	0	0	10	9	0	0	7
Massachusetts	0	0	0	6	5	0	0	4
New Hampshire	0	0	0	119	24	0	0	2
Rhode Island	0	0	0	12	9	0	0	9
Vermont	0	0	0	18	22	0	0	16
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	7	6	0	0	2
New York	0	0	0	6	4	0	0	2
Pennsylvania	0	0	0	14	8	0	0	1
East North Central	**0**	**0**	**0**	**2**	**2**	**0**	**24**	**1**
Illinois	0	0	0	4	3	0	0	1
Indiana	0	0	0	4	5	0	0	1
Michigan	0	0	0	4	6	0	35	1
Ohio	0	0	0	3	2	0	0	1
Wisconsin	0	0	0	8	6	0	0	1
West North Central	**0**	**0**	**0**	**4**	**2**	**0**	**0**	**2**
Iowa	0	0	0	4	4	0	0	4
Kansas	0	0	0	16	3	0	0	3
Minnesota	0	0	0	5	4	0	0	7
Missouri	0	0	0	21	4	0	0	1
Nebraska	0	0	0	30	4	0	0	4
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	163	3	0	0	3
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**2**
Delaware	0	0	0	8	10	0	0	7
District of Columbia	0	0	0	52	52	0	0	52
Florida	0	0	0	4	3	0	0	5
Georgia	0	0	0	1	1	0	0	5
Maryland	0	0	0	6	4	0	0	2
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	4	0	0	5
Virginia	0	0	0	3	3	0	0	2
West Virginia	0	0	0	0	1	0	0	12
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	7	0	0	5
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	3	4	0	0	8
West South Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**
Arkansas	0	0	0	3	5	0	0	1
Louisiana	0	0	0	8	9	0	0	4
Oklahoma	0	0	0	158	2	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	**0**	**7**	**0**	**1**	**1**	**0**	**0**	**1**
Arizona	0	0	0	1	1	0	0	0
Colorado	0	0	0	2	2	0	0	3
Idaho	0	37	0	3	9	0	0	14
Montana	0	0	0	0	3	0	0	7
Nevada	0	7	0	1	2	0	0	2
New Mexico	0	0	0	3	2	0	0	2
Utah	0	24	0	1	1	0	0	2
Wyoming	0	0	0	0	5	0	0	4
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**0**	**1**
California	0	4	0	1	1	0	0	1
Oregon	0	26	0	3	3	0	0	2
Washington	0	0	0	4	7	0	0	5
Pacific Noncontiguous	**0**	**26**	**0**	**5**	**5**	**0**	**0**	**4**
Alaska	0	0	0	0	124	0	0	62
Hawaii	0	26	0	5	5	0	0	3
U.S. Total	**0**	**4**	**0**	**0**	**1**	**0**	**0**	**0**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, July 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**65**	**0**	**15**	**0**	**0**	**0**
Connecticut	0	727	0	23	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	103	0	21	0	0	0
New Hampshire	0	2	0	0	0	0	0
Rhode Island	0	510	0	60	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**31**	**0**	**15**	**0**	**0**	**0**
New Jersey	0	213	0	25	0	0	0
New York	0	92	0	20	0	0	0
Pennsylvania	0	0	0	21	0	0	0
East North Central	**131**	**37**	**0**	**8**	**0**	**0**	**410**
Illinois	131	587	0	22	0	0	0
Indiana	0	0	0	0	0	0	410
Michigan	0	495	0	10	0	0	0
Ohio	0	0	0	3	0	0	0
Wisconsin	0	172	0	15	0	0	0
West North Central	**0**	**19**	**0**	**6**	**0**	**0**	**0**
Iowa	0	334	0	16	0	0	0
Minnesota	0	18	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	1,487	0	0	0	0	0
South Atlantic	**0**	**22**	**0**	**15**	**0**	**0**	**0**
District of Columbia	0	5,664	0	35	0	0	0
Florida	0	0	0	63	0	0	0
Georgia	0	74	0	0	0	0	0
Maryland	0	0	0	10	0	0	0
North Carolina	0	719	0	46	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**	**24**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	24	0	0	0
West South Central	**0**	**181**	**0**	**20**	**0**	**0**	**0**
Arkansas	0	0	0	110	0	0	0
Louisiana	0	0	0	103	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	181	0	21	0	0	0
Mountain	**0**	**363**	**0**	**12**	**0**	**0**	**130**
Arizona	0	1,193	0	5	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	44	0	0	0
Utah	0	0	0	22	0	0	201
Pacific Contiguous	**0**	**10**	**0**	**4**	**0**	**0**	**500**
California	0	4	0	4	0	0	500
Oregon	0	226	0	34	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**54**	**9**	**0**	**0**	**0**	**0**	**92**
Alaska	54	154	0	0	0	0	92
Hawaii	0	0	0	0	0	0	0
U.S. Total	**44**	**18**	**0**	**5**	**0**	**0**	**69**

Displayed values of zero may 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, July 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**	**67**	**3**	**0**	**0**	**7**
Connecticut	0	0	0	118	118	0	0	23
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	80	3	0	0	8
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	57
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**2**	**0**	**1**	**4**
New Jersey	0	0	0	17	6	0	0	6
New York	0	0	0	57	2	0	2	7
Pennsylvania	0	0	0	82	5	0	0	6
East North Central	**0**	**0**	**0**	**64**	**18**	**0**	**0**	**7**
Illinois	0	0	0	158	166	0	0	21
Indiana	0	0	0	158	18	0	0	15
Michigan	0	0	0	401	3	0	0	8
Ohio	0	0	0	95	44	0	0	4
Wisconsin	0	0	0	116	39	0	0	17
West North Central	**0**	**0**	**0**	**0**	**17**	**0**	**48**	**7**
Iowa	0	0	0	0	65	0	0	15
Kansas	0	0	0	0	176	0	0	176
Minnesota	0	0	0	0	25	0	48	12
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	1,487
South Atlantic	**0**	**0**	**0**	**19**	**3**	**0**	**0**	**4**
Delaware	0	0	0	129	85	0	0	85
District of Columbia	0	0	0	0	0	0	0	24
Florida	0	0	0	75	1	0	0	4
Georgia	0	0	0	149	149	0	0	127
Maryland	0	0	0	51	51	0	0	10
North Carolina	0	0	0	21	21	0	0	24
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	172	2	0	0	1
East South Central	**0**	**0**	**0**	**93**	**93**	**0**	**0**	**23**
Kentucky	0	0	0	195	195	0	0	195
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	105	105	0	0	24
West South Central	**0**	**0**	**0**	**14**	**47**	**0**	**0**	**20**
Arkansas	0	0	0	0	0	0	0	63
Louisiana	0	0	0	0	0	0	0	103
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	102	149	0	0	21
Mountain	**0**	**0**	**0**	**25**	**19**	**0**	**0**	**14**
Arizona	0	0	0	48	48	0	0	10
Colorado	0	0	0	70	70	0	0	27
Idaho	0	0	0	0	25	0	0	11
Nevada	0	0	0	32	32	0	0	16
New Mexico	0	0	0	0	362	0	0	44
Utah	0	0	0	0	0	0	0	50
Pacific Contiguous	**0**	**0**	**0**	**17**	**5**	**0**	**0**	**3**
California	0	0	0	17	6	0	0	4
Oregon	0	0	0	0	28	0	0	24
Washington	0	0	0	0	53	0	0	52
Pacific Noncontiguous	**0**	**0**	**0**	**127**	**4**	**0**	**0**	**20**
Alaska	0	0	0	0	0	0	0	49
Hawaii	0	0	0	127	5	0	0	2
U.S. Total	**0**	**0**	**0**	**9**	**2**	**0**	**1**	**3**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**65**	**0**	**15**	**0**	**0**	**0**
Connecticut	0	727	0	23	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	103	0	21	0	0	0
New Hampshire	0	2	0	0	0	0	0
Rhode Island	0	510	0	60	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**31**	**0**	**15**	**0**	**0**	**0**
New Jersey	0	213	0	25	0	0	0
New York	0	92	0	20	0	0	0
Pennsylvania	0	0	0	21	0	0	0
East North Central	**131**	**37**	**0**	**8**	**0**	**0**	**410**
Illinois	131	587	0	22	0	0	0
Indiana	0	0	0	0	0	0	410
Michigan	0	495	0	10	0	0	0
Ohio	0	0	0	3	0	0	0
Wisconsin	0	172	0	15	0	0	0
West North Central	**0**	**19**	**0**	**6**	**0**	**0**	**0**
Iowa	0	334	0	16	0	0	0
Minnesota	0	18	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	1,487	0	0	0	0	0
South Atlantic	**0**	**22**	**0**	**15**	**0**	**0**	**0**
District of Columbia	0	5,664	0	35	0	0	0
Florida	0	0	0	63	0	0	0
Georgia	0	74	0	0	0	0	0
Maryland	0	0	0	10	0	0	0
North Carolina	0	719	0	46	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**	**24**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	24	0	0	0
West South Central	**0**	**181**	**0**	**20**	**0**	**0**	**0**
Arkansas	0	0	0	110	0	0	0
Louisiana	0	0	0	103	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	181	0	21	0	0	0
Mountain	**0**	**363**	**0**	**12**	**0**	**0**	**130**
Arizona	0	1,193	0	5	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	44	0	0	0
Utah	0	0	0	22	0	0	201
Pacific Contiguous	**0**	**10**	**0**	**4**	**0**	**0**	**500**
California	0	4	0	4	0	0	500
Oregon	0	226	0	34	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**54**	**9**	**0**	**0**	**0**	**0**	**92**
Alaska	54	154	0	0	0	0	92
Hawaii	0	0	0	0	0	0	0
U.S. Total	**44**	**18**	**0**	**5**	**0**	**0**	**69**

Displayed values of zero may 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 July 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**	**67**	**3**	**0**	**0**	**7**
Connecticut	0	0	0	118	118	0	0	23
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	80	3	0	0	8
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	57
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**2**	**0**	**1**	**4**
New Jersey	0	0	0	17	6	0	0	6
New York	0	0	0	57	2	0	2	7
Pennsylvania	0	0	0	82	5	0	0	6
East North Central	**0**	**0**	**0**	**64**	**18**	**0**	**0**	**7**
Illinois	0	0	0	158	166	0	0	21
Indiana	0	0	0	158	18	0	0	15
Michigan	0	0	0	401	3	0	0	8
Ohio	0	0	0	95	44	0	0	4
Wisconsin	0	0	0	116	39	0	0	17
West North Central	**0**	**0**	**0**	**0**	**17**	**0**	**48**	**7**
Iowa	0	0	0	0	65	0	0	15
Kansas	0	0	0	0	176	0	0	176
Minnesota	0	0	0	0	25	0	48	12
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	1,487
South Atlantic	**0**	**0**	**0**	**19**	**3**	**0**	**0**	**4**
Delaware	0	0	0	129	85	0	0	85
District of Columbia	0	0	0	0	0	0	0	24
Florida	0	0	0	75	1	0	0	4
Georgia	0	0	0	149	149	0	0	127
Maryland	0	0	0	51	51	0	0	10
North Carolina	0	0	0	21	21	0	0	24
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	172	2	0	0	1
East South Central	**0**	**0**	**0**	**93**	**93**	**0**	**0**	**23**
Kentucky	0	0	0	195	195	0	0	195
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	105	105	0	0	24
West South Central	**0**	**0**	**0**	**14**	**47**	**0**	**0**	**20**
Arkansas	0	0	0	0	0	0	0	63
Louisiana	0	0	0	0	0	0	0	103
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	102	149	0	0	21
Mountain	**0**	**0**	**0**	**25**	**19**	**0**	**0**	**14**
Arizona	0	0	0	48	48	0	0	10
Colorado	0	0	0	70	70	0	0	27
Idaho	0	0	0	0	25	0	0	11
Nevada	0	0	0	32	32	0	0	16
New Mexico	0	0	0	0	362	0	0	44
Utah	0	0	0	0	0	0	0	50
Pacific Contiguous	**0**	**0**	**0**	**17**	**5**	**0**	**0**	**3**
California	0	0	0	17	6	0	0	4
Oregon	0	0	0	0	28	0	0	24
Washington	0	0	0	0	53	0	0	52
Pacific Noncontiguous	**0**	**0**	**0**	**127**	**4**	**0**	**0**	**20**
Alaska	0	0	0	0	0	0	0	49
Hawaii	0	0	0	127	5	0	0	2
U.S. Total	**0**	**0**	**0**	**9**	**2**	**0**	**1**	**3**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**11**	**0**	**0**	**66**
Connecticut	0	0	0	13	0	0	0
Maine	0	12	0	40	0	0	66
Massachusetts	0	105	0	21	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	888	0	38	0	0	0
Middle Atlantic	**0**	**74**	**0**	**5**	**25**	**0**	**31**
New Jersey	0	0	0	11	0	0	0
New York	0	10	0	8	0	0	31
Pennsylvania	0	825	0	6	34	0	0
East North Central	**11**	**18**	**0**	**6**	**13**	**0**	**54**
Illinois	9	0	0	17	0	0	0
Indiana	0	29	0	8	16	0	0
Michigan	272	0	0	20	0	0	273
Ohio	0	0	0	21	0	0	0
Wisconsin	73	76	0	15	0	0	53
West North Central	**6**	**6**	**0**	**8**	**0**	**0**	**0**
Iowa	2	85	0	11	0	0	0
Kansas	0	0	0	11	0	0	0
Minnesota	85	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	11	0	0	0	0	0	0
North Dakota	93	0	0	0	0	0	0
South Dakota	0	0	0	108	0	0	0
South Atlantic	**53**	**28**	**0**	**5**	**0**	**0**	**26**
Delaware	0	0	0	0	0	0	0
Florida	156	66	0	13	0	0	0
Georgia	93	43	0	19	0	0	81
Maryland	0	0	0	0	0	0	0
North Carolina	93	111	0	37	0	0	649
South Carolina	0	0	0	12	0	0	0
Virginia	0	16	0	10	0	0	0
West Virginia	0	0	0	0	0	0	26
East South Central	**19**	**76**	**0**	**9**	**53**	**0**	**0**
Alabama	245	92	0	15	347	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	21	0	0	0
Tennessee	0	0	0	10	0	0	0
West South Central	**0**	**21**	**0**	**1**	**6**	**0**	**0**
Arkansas	0	964	0	40	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	10	0	2	6	0	0
Mountain	**33**	**0**	**0**	**4**	**21**	**0**	**0**
Colorado	0	0	0	0	161	0	0
Idaho	250	0	0	42	0	0	0
Montana	436	0	0	497	476	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	33	0	0	14	16	0	0
Pacific Contiguous	**0**	**6**	**0**	**2**	**0**	**0**	**0**
California	0	3	0	2	0	0	0
Oregon	0	0	0	47	0	0	0
Washington	0	36	0	5	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**113**
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	113
U.S. Total	**6**	**5**	**0**	**1**	**5**	**0**	**20**

