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Contacts

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

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

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

Email address: infoelectric@eia.gov

Subject specialists:

Subject	Specialist
U.S. electric net generation	Brady Tyra
U.S. electric consumption of fuels	Christopher Cassar
U.S. electric stocks of fuels	Christopher Cassar
U.S. electric fossil-fuel receipts	Joy Liu
U.S. electric fossil-fuel costs	Joy Liu
U.S. sales of electricity to ultimate consumers	Peter Wong
Sampling and estimation methodologies	Orhan Yildiz.

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

Preface

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

Background

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

Data sources

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

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Executive Summary

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Net Generation and Consumption of Fuels for November														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	61,291	75,549	-18.9%	43,902	55,455	16,952	19,591	19	23	417	480	0	0
Petroleum Liquids	Utility Scale Facilities	761	907	-16.0%	600	646	122	215	8	9	32	36	0	0
Petroleum Coke	Utility Scale Facilities	643	333	92.9%	438	251	151	41	0	0	54	41	0	0
Natural Gas	Utility Scale Facilities	107,821	117,904	-8.6%	52,350	56,502	47,219	52,175	616	667	7,636	8,561	0	0
Other Gas	Utility Scale Facilities	938	1,047	-10.4%	-1	19	306	307	0	0	632	721	0	0
Nuclear	Utility Scale Facilities	61,760	64,125	-3.7%	32,605	32,923	29,154	31,202	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	22,069	20,218	9.2%	20,259	18,467	1,714	1,672	NM	12	81	67	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	45,806	35,052	30.7%	6,782	4,572	36,405	27,955	272	271	2,346	2,254	0	0
... Wind	Utility Scale Facilities	33,848	25,042	35.2%	5,760	3,836	27,967	21,181	15	17	106	8	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	5,890	4,364	35.0%	693	464	5,146	3,859	42	36	8	5	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,105	3,137	-1.0%	155	142	767	815	8	6	2,175	2,174	0	0
... Other Biomass	Utility Scale Facilities	1,476	1,525	-3.2%	96	90	1,157	1,198	166	171	57	67	0	0
... Geothermal	Utility Scale Facilities	1,487	984	51.2%	78	40	1,368	901	41	42	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-369	-509	-27.4%	-281	-424	-88	-84	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,056	1,082	-2.4%	40	56	558	572	86	84	372	371	0	0
All Energy Sources	Utility Scale Facilities	301,776	315,708	-4.4%	156,695	168,466	132,495	133,645	1,016	1,066	11,570	12,531	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,770	2,228	24.4%	0	0	0	0	812	683	226	198	1,732	1,346
Estimated Total Solar Photovoltaic	All Facilities	8,496	6,450	31.7%	693	464	4,982	3,718	854	719	235	204	1,732	1,346
Estimated Total Solar	All Facilities	8,660	6,592	31.4%	693	464	5,146	3,859	854	719	235	204	1,732	1,346
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	34,351	41,907	-18.0%	24,661	30,453	9,541	11,274	6	6	144	173	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,390	1,626	-14.5%	1,127	1,228	211	339	20	23	32	37	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	211	129	63.3%	157	101	39	15	0	0	15	14	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	789,561	846,545	-6.7%	401,900	423,023	335,764	366,212	3,906	4,253	47,991	53,057	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	897	1,019	-12.0%	118	174	68	76	30	38	681	731	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	165	249	-33.6%	5	4	39	17	25	32	97	195	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	69	57	22.5%	2	2	9	9	0	0	58	46	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	98,806	100,030	-1.2%	2,996	3,527	26,313	26,036	6,434	6,628	63,062	63,839	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	35,248	42,925	-17.9%	24,779	30,627	9,608	11,350	36	44	825	904	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,555	1,875	-17.1%	1,132	1,231	249	356	45	55	129	232	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	280	186	50.9%	159	102	48	24	0	0	73	60	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	888,367	946,575	-6.1%	404,896	426,550	362,077	392,248	10,340	10,881	111,054	116,896	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	136,745	123,464	10.8%	109,093	99,470	27,098	22,894	65	95	489	1,005	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	27,021	27,309	-1.1%	15,613	16,480	9,793	9,240	387	404	1,228	1,186	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	537	688	-22.0%	452	407	21	57	8	2	56	222	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for November									
	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	November 2020	November 2019	Percentage Change	November 2020	November 2019	Percentage Change	November 2020	November 2019	Percentage Change
Residential	99,385	102,453	-3.0%	13,265	13,346	-0.6%	13.35	13.03	2.5%
Commercial	97,076	102,840	-5.6%	10,281	10,874	-5.5%	10.59	10.57	0.2%
Industrial	75,851	79,625	-4.7%	4,917	5,350	-8.1%	6.48	6.72	-3.6%
Transportation	525	614	-14.5%	52	58	-11.2%	9.89	9.52	3.9%
All Sectors	272,838	285,532	-4.4%	28,515	29,629	-3.8%	10.45	10.38	0.7%