Displayed values of zero may 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, July 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**	**81**	**11**	**0**	**0**	**8**
Connecticut	0	0	0	132	132	0	0	13
Maine	0	0	0	0	11	0	0	11
Massachusetts	0	0	0	72	122	0	0	20
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	38
Middle Atlantic	**0**	**0**	**0**	**49**	**12**	**0**	**0**	**5**
New Jersey	0	0	0	98	98	0	0	8
New York	0	0	0	84	28	0	0	8
Pennsylvania	0	0	0	75	13	0	0	6
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**4**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	22	0	0	8
Michigan	0	0	0	0	16	0	0	12
Ohio	0	0	0	0	18	0	0	10
Wisconsin	0	0	0	0	12	0	0	12
West North Central	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	4
Kansas	0	0	0	0	246	0	0	13
Minnesota	0	0	0	0	0	0	0	11
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	64
South Dakota	0	0	0	0	109	0	0	78
South Atlantic	**0**	**0**	**0**	**75**	**4**	**0**	**0**	**3**
Delaware	0	0	0	0	56	0	0	0
Florida	0	0	0	118	10	0	1	6
Georgia	0	0	0	0	8	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	9	0	0	8
South Carolina	0	0	0	97	5	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	6	0	0	7
Kentucky	0	0	0	0	33	0	0	18
Mississippi	0	0	0	0	6	0	0	8
Tennessee	0	0	0	0	0	0	0	5
West South Central	**0**	**0**	**0**	**74**	**7**	**0**	**3**	**1**
Arkansas	0	0	0	126	14	0	0	14
Louisiana	0	0	0	0	9	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	86	17	0	5	2
Mountain	**0**	**0**	**0**	**47**	**6**	**0**	**0**	**5**
Arizona	0	0	0	63	63	0	0	63
Colorado	0	0	0	0	0	0	0	7
Idaho	0	0	0	139	1	0	0	12
Montana	0	0	0	0	0	0	0	75
Nevada	0	0	0	66	66	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	14
Pacific Contiguous	**0**	**0**	**0**	**20**	**10**	**0**	**6**	**2**
California	0	0	0	20	14	0	6	2
Oregon	0	0	0	0	20	0	0	18
Washington	0	0	0	0	15	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**24**
Alaska	0	0	0	0	0	0	0	4
Hawaii	0	0	0	0	0	0	0	39
U.S. Total	**0**	**0**	**0**	**16**	**3**	**0**	**1**	**1**

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

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

Industrial Sector by Census Division and State, Year-to-Date through July 2023

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**11**	**0**	**0**	**66**
Connecticut	0	0	0	13	0	0	0
Maine	0	12	0	40	0	0	66
Massachusetts	0	105	0	21	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	888	0	38	0	0	0
Middle Atlantic	**0**	**74**	**0**	**5**	**25**	**0**	**31**
New Jersey	0	0	0	11	0	0	0
New York	0	10	0	8	0	0	31
Pennsylvania	0	825	0	6	34	0	0
East North Central	**11**	**18**	**0**	**6**	**13**	**0**	**54**
Illinois	9	0	0	17	0	0	0
Indiana	0	29	0	8	16	0	0
Michigan	272	0	0	20	0	0	273
Ohio	0	0	0	21	0	0	0
Wisconsin	73	76	0	15	0	0	53
West North Central	**6**	**6**	**0**	**8**	**0**	**0**	**0**
Iowa	2	85	0	11	0	0	0
Kansas	0	0	0	11	0	0	0
Minnesota	85	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	11	0	0	0	0	0	0
North Dakota	93	0	0	0	0	0	0
South Dakota	0	0	0	108	0	0	0
South Atlantic	**53**	**28**	**0**	**5**	**0**	**0**	**26**
Delaware	0	0	0	0	0	0	0
Florida	156	66	0	13	0	0	0
Georgia	93	43	0	19	0	0	81
Maryland	0	0	0	0	0	0	0
North Carolina	93	111	0	37	0	0	649
South Carolina	0	0	0	12	0	0	0
Virginia	0	16	0	10	0	0	0
West Virginia	0	0	0	0	0	0	26
East South Central	**19**	**76**	**0**	**9**	**53**	**0**	**0**
Alabama	245	92	0	15	347	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	21	0	0	0
Tennessee	0	0	0	10	0	0	0
West South Central	**0**	**21**	**0**	**1**	**6**	**0**	**0**
Arkansas	0	964	0	40	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	10	0	2	6	0	0
Mountain	**33**	**0**	**0**	**4**	**21**	**0**	**0**
Colorado	0	0	0	0	161	0	0
Idaho	250	0	0	42	0	0	0
Montana	436	0	0	497	476	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	33	0	0	14	16	0	0
Pacific Contiguous	**0**	**6**	**0**	**2**	**0**	**0**	**0**
California	0	3	0	2	0	0	0
Oregon	0	0	0	47	0	0	0
Washington	0	36	0	5	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**113**
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	113
U.S. Total	**6**	**5**	**0**	**1**	**5**	**0**	**20**

Displayed values of zero may 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 July 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**	**81**	**11**	**0**	**0**	**8**
Connecticut	0	0	0	132	132	0	0	13
Maine	0	0	0	0	11	0	0	11
Massachusetts	0	0	0	72	122	0	0	20
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	38
Middle Atlantic	**0**	**0**	**0**	**49**	**12**	**0**	**0**	**5**
New Jersey	0	0	0	98	98	0	0	8
New York	0	0	0	84	28	0	0	8
Pennsylvania	0	0	0	75	13	0	0	6
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**4**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	22	0	0	8
Michigan	0	0	0	0	16	0	0	12
Ohio	0	0	0	0	18	0	0	10
Wisconsin	0	0	0	0	12	0	0	12
West North Central	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	4
Kansas	0	0	0	0	246	0	0	13
Minnesota	0	0	0	0	0	0	0	11
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	64
South Dakota	0	0	0	0	109	0	0	78
South Atlantic	**0**	**0**	**0**	**75**	**4**	**0**	**0**	**3**
Delaware	0	0	0	0	56	0	0	0
Florida	0	0	0	118	10	0	1	6
Georgia	0	0	0	0	8	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	9	0	0	8
South Carolina	0	0	0	97	5	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	6	0	0	7
Kentucky	0	0	0	0	33	0	0	18
Mississippi	0	0	0	0	6	0	0	8
Tennessee	0	0	0	0	0	0	0	5
West South Central	**0**	**0**	**0**	**74**	**7**	**0**	**3**	**1**
Arkansas	0	0	0	126	14	0	0	14
Louisiana	0	0	0	0	9	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	86	17	0	5	2
Mountain	**0**	**0**	**0**	**47**	**6**	**0**	**0**	**5**
Arizona	0	0	0	63	63	0	0	63
Colorado	0	0	0	0	0	0	0	7
Idaho	0	0	0	139	1	0	0	12
Montana	0	0	0	0	0	0	0	75
Nevada	0	0	0	66	66	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	14
Pacific Contiguous	**0**	**0**	**0**	**20**	**10**	**0**	**6**	**2**
California	0	0	0	20	14	0	6	2
Oregon	0	0	0	0	20	0	0	18
Washington	0	0	0	0	15	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**24**
Alaska	0	0	0	0	0	0	0	4
Hawaii	0	0	0	0	0	0	0	39
U.S. Total	**0**	**0**	**0**	**16**	**3**	**0**	**1**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, July 2023

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

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

Table A.6.B. Relative Standard Error for Sales of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through July 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	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	1	0	0
Indiana	2	2	1	0	1
Michigan	0	0	2	0	0
Ohio	1	1	1	0	0
Wisconsin	1	0	2	0	1
West North Central	**1**	**1**	**1**	**0**	**1**
Iowa	1	1	2	0	1
Kansas	4	4	4	0	2
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	5	0	1
District of Columbia	0	0	0	0	0
Florida	1	2	3	0	1
Georgia	3	2	2	0	2
Maryland	1	0	2	0	0
North Carolina	2	2	2	0	1
South Carolina	3	3	2	0	1
Virginia	2	1	2	0	1
West Virginia	1	1	0	0	0
East South Central	**2**	**1**	**1**	**0**	**1**
Alabama	3	3	1	0	2
Kentucky	3	2	2	0	1
Mississippi	5	5	2	0	2
Tennessee	2	2	2	0	1
West South Central	**2**	**3**	**1**	**0**	**1**
Arkansas	4	4	2	0	2
Louisiana	3	3	1	0	1
Oklahoma	3	3	2	0	2
Texas	2	4	1	0	2
Mountain	**1**	**0**	**0**	**0**	**0**
Arizona	1	0	1	0	0
Colorado	3	1	1	0	1
Idaho	1	0	2	0	1
Montana	1	1	3	0	1
Nevada	1	0	0	0	0
New Mexico	4	1	1	0	1
Utah	3	1	1	0	1
Wyoming	1	1	2	0	1
Pacific Contiguous	**0**	**0**	**1**	**0**	**0**
California	1	0	0	0	0
Oregon	1	0	4	0	1
Washington	0	0	4	0	1
Pacific Noncontiguous	**0**	**1**	**2**	**0**	**1**
Alaska	1	1	7	0	2
Hawaii	0	0	0	0	0
U.S. Total	**1**	**1**	**0**	**0**	**0**

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

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, July 2023

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

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

Table A.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 July 2023

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

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

Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, July 2023

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

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

Table A.8.B. Relative Standard Error for Average Price of Electricity to Ultimate Customers