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

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2020 and 2019

Net Generation and Consumption of Fuels for January through November														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	694,777	892,376	-22.1%	525,048	669,324	164,605	217,343	209	241	4,915	5,468	0	0
Petroleum Liquids	Utility Scale Facilities	9,009	10,623	-15.2%	6,943	7,672	1,655	2,456	86	106	325	389	0	0
Petroleum Coke	Utility Scale Facilities	6,970	6,356	9.7%	5,172	4,797	1,269	1,023	2	4	527	531	0	0
Natural Gas	Utility Scale Facilities	1,489,761	1,453,887	2.5%	741,005	722,220	653,781	632,633	7,431	7,875	87,544	91,159	0	0
Other Gas	Utility Scale Facilities	10,194	11,484	-11.2%	46	151	2,715	3,531	0	0	7,433	7,801	0	0
Nuclear	Utility Scale Facilities	720,048	736,336	-2.2%	390,958	390,810	329,090	345,526	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	268,478	266,396	0.8%	245,750	243,034	21,591	22,244	191	175	946	943	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	456,925	403,703	13.2%	61,227	49,624	367,777	325,939	3,155	3,154	24,766	24,986	0	0
... Wind	Utility Scale Facilities	305,409	268,411	13.8%	47,911	38,860	256,814	229,300	167	162	516	89	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	84,875	68,484	23.9%	9,407	6,390	74,716	61,452	639	561	112	82	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	34,008	35,188	-3.4%	1,985	2,538	8,444	8,422	81	84	23,497	24,144	0	0
... Other Biomass	Utility Scale Facilities	17,196	17,330	-0.8%	1,126	1,113	13,567	13,598	1,863	1,948	641	671	0	0
... Geothermal	Utility Scale Facilities	15,437	14,290	8.0%	797	723	14,235	13,167	405	399	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-4,954	-4,731	4.7%	-4,039	-3,795	-915	-936	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	11,603	12,201	-4.9%	411	494	6,401	6,540	951	983	3,840	4,185	0	0
All Energy Sources	Utility Scale Facilities	3,662,811	3,788,629	-3.3%	1,972,520	2,084,331	1,547,969	1,556,300	12,025	12,538	130,297	135,461	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	39,379	32,911	19.7%	0	0	0	0	12,215	10,344	3,301	2,862	23,864	19,704
Estimated Total Solar Photovoltaic	All Facilities	121,060	98,247	23.2%	9,378	6,362	71,551	58,331	12,854	10,905	3,414	2,944	23,864	19,704
Estimated Total Solar	All Facilities	124,255	101,394	22.5%	9,407	6,390	74,716	61,452	12,854	10,905	3,414	2,944	23,864	19,704
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	392,112	497,155	-21.1%	293,555	369,772	96,823	125,333	62	69	1,673	1,981	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	16,498	19,020	-13.3%	13,092	14,289	2,859	4,095	213	229	334	407	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,634	2,527	4.2%	2,079	1,930	408	432	1	1	147	163	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	10,988,917	10,661,274	3.1%	5,678,402	5,504,084	4,716,990	4,543,505	47,013	50,860	546,512	562,824	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	9,776	11,325	-13.7%	1,471	1,879	653	1,085	348	401	7,304	7,961	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,400	2,005	-30.2%	44	66	176	209	240	393	940	1,337	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	684	767	-10.8%	18	14	91	83	3	5	572	664	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,115,142	1,089,879	2.3%	41,593	38,699	306,319	289,329	70,920	72,248	696,310	689,603	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	401,889	508,480	-21.0%	295,026	371,651	97,476	126,418	410	470	8,977	9,942	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	17,898	21,026	-14.9%	13,136	14,355	3,035	4,305	453	622	1,274	1,744	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,318	3,294	0.7%	2,097	1,945	499	516	4	7	718	827	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	12,104,058	11,751,153	3.0%	5,719,995	5,542,783	5,023,309	4,832,834	117,933	123,108	1,242,822	1,252,427	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through November									
	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	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	Percentage Change
Residential	1,332,689	1,319,211	1.0%	176,311	172,082	2.5%	13.23	13.04	1.5%
Commercial	1,171,518	1,252,875	-6.5%	124,894	134,133	-6.9%	10.66	10.71	-0.5%
Industrial	845,737	922,258	-8.3%	56,557	63,173	-10.5%	6.69	6.85	-2.3%
Transportation	5,946	6,984	-14.9%	587	676	-13.2%	9.87	9.68	2.0%
All Sectors	3,355,890	3,501,328	-4.2%	358,349	370,064	-3.2%	10.68	10.57	1.0%