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**1**	**1**	**1**	**0**	**0**
Connecticut	1	1	2	0	0
Maine	1	1	1	0	0
Massachusetts	1	1	3	0	1
New Hampshire	1	1	1	0	1
Rhode Island	0	3	0	0	1
Vermont	5	4	5	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	1	0	0	0
East North Central	**1**	**0**	**1**	**0**	**0**
Illinois	1	1	1	0	0
Indiana	2	2	1	0	1
Michigan	0	0	1	0	0
Ohio	1	1	1	0	1
Wisconsin	0	0	2	0	1
West North Central	**1**	**1**	**1**	**0**	**1**
Iowa	1	1	2	0	1
Kansas	4	4	4	0	2
Minnesota	1	1	3	0	1
Missouri	2	2	3	0	1
Nebraska	1	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	2	1	5	0	1
District of Columbia	0	0	0	0	0
Florida	1	2	4	0	1
Georgia	3	2	3	0	2
Maryland	1	1	2	0	0
North Carolina	2	2	2	0	1
South Carolina	3	3	2	0	2
Virginia	2	1	3	0	1
West Virginia	1	1	0	0	0
East South Central	**2**	**1**	**1**	**0**	**1**
Alabama	3	3	2	0	2
Kentucky	3	2	2	0	2
Mississippi	5	5	3	0	3
Tennessee	2	2	3	0	1
West South Central	**2**	**4**	**1**	**0**	**1**
Arkansas	4	4	3	0	2
Louisiana	3	3	2	0	1
Oklahoma	4	3	3	0	2
Texas	2	5	1	0	2
Mountain	**1**	**0**	**1**	**0**	**0**
Arizona	1	0	1	0	0
Colorado	3	1	2	0	1
Idaho	0	1	2	0	1
Montana	1	1	3	0	1
Nevada	1	0	0	0	0
New Mexico	4	1	2	0	1
Utah	3	1	1	0	1
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**	**1**	**0**	**0**	**0**

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

Table 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 Count	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, UMERC, 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	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 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 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, UMERC, 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, UMERC, 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	Evergy	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;	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: 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	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	Evergy	SERC,MRO	Missouri: Kansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-- Weather or natural disaster	Unknown	72173

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/WEC C	Texas: Potter County; New Mexico:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2022	1	01/16/2022 5:15 AM	01/17/2022 12:06 AM	18 Hours, 51 Minutes	Southern Company	SERC	Georgia: Alabama:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	436	61113
2022	1	01/16/2022 12:05 PM	01/17/2022 8:45 AM	20 Hours, 40 Minutes	Duke Energy Carolinas	SERC	North Carolina: Jackson County; South Carolina: Greenville County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	51289
2022	1	01/16/2022 1:15 PM	01/16/2022 5:15 PM	4 Hours, 0 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	74638
2022	1	01/24/2022 10:27 AM	01/24/2022 10:51 AM	0 Hours, 24 Minutes	Public Utility District #1 of Chelan County (CHPD)	WECC	Washington: Chelan County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	0	0
2022	1	01/28/2022 3:41 PM	01/28/2022 9:30 PM	5 Hours, 49 Minutes	Public Service Company of Colorado	WECC	Colorado: Douglas County, Pueblo County, El Paso County, Prowers County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2022	1	01/29/2022 8:45 AM	01/30/2022 1:00 AM	16 Hours, 15 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Rhode Island: Vermont: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	120	12000
2022	2	02/01/2022 12:13 PM	02/01/2022 12:25 PM	0 Hours, 12 Minutes	Pacific Gas & Electric Co	WECC	California: Yuba County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	10	8124
2022	2	02/03/2022 10:00 AM	02/07/2022 8:00 PM	106 Hours, 0 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	255000
2022	2	02/03/2022 12:56 PM	. .	. Hours, . Minutes	American Electric Power	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	51000
2022	2	02/03/2022 12:56 PM	02/04/2022 8:30 PM	31 Hours, 34 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	51000
2022	2	02/04/2022 1:10 PM	. .	. Hours, . Minutes	Central Hudson Gas & Elec Corp	NPCC	New York: Ulster County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	67404
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	66448
2022	3	03/31/2022 12:04 AM	03/31/2022 9:20 AM	9 Hours, 16 Minutes	Southern Company	SERC	Georgia: Alabama: Mississippi: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	157	22000
2022	3	03/31/2022 8:59 AM	04/01/2022 7:30 PM	34 Hours, 31 Minutes	Detroit Edison Co	RF	Michigan: Huron County, Tuscola County, St. Clair County, Washtenaw County, Macomb County, Wayne County, Monroe County, Oakland County, Livingston County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	60	70000
2022	4	04/05/2022 4:40 AM	04/05/2022 5:21 PM	12 Hours, 41 Minutes	Evergy	SERC/RF	Missouri: Jackson County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	73	16299
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, Ulste	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 polic-Generation Inadequacy	Unknown	Unknown
2022	6	06/06/2022 10:21 AM	06/06/2022 10:24 AM	0 Hours, 3 Minutes	Pacific Gas & Electric Co	WECC	California: Shasta County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	13	4000
2022	6	06/08/2022 12:00 AM	06/08/2022 4:00 AM	4 Hours, 0 Minutes	Southwest Power Pool, Inc.	SERC/MRO	Kansas: Missouri: Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62000
2022	6	06/08/2022 1:00 AM	06/08/2022 4:00 AM	3 Hours, 0 Minutes	Southwest Power Pool, Inc.	SERC	Missouri:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Distribution Interruption	Unknown	60000
2022	6	06/08/2022 1:00 AM	06/08/2022 6:00 AM	5 Hours, 0 Minutes	Evergy	SERC/MRO	Missouri: Clay County, Jackson County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	911888
2022	6	06/10/2022 8:45 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	13437	445
2022	6	06/10/2022 12:08 PM	06/10/2022 9:30 PM	9 Hours, 22 Minutes	El Paso Electric	TRE	Texas: El Paso County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-Actual Physical Attack/Vandalism	0	0
2022	6	06/10/2022 8:20 PM	06/10/2022 8:28 PM	0 Hours, 8 Minutes	California ISO	WECC	California: Kern County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational polic-System Operations	100	Unknown
2022	6	06/10/2022 8:27 PM	06/10/2022 9:30 PM	1 Hours, 3 Minutes	Pacific Gas & Electric Co	WECC	California: Kern County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational polic-System Operations	100	39094
2022	6	06/12/2022 11:30 PM	06/13/2022 11:30 PM	24 Hours, 0 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	SERC/RF	Ohio: West Virginia: Virginia: Indiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	14000	100000
2022	6	06/13/2022 6:00 PM	06/14/2022 6:15 PM	24 Hours, 15 Minutes	Duke Energy Midwest	SERC/RF	Ohio: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	162551

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, UMERC, WEP-MIUP)	RF/MRO	Wisconsin: Outagamie County, Waupaca County, Winnebago County, Brown County, Sheboygan County, Ozaukee County, Waukesha County; Michigan: Iron County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	90	57000
2022	6	06/16/2022 4:31 PM	06/16/2022 8:07 PM	3 Hours, 36 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	77908
2022	6	06/17/2022 5:30 PM	06/19/2022 9:15 PM	51 Hours, 45 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	SERC/RF	West Virginia: Virginia: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	150000
2022	6	06/17/2022 5:37 PM	06/18/2022 12:54 AM	7 Hours, 17 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	91056
2022	6	06/17/2022 6:45 PM	06/18/2022 1:32 PM	18 Hours, 47 Minutes	Duke Energy Progress	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	44000
2022	6	06/20/2022 12:54 PM	06/20/2022 2:23 PM	1 Hours, 29 Minutes	Northern States Power Co	MRO	Minnesota: Hennepin County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	0	15604
2022	6	06/22/2022 4:56 PM	06/23/2022 2:00 AM	9 Hours, 4 Minutes	Dominion Energy VA	SERC/RF	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Distribution Interruption	Unknown	100000
2022	6	06/23/2022 10:55 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2022	6	06/24/2022 11:09 PM	06/25/2022 12:00 AM	0 Hours, 51 Minutes	Entergy Services, Inc.	SERC	Louisiana:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	Unknown	Unknown
2022	6	06/27/2022 2:26 PM	06/28/2022 3:56 AM	13 Hours, 30 Minutes	American Electric Power - Texas	TRE	Texas: Victoria County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather	14	2491
2022	7	07/04/2022 6:21 PM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Amador County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	3	3001
2022	7	07/06/2022 2:39 PM	07/07/2022 3:54 AM	13 Hours, 15 Minutes	Duke Energy Midwest	RF/SERC	Ohio: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	104700
2022	7	07/09/2022 2:47 AM	07/09/2022 2:59 AM	0 Hours, 12 Minutes	Cleco Power LLC	SERC	Louisiana: Rapides Parish;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	Unknown	4724
2022	7	07/10/2022 9:00 PM	07/11/2022 8:00 PM	23 Hours, 0 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-System Operations	Unknown	Unknown
2022	7	07/12/2022 4:00 PM	. .	. Hours, . Minutes	Baltimore Gas and Electric	RF	Maryland: Baltimore County, Carroll County, Harford County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	800	165000
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	91264
2022	8	08/03/2022 7:00 PM	08/05/2022 8:53 AM	37 Hours, 53 Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Washtenaw County, St. Clair County, Macomb County, Monroe County, Oakland County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	71000
2022	8	08/04/2022 6:00 PM	08/05/2022 2:00 AM	8 Hours, 0 Minutes	Baltimore Gas & Electric Co	RF	Maryland: Anne Arundel County, Baltimore County, Baltimore, City of[16];	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	75500
2022	8	08/09/2022 4:42 PM	08/09/2022 10:12 PM	5 Hours, 30 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-System Operations	Unknown	62464
2022	8	08/10/2022 1:25 AM	08/10/2022 1:30 AM	0 Hours, 5 Minutes	Entergy - Transmission Operations Engineering	SERC	Arkansas: Lawrence County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather	24	0
2022	8	08/10/2022 7:56 PM	08/11/2022 8:00 PM	24 Hours, 4 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	140464
2022	8	08/15/2022 11:43 PM	08/16/2022 7:14 AM	7 Hours, 31 Minutes	Western Area Power Administration - Rocky Mountain Region	WECC/MRO	Wyoming: Nebraska;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	5000
2022	8	08/22/2022 12:46 PM	08/22/2022 1:09 PM	0 Hours, 23 Minutes	LCRA TSC	TRE	Texas: DeWitt County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	24	6385
2022	8	08/22/2022 8:40 PM	08/22/2022 9:57 PM	1 Hours, 17 Minutes	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, Rockwall County, Williamson County, Denton County, Archer County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	190000
2022	9	09/04/2022 6:50 PM	09/05/2022 2:45 AM	7 Hours, 55 Minutes	Canadian Solar (USA) Energy Corporation	WECC	California: Kings County;	Cyber event that could potentially impact electric power system adequacy or reliability-Cyber Event	0	0
2022	9	09/06/2022 6:00 AM	09/06/2022 6:22 AM	0 Hours, 22 Minutes	Brownsville Public Utilities Board	TRE	Texas: Cameron County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	9	09/10/2022 10:30 PM	09/10/2022 10:31 PM	0 Hours, 1 Minutes	American Electric Power (Regulated Generation)	RF	Indiana: Spencer County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	Unknown	Unknown

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, UMERC, 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: Mississippi: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	386	54110
2022	11	11/30/2022 6:45 PM	12/02/2022 4:00 AM	33 Hours, 15 Minutes	ISO New England	NPCC	Maine: Massachusetts: Connecticut: Rhode Island: Vermont: New Hampshire:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	113	113000
2022	12	12/05/2022 6:20 PM	12/05/2022 6:55 PM	0 Hours, 35 Minutes	Constellation Energy Generation, LLC	RF	Pennsylvania: York County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/06/2022 12:00 AM	12/06/2022 12:01 AM	0 Hours, 1 Minutes	Southern Company	SERC	Georgia: Bartow County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/06/2022 12:00 AM	12/06/2022 12:01 AM	0 Hours, 1 Minutes	Southern Company	SERC	Georgia: Heard County;	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	0	0
2022	12	12/06/2022 8:15 AM	12/06/2022 12:15 PM	4 Hours, 0 Minutes	KeyCon Operating, LLC	RF	Pennsylvania:	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.-Suspicious Activity	1883	Unknown
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 anotherproduct.
- All monthly survey data are first disseminated as preliminary. These data are revised afterthe 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 includedperiodically 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 DistributionsReport,"
- Form EIA 860, "Annual Electric Generator Report,"
- Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and

- Form EIA 861, "Annual Electric Power Industry Report."

For access to these forms and their instructions, please see:
http://www.eia.gov/cneaf/electricity/page/forms.html.