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

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2020 and 2019

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal (1000 tons)	36,897	44,843	36.66	37.27	209	249	395,701	515,286	36.43	38.90
Petroleum Liquids (1000 barrels)	769	1,316	58.05	79.10	106	166	10,745	13,383	57.83	82.16
Petroleum Coke (1000 tons)	167	232	63.61	41.78	5	5	2,181	1,786	46.76	56.86
Natural Gas (1000 Mcf)	757,557	856,721	3.09	3.06	568	780	10,202,688	10,743,701	2.41	2.98

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal (1000 tons)	27,241	32,728	37.75	38.36	151	172	295,364	380,730	37.51	40.22
Petroleum Liquids (1000 barrels)	633	1,013	56.05	78.61	74	104	7,945	10,120	58.61	81.18
Petroleum Coke (1000 tons)	167	232	63.61	41.78	5	5	2,101	1,713	46.76	57.28
Natural Gas (1000 Mcf)	366,327	413,977	3.50	3.24	295	423	5,020,156	5,377,336	2.65	3.12

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal (1000 tons)	9,135	11,469	32.49	33.22	45	61	94,596	128,071	32.17	34.26
Petroleum Liquids (1000 barrels)	123	281	68.07	80.52	24	53	2,550	3,011	54.75	85.58
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	327,799	374,471	2.54	2.88	229	310	4,480,524	4,638,140	2.09	2.80

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal (1000 tons)	1	1	68.21	67.99	1	1	5	8	67.67	66.46
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	671	713	3.22	3.43	3	3	7,511	8,285	3.20	3.39

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal (1000 tons)	519	645	52.40	53.19	12	15	5,737	6,476	50.95	52.46
Petroleum Liquids (1000 barrels)	14	22	61.29	83.44	8	9	250	252	64.29	80.76
Petroleum Coke (1000 tons)	0	0	--	--	0	0	80	73	46.84	46.99
Natural Gas (1000 Mcf)	62,760	67,560	3.11	2.86	41	44	694,497	719,939	2.28	2.93

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

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2020 and 2019

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal	706,725	851,748	1.91	1.96	209	249	7,509,106	9,889,955	1.92	2.03
Petroleum Liquids	4,666	7,994	9.57	13.02	106	166	64,573	80,708	9.62	13.62
Petroleum Coke	4,711	6,654	2.25	1.46	5	5	61,671	51,058	1.65	1.99
Natural Gas	782,088	886,624	2.99	2.96	568	780	10,534,716	11,110,085	2.33	2.88
Fossil Fuels	1,498,191	1,753,020	2.48	2.50	701	941	18,170,066	21,131,806	2.18	2.51

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal	524,254	624,023	1.96	2.01	151	172	5,648,841	7,336,197	1.96	2.09
Petroleum Liquids	3,837	6,206	9.25	12.83	74	104	48,050	61,399	9.69	13.38
Petroleum Coke	4,711	6,654	2.25	1.46	5	5	59,514	49,030	1.65	2.00
Natural Gas	377,887	427,761	3.39	3.13	295	423	5,179,924	5,557,854	2.57	3.02
Fossil Fuels	910,689	1,064,643	2.58	2.52	386	530	10,936,329	13,004,481	2.28	2.54