In addition to the above-named forms, the historical data published in the EPM for periods prior to 2008 are compiled from the following sources:

- FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants,"
- Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"
- Form EIA-759, "Monthly Power Plant Report,"
- Form EIA-860A, "Annual Electric Generator Report–Utility,"
- Form EIA-860B, "Annual Electric Generator Report–Nonutility,"
- Form EIA-900, "Monthly Nonutility Power Report,"
- Form EIA-906, "Power Plant Report," and
- Form EIA-920, "Combined Heat and Power Plant Report."

See Appendix A of the historical Electric Power Annual reports to find descriptions of forms that are no longer in use. The publications can be found from the top of the current EPA under previous issues: http://www.eia.gov/electricity/annual.

Rounding rules for data: To round a number to n digits (decimal places), add one unit to the nth digit if the (n+1) digit is 5 or larger and keep the nth digit unchanged if the (n+1) digit is less than 5. The symbol for a number rounded to zero is (*).

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

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

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 estimates[1].

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

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

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

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

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

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

Form EIA-860

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

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

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

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

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

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

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

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

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

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

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
	WO	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)
Natural Gas and Other Gases	BFG	Blast Furnace Gas
	NG	Natural Gas
	OG	Other Gas
Nuclear	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT (Prime Mover = HY)	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
Hydroelectric Pumped Storage	WAT (Prime Mover = PS)	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine
Wood and Wood-Derived Fuels	WDS	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood wastesolids)
	WDL	Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and otherwood-based liquids)
	BLQ	Black Liquor
Other Biomass	AB	Agricultural By-Products
	MSW	Municipal Solid Waste
	OBG	Other Biomass Gas (including digester gas, methane, andother biomass gases)
	OBL	Other Biomass Liquids
	OBS	Other Biomass Solids
	LFG	Landfill Gas
	SLW	Sludge Waste
Other Renewable Energy Sources	SUN	Solar (including solar thermal)
	WND	Wind
	GEO	Geothermal
Other Energy Sources	PUR	Purchased Steam
	WH	Waste heat not directly attributed to a fuel source
	TDF	Tire-Derived Fuels
	MWH	Electricity used for energy storage

OTH	Other

Sensitive data: The tested heat rate data collected on the Form EIA-860 are considered business sensitive.

Form EIA-860M

The Form EIA 860M, "Monthly Update to the Annual Electric Generator Report," is a mandatory monthly survey that collects data on the status of proposed new generators or changes to existing generators for plants that report on Form EIA-860.

The Form EIA-860M has a rolling frame based upon planned changes to capacity as reported on the previous Form EIA-860. Respondents are added to the frame 12 months prior to the expected effective date for all new units or expected retirement date for existing units. For all other types of capacity changes (including retirements, uprates, derates, repowering, or other modifications), respondents are added 1 month prior to the anticipated modification change date. Respondents are removed from the frame at the completion of the changes or if the change date is moved back so that the plant no longer qualifies to be in the frame. Typically, 150 to 200 utilities per month are required to report for 175 to 250 plants (including 250 to 400 generating units) on this form. The unit characteristics of interest are changes to the previously reported planned operating month and year, prime mover type, capacity, and energy sources.

Instrument and design history: The data collected on Form EIA-860M was originally collected via phone calls at the end of each month. During 2005, the Form EIA-860M was introduced as a mandatory form using the Internet Data Collection (IDC) system.

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Approximately 150 to 200 utilities are requested to provide data each month on the Form EIA 860M. These data are collected via the IDC system and automatically checked for certain errors. Most of the quality assurance issues are addressed by the respondents as part of the automatic edit check process. In some cases, respondents are subsequently contacted about their explanatory overrides to the edit checks.

Sensitive data: Data collected on the Form EIA-860M are not considered to be sensitive.

Form EIA-861

The Form EIA 861, "Annual Electric Power Industry Report," is a mandatory census of electric power industry participants in the United States. The survey is used to collect information on power sales and revenue data from approximately 3,300 respondents. About 3,200 are electric utilities and the remainder are nontraditional utilities such as energy service providers or the unregulated subsidiaries of electric utilities and power marketers.

Instrument and design history: The Form EIA 861 was implemented in January 1985 for collection of data as of year end 1984. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

Data processing and data system editing: The Form EIA 861 is made available to the respondents in January of each year to collect data as of the end of the preceding calendar year. The data are edited when entered into the interactive on line system. Internal edit checks are per-formed to verify that current data total across and between schedules, and are comparable to data reported the previous year. Edit checks are also performed to compare data reported on the Form EIA 861 and similar data reported on the Form EIA 826. Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

Data for the Form EIA 861 are collected at the owner level from all electric utilities including energy service providers in the United States, its territories, and Puerto Rico. Form EIA 861 data in this report are for the United States only.

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

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

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

Sensitive data: Data collected on the Form EIA-861 are not considered to be sensitive.

Form EIA-923

Form EIA-923, “Power Plant Operations Report,” is a monthly collection of data on receipts and cost of fossil fuels, fuel stocks, generation, consumption of fuel for generation, and environmental data (e.g. emission controls and cooling systems). Data are collected from a monthly sample of approximately 1,900 plants, which includes a census of nuclear and pumped-storage hydroelectric plants. In addition approximately 4,050 plants, representing all other generators 1 MW or greater, are collected annually. In addition to electric power generating plants, respondents include fuel storage terminals without

generating capacity that receive shipments of fossil fuels for eventual use in electric power generation. The monthly data are due by the last day of the month following the reporting period.

Receipts of fossil fuels, fuel cost and quality information, and fuel stocks at the end of the reporting period are all reported at the plant level. Plants that burn organic fuels and have a steam turbine capacity of at least 10 megawatts report consumption at the boiler level and generation at the generator level. For all other plants, consumption is reported at the prime-mover level. For these plants, generation is reported either at the prime-mover level or, for noncombustible sources (e.g. wind, nuclear), at the prime-mover and energy source level. The source and disposition of electricity is reported annually for nonutilities at the plant level as is revenue from sales for resale. Environmental data are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts.

Instrument and design history:

Receipts and cost and quality of fossil fuels
On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate- capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see above) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing non-regulated power producers. Its design closely followed that of the FERC Form 423.

Both the Form EIA-423 and FERC Form 423 were superseded by Schedule 2 of the Form EIA-923 in January of 2008. At the time, the Form EIA-923 maintained the 50-megawatt threshold for these data. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self- produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts.

Not all data are collected monthly on the Form EIA-923. Beginning with 2008 data, a sample of the respondents report monthly, with the remainder reporting annually. Until January 2013, monthly fuel receipts values for the annual surveys were imputed via regression. Prior to 2008, Schedule 2 annual data were not collected or imputed.

Generation, consumption, and stocks

The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities14. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data15. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Forms EIA-906 and EIA-920 were superseded by survey Form EIA-923 beginning in January 2008 with the collection of annual 2007 data and monthly 2008 data.

Data processing and data system editing: Respondents are encouraged to enter data directly into a computerized database via the Internet Data Collection (IDC) system. A variety of automated quality control mechanisms are run during this process, such as range checks and comparisons with historical data. These edit checks are performed as the data are provided, and many problems that are encountered are resolved during the reporting process. Those plants that are unable to use the electronic reporting medium provide the data in hard copy, typically via fax. These data are manually entered into the computerized database. The data are subjected to the same edits as those that are electronically submitted.

If the reported data appear to be in error and the data issue cannot be resolved by follow up contact with the respondent, or if a facility is a nonrespondent, a regression methodology is used to impute for the facility. Beginning in January 2013, imputation is not performed for fuel receipts data reported on Schedule 2.

Imputation: For select survey data elements collected monthly, regression prediction, or imputation, is done for missing data, including non-sampled units and any non-respondents. For data collected annually, imputation is performed for non-respondents. For gross generation and total fuel

consumption, multiple regression is used for imputation (see discussion, above). Only approximately 0.02 percent of the national total generation for 2010 is imputed, although this will vary by State and energy source.

When gross generation is reported and net generation is not available, net generation is estimated by using a fixed ratio to gross generation by prime-mover type and installed environmental equipment. These ratios are:

Net Generation = (Factor) x Gross Generation
Prime Movers:
Combined Cycle Steam - 0.97
Combined Cycle Single Shaft - 0.97
Combined Cycle Combustion Turbine - 0.97
Compressed Air - 0.97
Fuel Cell - 0.99
Gas Turbine - 0.98
Hydroelectric Turbine - 0.99
Hydroelectric Pumped Storage - 0.99
Internal Combustion Engine - 0.98
Other - 0.97
Photovoltaic - 0.99
Steam Turbine - 0.97
Wind Turbine - 0.99
Environmental Equipment:
Flue Gas Desulfurization - 0.97
Flue Gas Particulate 0.99
All Others - 0.97

For stocks, a linear combination of the prior month's ending stocks value and the current month's consumption and receipts values are used.

Receipts of fossil fuels: Receipts data, including cost and quality of fuels, are collected at the plant level from selected electric generating plants and fossil-fuel storage terminals in the United States. These plants include independent power producers, electric utilities, and commercial and industrial combined heat and power producers. All plants with a total fossil-fueled nameplate capacity of 50 megawatts or more (excluding storage terminals, which do not produce electricity) were required to report receipts of fossil fuels. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The data on cost and quality of fuel shipments are used to produce aggregates and weighted averages for each fuel type at the state, Census division, and U.S. levels.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton. For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic foot.

Power production, fuel stocks, and fuel consumption data: The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906.

In January 2008, Form EIA-923 superseded both the Forms EIA-906 and EIA-920 for the collection of these data.

Methodology to estimate biogenic and non-biogenic municipal solid waste[2]: Municipal solid waste (MSW) consumption for generation of electric power is split into its biogenic and non-biogenic components beginning with 2001 data by the following methodology (see Table 1):

The tonnage of MSW consumed is reported on the Form EIA-923. The composition of MSW and categorization of the components were obtained from the U.S. Environmental Protection Agency (USEPA). For data years 2001 through 2009, the MSW composition was based on the USEPA annual publication, *Municipal Solid Waste in the United States: Facts and Figures*. The compositions developed for the 2009 data year were carried forward for the 2010 through 2018 data years. The most updated composition and categorization of MSW (for the 2019 data year) were also derived from a USEPA publication: *Advancing Sustainable Materials Management: Facts and Figures Report: 2015 Data Tables*. The updated composition values were applied in the October EPM 2019 on the preliminary 2019 values and will be applied going forward in future data years until EIA revises the MSW composition ratios again. The Btu contents of the components of MSW were obtained from various sources.

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

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

The potential quantities of combustible MSW discards (which include all MSW material available for combustion with energy recovery, discards to landfill, and other disposal) were multiplied by their respective Btu contents. The EPA-based categories of MSW were then classified into renewable and non-renewable groupings. From this, EIA calculated how much of the energy potentially consumed from MSW was attributed to biogenic components and how much was attributed to non-biogenic components (see Tables 1 and 2, below). [3]

These values are used to allocate net generation published in the Electric Power Monthly generation tables. The tons of biogenic and non-biogenic components were estimated with the assumption that glass and metals were removed prior to combustion. The average Btu/ton for the biogenic and non-biogenic components is estimated by dividing the total Btu consumption by the total tons. Published net generation attributed to biogenic MSW and non-biogenic MSW is classified under Other Renewables and Other, respectively.

Table 1. Btu consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	…	2018	2019
Biogenic	57	56	55	55	56	57	55	54	51	51	51	45
Non-biogenic	43	44	45	45	44	43	46	46	49	49	49	55

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

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

Useful thermal output: With the implementation of the Form EIA-923, "Power Plant Operations Report," in 2008, combined heat and power (CHP) plants are required to report total fuel consumed and electric power generation. Beginning with the January 2008 data, EIA will estimate the allocation of the total fuel consumed at CHP plants between electric power generation and useful thermal output.

First, an efficiency factor is determined for each plant and prime mover type. Based on data for electric power generation and useful thermal output collected in 2003 (on Form EIA-906, "Power Plant Report") efficiency was calculated for each prime mover type at a plant. The efficiency factor is the total output in Btu, including electric power and useful thermal output (UTO), divided by the total input in Btu. Electric power is converted to Btu at 3,412 Btu per kilowatthour.

Second, to calculate the amount of fuel for electric power, the gross generation in Btu is multiplied by the efficiency factor. The fuel for UTO is the difference between the total fuel reported and the fuel for

electric power generation. UTO is calculated by multiplying the fuel for UTO by the efficiency factor.