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal	171,606	214,440	1.73	1.77	45	61	1,742,095	2,419,915	1.74	1.81
Petroleum Liquids	746	1,652	11.19	13.67	24	53	14,989	17,765	9.31	14.51
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	338,939	388,489	2.45	2.77	229	310	4,632,556	4,801,786	2.02	2.70
Fossil Fuels	511,291	604,580	2.19	2.41	268	361	6,389,640	7,239,467	1.95	2.40

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal	24	31	2.98	2.96	1	1	108	173	2.96	2.92
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	698	743	3.09	3.30	3	3	7,827	8,597	3.07	3.26
Fossil Fuels	722	773	3.09	3.28	3	3	7,935	8,769	3.07	3.26

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
Coal	10,840	13,255	2.51	2.59	12	15	118,062	133,670	2.48	2.54
Petroleum Liquids	83	137	10.02	13.67	8	9	1,534	1,543	10.48	13.18
Petroleum Coke	0	0	--	--	0	0	2,157	2,028	1.73	1.69
Natural Gas	64,564	69,632	3.02	2.77	41	44	714,409	741,848	2.21	2.84
Fossil Fuels	75,488	83,023	2.95	2.76	44	47	836,162	879,089	2.26	2.81

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... The total number of fossil fuel plants is not the sum of the figures above it because a plant that receives two or more different fuels is only counted once.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Chapter 1