In addition, if the total fuel reported is less than the estimated fuel for electric power generation, then the fuel for electric power generation is equal to the total fuel consumed, and the UTO will be zero.

Conversion of petroleum coke to liquid petroleum: The quantity conversion is 5 barrels (of 42 U.S. gallons each) per short ton (2,000 pounds).

Conversion of propane gas to liquid petroleum: The quantity conversion is 1.53 Mcf (thousand cubic feet) per barrel (or 42 U.S. gallons each).

Conversion of synthesis gas from coal to coal: The quantity conversion is 98 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Conversion of synthesis gas from petroleum coke to petroleum coke: The quantity conversion is 107.42 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Issues within historical data series:

Receipts and cost and quality of fossil fuels
Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

Historical data collected on FERC Form 423 and published by EIA have been reviewed for consistency between volumes and prices and for their consistency over time. However, these data were collected by FERC for regulatory rather than statistical and publication purposes. EIA did not attempt to resolve any late filing issues in the FERC Form 423 data. In 2003, EIA introduced a procedure to estimate for late or non-responding entities due to report on the FERC Form 423. Due to the introduction of this procedure, 2003 and later data cannot be directly compared to previous years' data. In January 2013, this estimation procedure was dropped.

Prior to 2008, regulated plants reported receipts data on the FERC Form 423. These plants, along with unregulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to the FERC Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined-cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Starting with the revised data for 2008, tables for total receipts begin to reflect estimation for all plants with capacity over 1 megawatt, to be consistent with other electric power data. Previous receipts data published have been a legacy of their original collection as information for a regulatory agency, not as a survey to provide more meaningful estimates of totals for statistical purposes. Totals appeared to become smaller as more electric production came from unregulated plants, until the Form EIA-423 was created to help fill that gap. As a further improvement, estimation of all receipts for the universe normally depicted in the EPM (i.e., 1 megawatt and above), with associated relative standard errors, provides a more complete assessment of the market.

Generation and consumption

Beginning in 2008, a new method of allocating fuel consumption between electric power generation and useful thermal output (UTO) was implemented. This new methodology evenly distributes a combined heat and power (CHP) plant's losses between the two output products (electric power and UTO). In the historical data, UTO was consistently assumed to be 80 percent efficient and all other losses at the plant were allocated to electric power. This change causes the fuel for electric power to be decreased while the fuel for UTO is increased as both are given the same efficiency. This results in the appearance of an increase in efficiency of production of electric power between periods.

Sensitive data: Most of the data collected on the Form EIA-923 are not considered business sensitive. However, the cost of fuel delivered to nonutilities, commodity cost of fossil fuels, and reported fuel stocks at the end of the reporting period are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Average Capacity Factors

This section describes the methodology for calculating capacity factors by fuel and technology type for operating electric power plants. Capacity factor is a measure (expressed as a percent) of how often an electric generator operates over a specific period of time, using a ratio of the actual output to the maximum possible output over that time period.

The capacity factor calculation only includes operating electric generators in the Electric Power Sector (sectors 1, 2 and 3) using the net generation reported on the Form EIA-923 and the net summer capacity reported on the Form EIA-860. The capacity factor for a particular fuel/technology type is given by:

$$CapacityFactor = \left(\frac{\Upsilon_{x,m} \sum Generation_{x,m}}{\sum_{x,m} Capacity_{x,m} * AvailableTime_{x,m}} \right)$$

Where x represents generators of that fuel/technology combination and m represents the period of time (month or year). Generation and capacity are specific to a generator, and the generator is categorized by its primary fuel type as reported on the EIA-860. All generation from that generator is included, regardless of other fuels consumed. Available time is also specific to the generator in order to account for differing online and retirement dates. Therefore, these published capacity factors will differ from a simple calculation using annual generation and capacity totals from the appropriate tables in this publication.

NERC classification

The Florida Reliability Coordinating Council (FRCC) separated itself from the Southeastern Electric Reliability Council (SERC) in the mid-1990s. In 1998, several utilities realigned from Southwest Power Pool (SPP) to SERC. Name changes altered both the Mid-Continent Area Power Pool (MAPP) to the Midwest Reliability Organization (MRO) and the Western Systems Coordinating Council (WSCC) to the Western Energy Coordinating Council (WECC). The MRO membership boundaries have altered over time, but WECC membership boundaries have not. The utilities in the associated regional entity identified as the Alaska System Coordination Council (ASCC) dropped their formal participation in NERC. Both the States of Alaska and Hawaii are not contiguous with the other continental States and have no electrical interconnections. At the close of calendar year 2005, the following reliability regional councils were dissolved: East Central Area Reliability Coordinating Agreement (ECAR), Mid-Atlantic Area Council (MAAC), and Mid-America Interconnected Network (MAIN).

On January 1, 2006, the ReliabilityFirst Corporation (RFC) came into existence as a new regional reliability council. Individual utility membership in the former ECAR, MAAC, and MAIN councils mostly shifted to RFC. However, adjustments in membership as utilities joined or left various reliability councils impacted MRO, SERC, and SPP. The Texas Regional Entity (TRE) was formed from a delegation of authority from NERC to handle the regional responsibilities of the Electric Reliability Council of Texas (ERCOT). The revised delegation agreements covering all the regions were approved by the Federal Energy Regulatory Commission on March 21, 2008. Reliability Councils that are unchanged include: Florida Reliability Coordinating Council (FRCC), Northeast Power Coordinating Council (NPCC), and the Western Energy Coordinating Council (WECC

The new NERC Regional Council names are as follows:

- Florida Reliability Coordinating Council (FRCC),
- Midwest Reliability Organization (MRO),
- Northeast Power Coordinating Council (NPCC),
- ReliabilityFirst Corporation (RFC),
- Southeastern Electric Reliability Council (SERC),
- Southwest Power Pool (SPP),
- Texas Regional Entity (TRE), and
- Western Energy Coordinating Council (WECC).

Business classification

Nonutility power producers consist of corporations, persons, agencies, authorities, or other legal entities that own or operate facilities for electric generation but are not electric utilities. This includes qualifying cogenerators, small power producer, and independent power producers. Furthermore, nonutility power producers do not have a designated franchised service area. In addition to entities whose primary business is the production and sale of electric power, entities with other primary business classifications can and do sell electric power. These can consist of manufacturing, agricultural, forestry, transportation, finance, service and administrative industries, based on the Office of Management and Budget's Standard Industrial Classification (SIC) Manual. In 1997, the SIC Manual name was changed to North American Industry Classification System (NAICS). The following is a list of the main classifications and the category of primary business activity within each classification.

Agriculture, Forestry, and Fishing

111 Agriculture production-crops
112 Agriculture production, livestock and animal specialties
113 Forestry
114 Fishing, hunting, and trapping
115 Agricultural services

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining
2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

311 Food and kindred products
3122 Tobacco products
314 Textile and mill products
315 Apparel and other finished products made from fabrics and similar materials
316 Leather and leather products
321 Lumber and wood products, except furniture
322 Paper and allied products (other than 322122 or 32213)
322122 Paper mills, except building paper
32213 Paperboard mills
323 Printing and publishing
324 Petroleum refining and related industries (other than 32411)
32411 Petroleum refining
325 Chemicals and allied products (other than 325188, 325211, 32512, or 325311)
32512 Industrial organic chemicals

325188 Industrial Inorganic Chemicals
325211 Plastics materials and resins
325311 Nitrogenous fertilizers
326 Rubber and miscellaneous plastic products
327 Stone, clay, glass, and concrete products (other than 32731)
32731 Cement, hydraulic
331 Primary metal industries (other than 331111 or 331312)
331111 Blast furnaces and steel mills
331312 Primary aluminum
332 Fabricated metal products, except machinery and transportation equipment
333 Industrial and commercial equipment and components except computer equipment
3345 Measuring, analyzing, and controlling instruments, photographic, medical, and optical goods, watches and clocks
335 Electronic and other electrical equipment and components except computer equipment
336 Transportation equipment
337 Furniture and fixtures
339 Miscellaneous manufacturing industries

Transportation and Public Utilities

22 Electric, gas, and sanitary services
2212 Natural gas transmission
2213 Water supply
22131 Irrigation systems
22132 Sewerage systems
481 Transportation by air
482 Railroad transportation
483 Water transportation
484 Motor freight transportation and warehousing
485 Local and suburban transit and interurban highway passenger transport
486 Pipelines, except natural gas
487 Transportation services
491 United States Postal Service
513 Communications
562212 Refuse systems

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

512 Motion pictures
514 Business services
514199 Miscellaneous services

541 Legal services
561 Engineering, accounting, research, management, and related services
611 Education services
622 Health services
624 Social services
712 Museums, art galleries, and botanical and zoological gardens
713 Amusement and recreation services
721 Hotels
811 Miscellaneous repair services
8111 Automotive repair, services, and parking
812 Personal services
813 Membership organizations
814 Private households

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

Monthly generation from small scale PV solar resources is an estimation of the generation produced from PV solar resources and not the results of a data collection effort for generation directly, with the exception of "Third Party Owned" or (TPO) solar installations which has direct data collection. TPO data however is not comprehensive. TPOs do not operate in every state, TPO collected data is not a large portion of the estimated amount, and the data has been collected for limited period of time. The generation estimate is based on data collected for PV solar capacity.

Capacity of PV solar resources is collected directly from respondents. These data are collected on several EIA forms and from several types of respondents. Monthly data for net-metered PV solar capacity is reported on the Form EIA-826. Form EIA-826 is a cutoff sample drawn from the annual survey Form EIA-861 which collects this data from all respondents. Using data from both of these surveys we have a regression model to impute for the non-sampled monthly capacity.

The survey instruments collect solar net metering capacity from reporting utilities by state and customer class. There are four customer classes: residential, commercial, industrial and transportation. However, the estimation process included only the residential, commercial and industrial customers.[1] Data for these customer classes were further classified by U.S. Census Regions, to ensure adequate number of customer observations in for each estimation group.

Estimation Model: The total PV capacity reported by utilities in the annual EIA-861 survey is the single primary input (regressor) to the monthly estimation of PV capacity by state. The model tested for each Census Region was of the form:

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

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

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

w_i is the weight factor, which is the inverse of x_{2013}

β_1 is effectively the growth rate of reported month m solar PV capacity

e_i is the error term

The model checks for outliers and removes them from the regression equation inputs. The model calculates RSEs by sector, state, census region, and US total. Once we have imputed for all of the monthly net-metered PV solar capacity we add to total net metered capacity, the PV solar capacity collected on the Form EIA-861 for distributed and dispersed resources that are not net metered.

We use a second model to estimate the generation using this capacity as an input. The original methodology was developed for the "Annual Energy Outlook" based on our "NEMS" modelled projections several years ago. The original method underwent a calibration project designed to develop PV production levels for the NEMS projections consistent with simulations of a National Renewable Energy Laboratory model called PVWatts, which is itself embedded in PC software under the umbrella of the NREL's System Advisor Model (SAM).

The PVWatts simulations require, panel azimuth orientations and tilts, something that the NEMS projections do not include. Call the combinations of azimuths and tilts "orientations." The orientation and solar insolation (specific to a location) have a direct effect on the PV production level. The calibration project selected the 100 largest population Metropolitan Statistical Areas (MSAs) and relied on weights derived from orientation data from California Solar Initiative dataset to develop typical outputs for each of the 100 MSAs. It then was expanded from an annual estimate to a monthly estimate. A listing of the MSAs are included in Appendix 1.

Using Form EIA-861 data for service territories, which lists the counties that each electric distribution company (EDC) provides service, and NREL solar insolation data by county a simple average of insolation values by EDC is calculated.

Using the estimation model, we produce by utility, by state and by sector an estimate of generation. All the utilities'' capacity and generation estimates are summed by state and sector and a KWh/KW rate by state and sector is calculated.

Capacity from the Form EIA-860 that is net metered is subtracted from the total capacity by state and sector as well as the capacity reported on the EIA-826 from TPOs, resulting in a new "net" capacity amount. This capacity amount is multiplied by the KWh/KW rate to produce the non-TPO generation estimate and then it is added to the TPO reported sales to ultimate customers from the EIA-826 to obtain a final estimate for generation and a blended KWh/KW rate is calculated. The estimate for generation is aggregated by US census regions and US totals. The RSEs for capacity are checked for level of error and if they pass, the summary data by state, U.S. census region and U.S. total are reported in the EPM.

Appendix 2 contains a flow diagram of the data inputs, data quality control checks and data analysis required to perform this estimation.

Appendix 1- MSAs

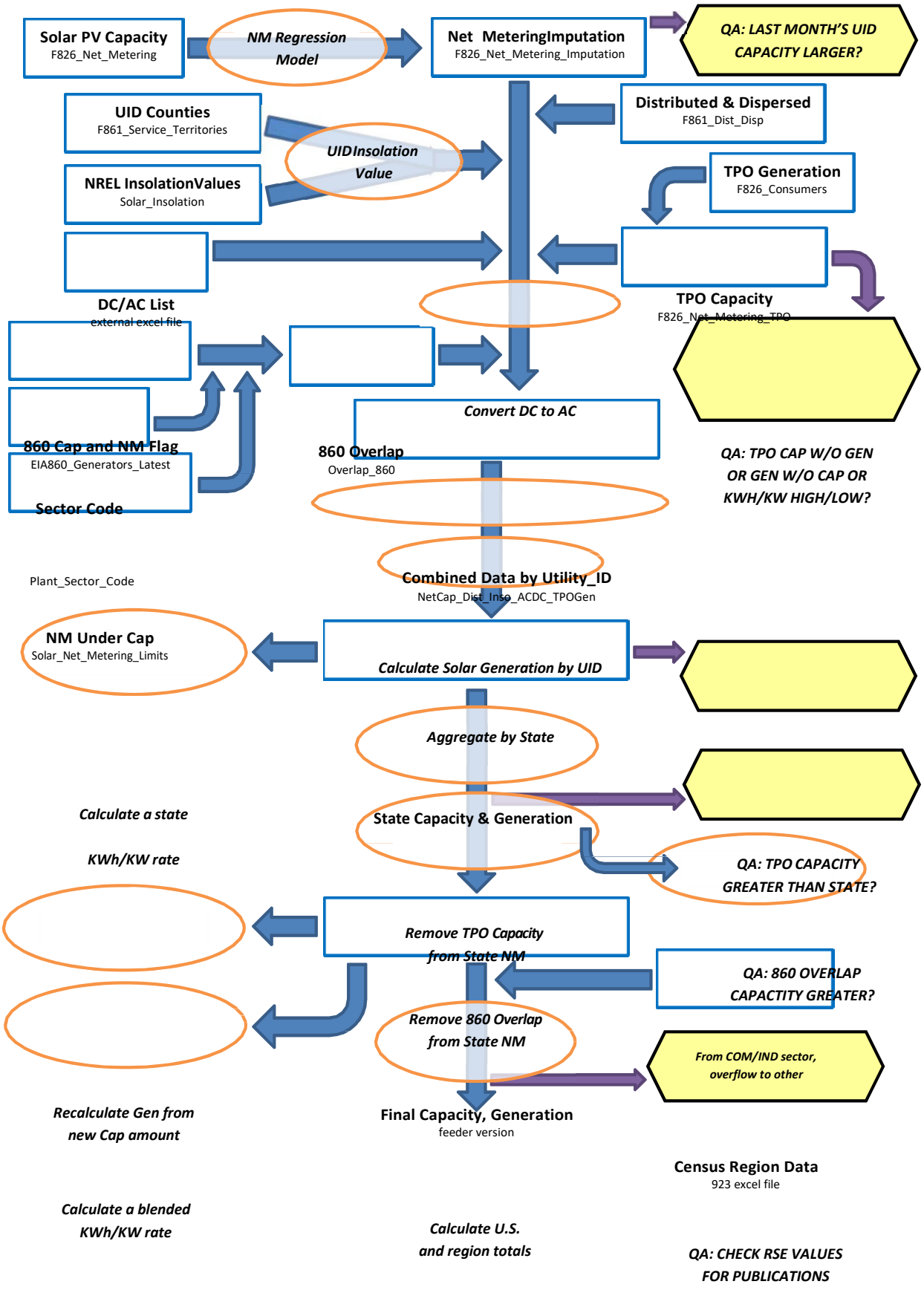
TMY3 (1991-2005) Weather Stations by MSA

Site	Weather Location	MSA
1	USA NY New York Central Park Obs.	New York-Newark-Jersey City, NY-NJ-PA MSA
2	USA CA Los Angeles Intl Airport	Los Angeles-Long Beach-Anaheim, CA MSA
3	USA IL Chicago Midway Airport	Chicago-Naperville-Elgin, IL-IN-WI MSA
4	USA TX Dallas-fort Worth Intl Airport	Dallas-Fort Worth-Arlington, TX MSA
5	USA TX Houston Bush Intercontinental	Houston-The Woodlands-Sugar Land, TX MSA
6	USA PA Philadelphia Int'l Airport	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA
7	USA VA Washington Dc Reagan Airport	Washington-Arlington-Alexandria, DC-VA-MD-WV MSA
8	USA FL Miami Intl Airport	Miami-Fort Lauderdale-West Palm Beach, FL MSA
9	USA GA Atlanta Hartsfield Intl Airport	Atlanta-Sandy Springs-Roswell, GA MSA
10	USA MA Boston Logan Int'l Airport	Boston-Cambridge-Newton, MA-NH MSA
11	USA CA San Francisco Intl Airport	San Francisco–Oakland–Hayward, CA MSA
12	USA AZ Phoenix Sky Harbor Intl Airport	Phoenix-Mesa-Scottsdale, AZ MSA
13	USA CA Riverside Municipal Airport	Riverside-San Bernardino-Ontario, CA MSA
14	USA MI Detroit City Airport	Detroit-Warren-Dearborn, MI MSA
15	USA WA Seattle Seattle-Tacoma Intl Airport	Seattle-Tacoma-Bellevue, WA MSA
16	USA MN Minneapolis-St. Paul Int'l Arp	Minneapolis-St. Paul-Bloomington, MN-WI MSA
17	USA CA San Diego Lindbergh Field	San Diego-Carlsbad, CA MSA
18	USA FL Tampa Int'l Airport	Tampa-St. Petersburg-Clearwater, FL MSA
19	USA MO St Louis Lambert Int'l Airport	St. Louis, MO-IL MSA
20	USA MD Baltimore-Washington Int'l Airport	Baltimore-Columbia-Towson, MD MSA
21	USA CO Denver Centennial [Golden - NREL]	Denver-Aurora-Lakewood, CO MSA
22	USA PA Pittsburgh Allegheny Co Airport	Pittsburgh, PA MSA
23	USA NC Charlotte Douglas Intl Airport	Charlotte-Concord-Gastonia, NC-SC MSA
24	USA OR Portland Hillsboro	Portland-Vancouver-Hillsboro, OR-WA MSA
25	USA TX San Antonio Intl Airport	San Antonio-New Braunfels, TX MSA
26	USA FL Orlando Intl Airport	Orlando-Kissimmee-Sanford, FL MSA
27	USA CA Sacramento Executive Airport	Sacramento–Roseville–Arden-Arcade, CA MSA
28	USA OH Cincinnati Municipal Airport	Cincinnati, OH-KY-IN MSA
29	USA OH Cleveland Hopkins Intl Airport	Cleveland-Elyria, OH MSA
30	USA MO Kansas City Int'l Airport	Kansas City, MO-KS MSA
31	USA NV Las Vegas McCarran Intl Airport	Las Vegas-Henderson-Paradise, NV MSA
32	USA OH Columbus Port Columbus Intl A	Columbus, OH MSA
33	USA IN Indianapolis Intl Airport	Indianapolis-Carmel-Anderson, IN MSA
34	USA CA San Jose Intl Airport	San Jose-Sunnyvale-Santa Clara, CA MSA
35	USA TX Austin Mueller Municipal Airport	Austin-Round Rock, TX MSA
36	USA TN Nashville Int'l Airport	Nashville-Davidson–Murfreesboro–Franklin, TN MSA

37	USA VA Norfolk Int'l Airport	Virginia Beach-Norfolk-Newport News, VA-NC MSA
38	USA RI Providence T F Green State	Providence-Warwick, RI-MA MSA
39	USA WI Milwaukee Mitchell Intl Airport	Milwaukee-Waukesha-West Allis, WI MSA
40	USA FL Jacksonville Craig	Jacksonville, FL MSA
41	USA TN Memphis Int'l Airport	Memphis, TN-MS-AR MSA
42	USA OK Oklahoma City Will Rogers	Oklahoma City, OK MSA
43	USA KY Louisville Bowman Field	Louisville/Jefferson County, KY-IN MSA
44	USA VA Richmond Int'l Airport	Richmond, VA MSA
45	USA LA New Orleans Alvin Callender	New Orleans-Metairie, LA MSA
46	USA CT Hartford Bradley Intl Airport	Hartford-West Hartford-East Hartford, CT MSA
47	USA NC Raleigh Durham Int'l	Raleigh, NC MSA
48	USA UT Salt Lake City Int'l Airport	Salt Lake City, UT MSA
49	USA AL Birmingham Municipal Airport	Birmingham-Hoover, AL MSA
50	USA NY Buffalo Niagara Intl Airport	Buffalo-Cheektowaga-Niagara Falls, NY MSA
51	USA NY Rochester Greater Rochester	Rochester, NY MSA
52	USA MI Grand Rapids Kent County Int'l Airport	Grand Rapids-Wyoming, MI MSA
53	USA AZ Tucson Int'l Airport	Tucson, AZ MSA
54	USA HI Honolulu Intl Airport	Urban Honolulu, HI MSA
55	USA OK Tulsa Int'l Airport	Tulsa, OK MSA
56	USA CA Fresno Yosemite Intl Airport	Fresno, CA MSA
57	USA CT Bridgeport Sikorsky Memorial	Bridgeport-Stamford-Norwalk, CT MSA
58	USA MA Worchester Regional Airport	Worcester, MA-CT MSA
59	USA NM Albuquerque Intl Airport	Albuquerque, NM MSA
60	USA NE Omaha Eppley Airfield	Omaha-Council Bluffs, NE-IA MSA
61	USA NY Albany County Airport	Albany-Schenectady-Troy, NY MSA
62	USA CA Bakersfield Meadows Field	Bakersfield, CA MSA
63	USA CT New Haven Tweed Airport	New Haven-Milford, CT MSA
64	USA TN Knoxville McGhee Tyson Airport	Knoxville, TN MSA
65	USA SC Greenville Downtown Airport	Greenville-Anderson-Mauldin, SC MSA
66	USA CA Oxnard Airport	Oxnard-Thousand Oaks-Ventura, CA MSA
67	USA TX El Paso Int'l Airport	El Paso, TX MSA
68	USA PA Allentown Lehigh Valley Intl	Allentown-Bethlehem-Easton, PA-NJ MSA
69	USA LA Baton Rouge Ryan Airport	Baton Rouge, LA MSA
70	USA TX McCallen Miller Intl Airport	McAllen-Edinburg-Mission, TX MSA
71	USA OH Dayton Int'l Airport	Dayton, OH MSA
72	USA SC Columbia Metro Airport	Columbia, SC MSA
73	USA NC Greensboro Piedmont Triad Int'l Airport	Greensboro-High Point, NC MSA
74	USA FL Sarasota Bradenton	North Port-Sarasota-Bradenton, FL MSA
75	USA AR Little Rock Adams Field	Little Rock-North Little Rock-Conway, AR MSA
76	USA SC Charleston Intl Airport	Charleston-North Charleston, SC MSA
77	USA OH Akron Akron-canton Reg. Airport	Akron, OH MSA
78	USA CA Stockton Metropolitan Airport	Stockton-Lodi, CA MSA

79	USA CO Colorado Springs Muni Airport	Colorado Springs, CO MSA
80	USA NY Syracuse Hancock Int'l Airport	Syracuse, NY MSA
81	USA FL Fort Myers Page Field	Cape Coral-Fort Myers, FL MSA
82	USA NC Winston-Salem Reynolds Airport	Winston-Salem, NC MSA
83	USA ID Boise Air Terminal	Boise City, ID MSA
84	USA KS Wichita Mid-continent Airport	Wichita, KS MSA
85	USA WI Madison Dane Co Regional Airport	Madison, WI MSA
86	USA MA Worchester Regional Airport	Springfield, MA MSA
87	USA FL Lakeland Linder Regional Airport	Lakeland-Winter Haven, FL MSA
88	USA UT Ogden Hinkley Airport	Ogden-Clearfield, UT MSA
89	USA OH Toledo Express Airport	Toledo, OH MSA
90	USA FL Daytona Beach Intl Airport	Deltona-Daytona Beach-Ormond Beach, FL MSA
91	USA IA Des Moines Intl Airport	Des Moines-West Des Moines, IA MSA
92	USA GA Augusta Bush Field	Augusta-Richmond County, GA-SC MSA
93	USA MS Jackson Int'l Airport	Jackson, MS MSA
94	USA UT Provo Muni	Provo-Orem, UT MSA
95	USA PA Wilkes-Barre Scranton Intl Airport	Scranton–Wilkes-Barre–Hazleton, PA MSA
96	USA PA Harrisburg Capital City Airport	Harrisburg-Carlisle, 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



[1] The basic technique employed is described in the paper "Model-Based Sampling and Inference," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). See the following sources: Knaub, J.R., Jr. (1999a), "Using Prediction-Oriented Software for Survey Estimation," InterStat, October 1999, http://interstat.statjournals.net/; Knaub, J.R. Jr. (1999b), "Model-Based Sampling, Inference and Imputation," EIA web site: http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf; Knaub, J.R., Jr. (2005), "Classical Ratio Estimator," InterStat, October 2005, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2007a), "Cutoff Sampling and Inference," InterStat, April 2007, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2008), "Cutoff Sampling." Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), "Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals," InterStat, June 2000, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2001), "Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias," InterStat, June 2001, http://interstat.statjournals.net/.