Net Generation

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2010-November 2020
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,239,149	13,008	11,197	1,378,307	12,807	805,694	267,812	36,054	305,579	-6,686	13,754	4,076,675	18,812	51,483	54,866
2017	1,205,835	12,414	8,976	1,296,442	12,469	804,950	300,333	53,287	332,963	-6,495	13,096	4,034,271	23,990	74,008	77,277
2018	1,149,487	16,245	8,981	1,469,133	13,463	807,084	292,524	63,825	350,467	-5,905	12,973	4,178,277	29,539	89,773	93,365
2019	964,957	11,619	6,819	1,585,717	12,591	809,409	287,874	71,937	367,886	-5,261	13,334	4,126,882	34,957	103,676	106,894
Year 2018															
January	119,284	5,555	965	110,293	1,097	74,649	25,064	3,319	32,443	-547	1,109	373,230	1,619	4,810	4,938
February	82,050	804	754	98,512	1,092	64,790	24,902	3,896	29,415	-315	994	306,894	1,766	5,472	5,663
March	80,626	830	642	106,524	1,158	67,033	25,861	5,056	33,200	-490	1,108	321,547	2,434	7,233	7,490
April	73,346	872	666	98,371	1,099	59,133	28,115	6,057	32,446	-377	1,028	300,756	2,740	8,482	8,796
May	85,227	1,040	517	115,284	1,167	67,320	30,444	6,849	30,419	-390	1,070	338,948	3,011	9,430	9,860
June	101,503	1,066	834	130,826	1,091	69,688	27,597	7,415	31,193	-433	1,104	371,886	3,059	9,957	10,474
July	115,376	988	913	164,749	1,172	72,456	25,100	6,755	23,316	-644	1,111	411,290	3,146	9,521	9,901
August	115,129	1,047	879	161,676	1,301	72,282	22,017	6,695	26,601	-747	1,146	408,028	3,017	9,303	9,712
Sept	96,544	1,055	799	141,786	1,104	64,725	19,166	5,961	24,718	-603	1,004	356,258	2,674	8,205	8,635
October	87,264	1,015	562	123,142	1,016	59,397	19,548	4,970	27,426	-492	1,084	324,932	2,392	7,087	7,361
November	92,819	1,006	656	108,168	1,045	63,954	21,913	3,743	28,334	-343	1,075	322,369	1,905	5,480	5,648
December	100,319	966	795	109,802	1,120	71,657	22,797	3,110	30,956	-522	1,139	342,139	1,775	4,792	4,885
Year 2019															
January	100,905	1,420	800	121,582	1,025	73,701	24,798	3,580	30,776	-323	1,194	359,457	1,903	5,373	5,483
February	79,929	822	692	112,135	948	64,715	22,881	3,836	28,379	-389	1,003	314,951	2,059	5,763	5,895
March	78,352	827	574	115,806	1,086	65,080	26,334	5,899	31,941	-409	1,080	326,568	2,914	8,553	8,813
April	59,922	788	401	104,053	948	60,581	27,820	6,752	34,425	-103	1,015	296,602	3,245	9,672	9,997
May	71,885	947	737	117,053	1,054	67,124	31,982	7,162	31,651	-368	1,117	330,343	3,549	10,375	10,711
June	78,540	966	563	137,828	1,009	68,805	28,078	7,971	28,453	-385	1,101	352,928	3,604	11,136	11,575
July	100,771	1,009	791	171,942	1,185	72,199	24,875	8,133	28,534	-622	1,157	409,973	3,760	11,493	11,893
August	94,040	1,054	684	174,955	1,147	71,911	22,579	7,877	26,518	-579	1,211	401,397	3,611	11,075	11,488
Sept	85,707	931	581	149,688	1,112	66,064	18,526	6,817	30,556	-671	1,142	360,452	3,205	9,728	10,022
October	66,777	951	200	130,941	924	62,033	18,306	6,093	33,298	-373	1,100	320,250	2,833	8,628	8,926
November	75,549	907	333	117,904	1,047	64,125	20,218	4,364	30,688	-509	1,082	315,708	2,228	6,450	6,592
December	72,581	996	463	131,830	1,107	73,074	21,478	3,453	32,667	-529	1,133	338,253	2,047	5,430	5,500
Year 2020															
January	65,100	964	662	133,154	1,104	74,170	25,425	4,690	34,431	-377	1,085	340,408	2,314	6,888	7,004
February	56,101	766	500	125,554	1,132	65,950	26,393	5,717	35,025	-247	961	317,853	2,627	8,150	8,344
March	50,643	715	684	123,654	1,009	63,997	23,423	6,434	35,599	-353	1,083	306,887	3,435	9,659	9,869
April	40,593	636	591	107,929	747	59,170	21,957	8,048	35,350	-325	1,067	275,763	3,829	11,543	11,878
May	46,529	707	587	115,855	808	64,338	30,559	9,734	34,328	-367	1,088	304,167	4,277	13,565	14,011
June	65,274	865	808	143,180	756	67,205	29,138	9,529	35,694	-499	1,016	352,967	4,288	13,418	13,817
July	89,845	963	907	185,433	854	69,385	27,753	10,379	28,686	-686	1,089	414,610	4,442	14,376	14,821
August	91,165	926	809	174,130	1,002	68,982	24,228	9,370	28,889	-784	1,096	399,812	4,240	13,254	13,610
Sept	68,396	795	457	141,407	947	65,727	19,182	7,757	29,017	-525	1,007	334,167	3,756	11,244	11,514
October	59,840	911	322	131,644	897	59,362	18,350	7,326	35,116	-423	1,055	314,401	3,401	10,468	10,727
November	61,291	761	643	107,821	938	61,760	22,069	5,890	39,916	-369	1,056	301,776	2,770	8,496	8,660
Year to Date															
2018	1,049,169	15,279	8,186	1,359,331	12,342	735,427	269,727	60,716	319,511	-5,382	11,834	3,836,138	27,764	84,980	88,480
2019	892,376	10,623	6,356	1,453,887	11,484	736,336	266,396	68,484	335,219	-4,731	12,201	3,788,629	32,911	98,247	101,394
2020	694,777	9,009	6,970	1,489,761	10,194	720,048	268,478	84,875	372,049	-4,954	11,603	3,662,811	39,379	121,060	124,255
Rolling 12 Months Ending in November															
2019	992,695	11,589	7,151	1,563,688	12,604	807,993	289,193	71,593	366,175	-5,254	13,340	4,130,768	34,686	103,039	106,279
2020	767,358	10,006	7,433	1,621,591	11,301	793,121	289,956	88,328	404,716	-5,483	12,736	4,001,064	41,426	126,489	129,754