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

[3] Biogenic components include newsprint, paper, containers and packaging, leather, textiles, yard trimmings, food wastes, and wood. Non-biogenic components include plastics, rubber and other miscellaneous non-biogenic waste.

Table C.1 Average Heat Content of Fossil-Fuel Receipts, July 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	5.79	--	1.03
Connecticut	--	5.78	--	1.03
Maine	19.91	5.83	--	1.04
Massachusetts	--	--	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	16.04	6.23	--	1.03
New Jersey	--	--	--	1.03
New York	--	6.24	--	1.03
Pennsylvania	16.04	6.00	--	1.03
East North Central	20.61	5.85	27.42	1.05
Illinois	17.57	5.78	--	1.04
Indiana	22.46	5.76	--	1.04
Michigan	18.61	5.97	27.41	1.05
Ohio	25.15	5.82	--	1.06
Wisconsin	18.40	5.84	27.90	1.04
West North Central	16.58	5.78	--	1.06
Iowa	17.67	5.73	--	1.09
Kansas	17.39	5.79	--	1.01
Minnesota	17.76	--	--	1.09
Missouri	17.69	5.77	--	1.02
Nebraska	17.10	5.75	--	1.07
North Dakota	13.13	5.84	--	1.02
South Dakota	16.51	--	--	1.10
South Atlantic	23.57	5.84	28.44	1.03
Delaware	26.08	5.83	--	1.03
District of Columbia	--	--	--	--
Florida	23.54	5.82	28.44	1.02
Georgia	20.17	5.91	--	1.03
Maryland	24.28	5.80	--	1.03
North Carolina	24.60	5.80	--	1.03
South Carolina	24.80	5.80	--	1.03
Virginia	18.69	5.95	--	1.04
West Virginia	24.91	5.84	--	1.07
East South Central	20.11	5.79	--	1.03
Alabama	18.09	--	--	1.03
Kentucky	22.10	5.80	--	1.03
Mississippi	10.77	5.82	--	1.03
Tennessee	22.55	5.76	--	1.01
West South Central	16.43	5.85	--	1.02
Arkansas	17.73	5.86	--	1.03
Louisiana	17.30	5.90	--	1.03
Oklahoma	17.18	--	--	1.03
Texas	16.04	5.81	--	1.02
Mountain	18.12	5.81	--	1.04
Arizona	18.03	5.80	--	1.03
Colorado	18.62	--	--	1.08
Idaho	--	--	--	1.00
Montana	17.24	5.92	--	1.04
Nevada	18.76	5.83	--	1.04
New Mexico	18.42	--	--	1.03
Utah	20.65	5.80	--	1.04
Wyoming	17.35	5.78	--	1.05
Pacific Contiguous	18.18	6.00	--	1.04
California	21.81	--	--	1.03
Oregon	--	--	--	1.05
Washington	16.79	6.00	--	1.09
Pacific Noncontiguous	14.59	6.22	--	1.00
Alaska	14.59	5.60	--	1.00
Hawaii	--	6.22	--	--
U.S. Total	18.72	6.16	27.98	1.03

'Coal' includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
'Petroleum Liquids' include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
'Petroleum Coke' includes petroleum coke and synthesis gas derived from petroleum coke.
'Natural Gas' includes a small amount of supplemental gaseous fuels.
Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2019 through 2021

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2019**	**2020**	**2021**
Net Generation			
Coal	0.12%	0.12%	0.17%
Petroleum Liquids	1.89%	2.67%	5.42%
Petroleum Coke	5.53%	3.61%	2.93%
Natural Gas	1.30%	1.23%	0.28%
Other Gases	7.56%	6.01%	2.35%
Hydroelectric	6.37%	3.35%	3.89%
Nuclear	0.00%	0.01%	0.22%
Other	1.33%	1.12%	0.89%
Total	**0.48%**	**0.46%**	**0.33%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.16%	0.23%	0.17%
Petroleum Liquids	2.23%	2.39%	8.15%
Petroleum Coke	5.48%	8.51%	5.23%
Natural Gas	1.18%	1.19%	0.71%
Fuel Stocks for Electric Power Sector			
Coal	0.36%	0.56%	2.40%
Petroleum Liquids	0.32%	1.88%	5.16%
Petroleum Coke	1.78%	2.13%	0.48%
Sales of Electricity to Ultimate Customers			
Residential	0.36%	0.19%	0.40%
Commercial	0.46%	0.92%	0.29%
Industrial	5.27%	4.30%	1.39%
Transportation	0.81%	1.17%	0.92%
Total	**1.65%**	**1.49%**	**0.31%**
Revenue			
Residential	0.18%	0.13%	0.88%
Commercial	0.57%	0.38%	0.23%
Industrial	5.02%	4.43%	0.36%
Transportation	1.45%	0.90%	1.00%
Total	**1.12%**	**0.77%**	**0.46%**
Average Price of Electricity to Ultimate Customers			
Residential	0.18%	0.30%	0.47%
Commercial	0.13%	0.55%	0.50%
Industrial	0.30%	0.19%	1.17%
Transportation	0.64%	0.47%	0.61%
Total	**0.52%**	**0.70%**	**0.77%**
Receipt of Fossil Fuels			
Coal	0.93%	1.01%	1.20%
Petroleum Liquids	2.66%	5.52%	15.02%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	8.35%	8.15%	8.13%
Cost of Fossil Fuels			
Coal	0.13%	0.26%	0.21%
Petroleum Liquids	0.29%	1.32%	1.81%
Petroleum Coke	0.00%	0.00%	0.00%
Natural Gas	0.19%	0.38%	3.38%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-month values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: Mean absolute value of percent change is the unweighted average of the absolute percent cahnges.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2019 through 2021

Item	2019			2020			2021		
	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change
Net Generation (Thousand MWh)									
Coal	966,148	964,957	-0.12%	773,805	773,393	-0.05%	898,679	897,999	-0.08%
Petroleum Liquids	11,576	11,522	-0.47%	9,877	9,662	-2.18%	11,315	11,663	3.07%
Petroleum Coke	6,991	6,819	-2.46%	7,618	7,679	0.80%	7,467	7,511	0.58%
Natural Gas	1,581,815	1,588,533	0.42%	1,616,748	1,626,790	0.62%	1,575,230	1,579,190	0.25%
Other Gases	13,634	12,591	-7.65%	11,182	11,818	5.69%	11,283	11,397	1.01%
Hydroelectric	268,447	282,613	5.28%	285,790	279,953	-2.04%	255,113	246,473	-3.39%
Nuclear	809,409	809,409	0.00%	789,919	789,879	-0.01%	778,152	779,645	0.19%
Other	460,030	454,130	-1.28%	514,146	510,593	-0.69%	578,302	575,822	-0.43%
Total	**4,118,051**	**4,130,574**	**0.30%**	**4,009,085**	**4,009,767**	**0.02%**	**4,115,540**	**4,109,699**	**-0.14%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	538,465	537,620	-0.16%	436,076	435,351	-0.17%	500,592	500,367	-0.04%
Petroleum Liquids (1,000 barrels)	20,430	20,836	1.99%	18,191	18,008	-1.00%	20,676	21,633	4.63%
Petroleum Coke (1,000 tons)	2,806	2,724	-2.94%	2,866	3,077	7.35%	2,940	3,070	4.41%
Natural Gas (1,000 Mcf)	11,550,825	11,612,858	0.54%	11,887,895	11,928,104	0.34%	11,550,818	11,502,569	-0.42%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	128,497	128,102	-0.31%	132,723	131,431	-0.97%	94,654	91,884	-2.93%
Petroleum Liquids (1,000 barrels)	25,976	25,960	-0.06%	25,547	26,063	2.02%	23,446	26,002	10.90%
Petroleum Coke (1,000 tons)	443	471	6.35%	298	298	-0.10%	302	302	0.00%
Retail Sales (Million kWh)									
Residential	1,435,147	1,440,289	0.36%	1,461,958	1,464,605	0.18%	1,476,569	1,470,487	-0.41%
Commercial	1,354,545	1,360,877	0.47%	1,275,718	1,287,440	0.92%	1,324,782	1,328,439	0.28%
Industrial	952,149	1,002,353	5.27%	919,533	959,082	4.30%	986,797	1,000,613	1.40%
Transportation	7,697	7,632	-0.84%	6,532	6,548	0.24%	6,392	6,334	-0.90%
Total	**3,749,538**	**3,811,150**	**1.64%**	**3,663,741**	**3,717,674**	**1.47%**	**3,794,539**	**3,805,874**	**0.30%**
Revenue (Million Dollars)									
Residential	187,102	187,436	0.18%	192,934	192,663	-0.14%	202,632	200,834	-0.89%
Commercial	144,452	145,280	0.57%	135,860	136,372	0.38%	149,328	149,008	-0.21%
Industrial	65,033	68,285	5.00%	61,246	63,956	4.42%	71,682	71,835	0.21%
Transportation	749	737	-1.54%	646	648	0.30%	653	646	-0.98%
Total	**397,337**	**401,738**	**1.11%**	**390,686**	**393,639**	**0.76%**	**424,295**	**422,323**	**-0.46%**
Average Retail Price (Cents/kWh)									
Residential	13.04	13.01	-0.18%	13.20	13.15	-0.32%	13.72	13.66	-0.48%
Commercial	10.66	10.68	0.10%	10.65	10.59	-0.54%	11.27	11.22	-0.49%
Industrial	6.83	6.81	-0.26%	6.66	6.67	0.12%	7.26	7.18	-1.17%
Transportation	9.73	9.66	-0.70%	9.90	9.90	0.06%	10.21	10.20	-0.09%
Total	**10.60**	**10.54**	**-0.53%**	**10.66**	**10.59**	**-0.71%**	**11.18**	**11.10**	**-0.76%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	555,022	560,153	0.92%	435,213	439,636	1.02%	456,033	461,477	1.19%
Petroleum Liquids (1,000 barrels)	14,319	14,711	2.74%	12,178	12,864	5.63%	14,198	16,302	14.82%
Petroleum Coke (1,000 tons)	1,969	1,969	0.00%	2,396	2,396	0.00%	2,296	2,296	0.00%
Natural Gas (1,000 Mcf)	10,786,472	11,704,743	8.51%	11,067,675	11,981,552	8.26%	10,688,997	11,578,254	8.32%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.02	2.02	-0.21%	1.92	1.92	-0.24%	1.98	1.98	-0.26%
Petroleum Liquids (1,000 barrels)	13.58	13.62	0.29%	9.63	9.76	1.29%	14.50	14.71	1.42%
Petroleum Coke (1,000 tons)	1.91	1.91	0.00%	1.70	1.70	0.00%	3.16	3.16	0.00%
Natural Gas (1,000 Mcf)	2.89	2.88	-0.21%	2.39	2.40	0.21%	4.97	5.19	4.49%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-year values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.
Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2021 are Final.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report';
Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report';
and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.4. Unit of Measure Equivalents for Electricity

Unit	Equivalent
Kilowatt (kW)	1,000 (One Thousand) Watts
Megawatt (MW)	1,000,000 (One Million) Watts
Gigawatt (GW)	1,000,000,000 (One Billion) Watts
Terawatt (TW)	1,000,000,000,000 (One Trillion) Watts
Gigawatt	1,000,000 (One Million) Kilowatts
Thousand Gigawatts	1,000,000,000 (One Billion) Kilowatts
Kilowatthours (kWh)	1,000 (One Thousand) Watthours
Megawatthours (MWh)	1,000,000 (One Million) Watthours
Gigawatthours (GWh)	1,000,000,000 (One Billion) Watthours
Terawatthours (TWh)	1,000,000,000,000 (One Trillion) Watthours
Gigawatthours	1,000,000 (One Million) Kilowatthours
Thousand Gigawatthours	1,000,000,000(One Billion Kilowatthours

Source: U.S. Energy Information Administration

Glossary

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980's, anthracite refuse or mine waste has been used for steam electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Ash: Impurities consisting of silica, iron, aluminum, and other noncombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect its burning characteristics. Ash content is measured as a percent by weight of coal on a "received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Ash content: The amount of ash contained in the fuel (except gas) in terms of percent by weight.

Average Price of Electricity to Ultimate Consumers (formerly known as Average Revenue per Kilowatthour): The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and geographic area (State, Census division, and national), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

Barrel: A unit of volume equal to 42 U.S. gallons.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy resource.

Bituminous coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

British thermal unit: The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Btu: The abbreviation for British thermal unit(s).

Capacity: See Generator Capacity and Generator Name Plate Capacity (Installed).

Census Divisions: Any of nine geographic areas of the United States as defined by the U.S. Department of Commerce, Bureau of the Census. The divisions, each consisting of several States, are defined as follows:

1) *New England:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont;
2) *Middle Atlantic:* New Jersey, New York, and Pennsylvania;
3) *East North Central:* Illinois, Indiana, Michigan, Ohio, and Wisconsin;
4) *West North Central:* Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota;
5) *South Atlantic:* Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia;
6) *East South Central:* Alabama, Kentucky, Mississippi, and Tennessee;
7) *West South Central:* Arkansas, Louisiana, Oklahoma, and Texas;
8) *Mountain:* Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming;
9) *Pacific:* Alaska, California, Hawaii, Oregon, and Washington.

Note: Each division is a sub-area within a broader Census Region. In some cases, the Pacific division is subdivided into the Pacific Contiguous area (California, Oregon, and Washington) and the Pacific Noncontiguous area (Alaska and Hawaii).

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Coal synfuel: Coal-based solid fuel that has been processed by a coal synfuel plant; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coke (petroleum): A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Combined cycle: An electric generating technology in which electricity is produced from otherwise lost waste heat exiting from one or more gas (combustion) turbine-generators. The exiting heat from the combustion turbine(s) is routed to a conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of additional electricity.

Combined heat and power (CHP): Includes plants designed to produce both heat and electricity from a single heat source. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Consumption (fuel): The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

Cost: The amount paid to acquire resources, such as plant and equipment, fuel, or labor services.

Demand (electric): The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

Diesel: A distillate fuel oil that is used in diesel engines such as those used for transportation and for electric power generation.

Distillate fuel oil: *A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.*

1) *No. 1 Distillate:* A light petroleum distillate that can be used as either a diesel fuel (see No. 1 Diesel Fuel) or a fuel oil. See No. 1 Fuel Oil.

- *No. 1 Diesel fuel:* A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines, such as those in city buses and similar vehicles. See No. 1 Distillate above.
- *No. 1 Fuel oil:* A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See No. 1 Distillate above.

2) *No. 2 Distillate:* A petroleum distillate that can be used as either a diesel fuel (see No. 2 Diesel Fuel definition below) or a fuel oil. See No. 2 Fuel oil below.

- *No. 2 Diesel fuel:* A fuel that has distillation temperatures of 500 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See No. 2 Distillate above.

3) *No. 4 Fuel:* A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

- *No. 4 Diesel fuel and No. 4 Fuel oil:* See No. 4 Fuel above.

Electric industry restructuring: The process of replacing a monopolistic system of electric utility suppliers with competing sellers, allowing individual ultimate customers to choose their supplier but still receive delivery over the power lines of the local utility. It includes the reconfiguration of vertically integrated electric utilities.

Electric plant (physical): A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric power sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-- i. e., North American Industry Classification System 22 plants.

Electric utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity generation: The process of producing electric energy or the amount of electric energy produced by transforming other forms of energy, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Electricity generators: The facilities that produce only electricity, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy conservation features: This includes building shell conservation features, HVAC conservation features, lighting conservation features, any conservation features, and other conservation features incorporated by the building. However, this category does not include any demand-side management (DSM) program participation by the building. Any DSM program participation is included in the DSM Programs.

Energy efficiency: Refers to programs that are aimed at reducing the energy used by specific end-use devices and systems, typically without affecting the services provided. These programs reduce overall electricity consumption (reported in megawatthours), often without explicit consideration for the timing of program-induced savings. Such savings are generally achieved by substituting technically more advanced equipment to produce the same level of end-use services (e.g. lighting, heating, motor drive) with less electricity. Examples include high-efficiency appliances, efficient lighting programs, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modifications, efficient building design, advanced electric motor drives, and heat recovery systems.

Energy service provider: An energy entity that provides service to an ultimate consumer.

Energy source: Any substance or natural phenomenon that can be consumed or transformed to supply heat or power. Examples include petroleum, coal, natural gas, nuclear, biomass, electricity, wind, sunlight, geothermal, water movement, and hydrogen in fuel cells.

Energy-only service: Sales services for ultimate consumers for which the company provided only the energy consumed, where another entity provides delivery services.

Fossil fuel: An energy source formed in the earths crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Franchised service area: A specified geographical area in which a utility has been granted the exclusive right to serve customers. A franchise allows an entity to use city streets, alleys and other public lands in order to provide, distribute, and sell services to the community.

Fuel: Any material substance that can be consumed to supply heat or power. Included are petroleum, coal, and natural gas (the fossil fuels), and other consumable materials, such as uranium, biomass, and hydrogen.

Gas: A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

Gas turbine plant: An electric generating facility in which the prime mover is a gas (combustion) turbine. A gas turbine typically consists of an air compressor and one or more combustion chambers where either liquid or gaseous fuel is burned. The resulting hot gases are passed through the turbine where they expand to drive both an electric generator and the compressor.

Generating unit: Any combination of physically connected generators, reactors, boilers, combustion turbines, or other prime movers operated together to produce electric power.

Generator: A machine that converts mechanical energy into electrical energy.

Generator capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

Generator nameplate capacity (installed): The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.

Geothermal: Pertaining to heat within the Earth.

Geothermal energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust. Water or steam extracted from geothermal reservoirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Gross generation: The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount or number of British thermal units (Btu) produced by the combustion of fuel, measured in Btu/unit of measure.

Hydroelectric power: The production of electricity from the kinetic energy of falling water.

Hydroelectric power generation: Electricity generated by an electric power plant whose turbines are driven by falling water. It includes electric utility and industrial generation of hydroelectricity, unless otherwise specified. Generation is reported on a net basis, i.e., on the amount of electric energy generated after the electric energy consumed by station auxiliaries and the losses in the transformers that are considered integral parts of the station are deducted.

Hydroelectric pumped storage: Hydroelectricity that is generated during peak loads by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen: A colorless, odorless, highly flammable gaseous element. It is the lightest of all gases and the most abundant element in the universe, occurring chiefly in combination with oxygen in water and also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Independent power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Interdepartmental service (electric): Interdepartmental service includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

Internal combustion plant: A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

Investor-owned utility (IOU): A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

Jet fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Light oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Manufactured gas: A gas obtained by destructive distillation of coal, or by thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

Municipal utility: A nonprofit utility, owned by a local municipality and operated as a department thereof, governed by a city council or an independently elected or appointed board; primarily involved in the distribution and/or sale of electric power to ultimate consumers.

Natural gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

1) *Wet natural gas:* A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane, and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Exchange Commission and the Financial Accounting Standards Board refer to this product as natural gas.

    - Associated-dissolved natural gas: Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved gas).
    - Nonassociated natural gas: Natural gas that is not in contact with significant quantities of crude oil in the reservoir.

2) *Dry natural gas:* Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Net generation: The amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Net summer capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of May 1 through October 31). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Net winter capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of peak winter demand (period of November 1 though April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

North American Electric Reliability Council (NERC): A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. The NERC Regions are:

1) Texas Regional Entity (TRE),
2) Florida Reliability Coordinating Council (FRCC),
3) Midwest Reliability Organization (MRO),
4) Northeast Power Coordinating Council (NPCC),
5) ReliabilityFirst Corporation (RFC),
6) Southeastern Electric Reliability Council (SERC),
7) Southwest Power Pool (SPP), and the
8) Western Energy Coordinating Council (WECC).

North American Industry Classification System (NAICS): A set of codes that describes the possible purposes of a facility.

Nuclear electric power: Electricity generated by an electric power plant whose turbines are driven by steam produced by the heat from the fission of nuclear fuel in a reactor.

Other customers: Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, sales for irrigation, and interdepartmental sales.

Other generation: Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste gasses, excluding natural gas; biomass; geothermal; wind; solar thermal; photovoltaic; synthetic fuel; purchased steam; and waste oil energy sources.

Percent change: The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum coke: See Coke (petroleum).

Photovoltaic energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Plant: A term commonly used either as a synonym for an industrial establishment or a generation facility or to refer to a particular process within an establishment.

Power: The rate at which energy is transferred. Electrical energy is usually measured in watts. Also used for a measurement of capacity.

Power production plant: All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

Production (electric): Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expressed in watthours (Wh).

Propane: A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D 1835.

Public street and highway lighting service: Includes electricity supplied and services rendered for the purpose of lighting streets, highways, parks and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

Railroad and railway electric service: Electricity supplied to railroads and interurban and street railways, for general railroad use, including the propulsion of cars or locomotives, where such electricity is supplied under separate and distinct rate schedules.

Receipts: Purchases of fuel.

Relative standard error: The standard deviation of a distribution divided by the arithmetic mean, sometimes multiplied by 100. It is used for the purpose of comparing the variabilities of frequency distributions but is sensitive to errors in the means.

Residential: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government

service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Retail: Sales covering electrical energy supplied for residential, commercial, and industrial end-use purposes. Other small classes, such as agriculture and street lighting, also are included in this category.

Revenues: The total amount of money received by a firm from sales of its products and/or services, gains from the sales or exchange of assets, interest and dividends earned on investments, and other increases in the owner's equity except those arising from capital adjustments.

Sales: The transfer of title to an energy commodity from a seller to a buyer for a price or the quantity transferred during a specified period.

Service classifications (sectors): Consumers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial and other.

Service to public authorities: Public authority service includes electricity supplied and services rendered to municipalities or divisions or agencies of State and Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

Solar energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

State power authority: A nonprofit utility owned and operated by a state government agency, primarily involved in the generation, marketing, and/or transmission of wholesale electric power.

Steam-electric power plant (conventional): A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Stocks of fuel: A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars, tanks, or barges at the plant site, or in separate storage sites.

Subbituminous coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Sulfur: A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is

currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Sulfur content: The amount of sulfur contained in the fuel (except gas) in terms of percent by weight.

Supplemental gaseous fuel supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic fuel: A gaseous, liquid, or solid fuel that does not occur naturally. Synfuels can be made from coal (coal gasification or coal liquefaction), petroleum products, oil shale, tar sands, or plant products. Among the synfuels are various fuel gases, including but not restricted to substitute natural gas, liquid fuels for engines (e.g., gasoline, diesel fuel, and alcohol fuels) and burner fuels (e.g., fuel heating oils).

Terrawatt: One trillion watts.

Terrawatthour: One trillion kilowatthours.

Ton: A unit of weight equal to 2,000 pounds.

Turbine: A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

Ultimate consumer: A consumer that purchases electricity for its own use and not for resale.

Useful thermal output: The thermal energy made available in a combined heat or power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

Waste coal: As a fuel for electric power generation, waste coal includes anthracite refuse or mine waste, waste from anthracite preparation plants, and coal recovered from previously mined sites.

Waste gases: As a fuel for electric power generation, waste gasses are those gasses that are produced from gasses recovered from a solid-waste or wastewater treatment facility, or the gaseous by-products of oil-refining processes.

Waste oil: As a fuel for electric power generation, waste oil includes recycled motor oil, and waste oil from transformers.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Wind energy: The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity.

Year-to -date: The cumulative sum of each month's value starting with January and ending with the current month of the data.