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2010-November 2020
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,993	32,670	3,384	40,947	11,218	7,265	3,331	15,826	267,812	609,445	18,812	51,483	54,866
2017	254,303	50,018	3,269	41,124	11,543	6,951	3,115	15,927	300,333	686,583	23,990	74,008	77,277
2018	272,667	60,234	3,592	40,936	11,036	7,136	2,724	15,967	292,524	706,816	29,539	89,773	93,365
2019	294,906	68,719	3,218	38,543	10,468	6,093	2,402	15,473	287,874	727,697	34,957	103,676	106,894
Year 2018													
January	25,599	3,191	128	3,686	964	588	265	1,341	25,064	60,826	1,619	4,810	4,938
February	23,189	3,705	191	3,235	906	559	251	1,274	24,902	58,213	1,766	5,472	5,663
March	26,464	4,799	258	3,547	972	597	253	1,367	25,861	64,117	2,434	7,233	7,490
April	26,431	5,743	314	3,102	920	566	239	1,188	28,115	66,618	2,740	8,482	8,796
May	23,953	6,419	430	3,352	930	573	228	1,383	30,444	67,712	3,011	9,430	9,860
June	24,703	6,898	517	3,471	889	629	202	1,300	27,597	66,206	3,059	9,957	10,474
July	16,447	6,374	380	3,749	909	638	202	1,370	25,100	55,170	3,146	9,521	9,901
August	19,846	6,286	409	3,630	919	630	208	1,367	22,017	55,313	3,017	9,303	9,712
Sept	18,520	5,531	430	3,281	836	562	192	1,328	19,166	49,844	2,674	8,205	8,635
October	21,194	4,695	275	3,216	918	594	231	1,273	19,548	51,944	2,392	7,087	7,361
November	22,016	3,575	168	3,264	920	584	220	1,331	21,913	53,990	1,905	5,480	5,648
December	24,306	3,018	92	3,404	951	616	233	1,446	22,797	56,863	1,775	4,792	4,885
Year 2019													
January	24,248	3,470	111	3,465	930	528	214	1,390	24,798	59,154	1,903	5,373	5,483
February	22,547	3,704	131	3,042	843	464	191	1,293	22,881	55,095	2,059	5,763	5,895
March	25,677	5,639	260	3,217	908	490	227	1,422	26,334	64,174	2,914	8,553	8,813
April	28,854	6,427	325	2,807	833	468	208	1,254	27,820	68,997	3,245	9,672	9,997
May	25,695	6,826	336	3,051	859	526	179	1,342	31,982	70,795	3,549	10,375	10,711
June	22,385	7,532	439	3,159	868	523	191	1,328	28,078	64,502	3,604	11,136	11,575
July	22,043	7,733	400	3,498	884	538	194	1,375	24,875	61,542	3,760	11,493	11,893
August	19,951	7,464	413	3,539	886	546	204	1,393	22,579	56,974	3,611	11,075	11,488
Sept	24,448	6,523	294	3,211	838	512	179	1,368	18,526	55,899	3,205	9,728	10,022
October	27,521	5,796	298	3,063	868	500	206	1,141	18,306	57,698	2,833	8,628	8,926
November	25,042	4,223	141	3,137	844	484	198	984	20,218	55,269	2,228	6,450	6,592
December	26,496	3,383	70	3,355	908	513	213	1,183	21,478	57,598	2,047	5,430	5,500
Year 2020													
January	28,149	4,575	116	3,345	935	521	216	1,265	25,425	64,546	2,314	6,888	7,004
February	29,092	5,523	194	3,145	855	464	196	1,274	26,393	67,135	2,627	8,150	8,344
March	29,204	6,223	211	3,196	940	535	207	1,517	23,423	65,456	3,435	9,659	9,869
April	29,336	7,714	335	2,970	901	504	189	1,450	21,957	65,355	3,829	11,543	11,878
May	28,163	9,288	446	3,099	913	518	186	1,449	30,559	74,622	4,277	13,565	14,011
June	29,872	9,130	400	2,993	816	475	168	1,369	29,138	74,361	4,288	13,418	13,817
July	22,579	9,934	445	3,112	863	528	174	1,431	27,753	66,818	4,442	14,376	14,821
August	22,571	9,013	356	3,302	878	537	174	1,426	24,228	62,486	4,240	13,254	13,610
Sept	23,176	7,488	270	2,938	847	492	173	1,390	19,182	55,956	3,756	11,244	11,514
October	29,419	7,067	259	2,802	834	485	196	1,379	18,350	60,792	3,401	10,468	10,727
November	33,848	5,726	164	3,105	799	487	190	1,487	22,069	67,875	2,770	8,496	8,660
Year to Date													
2018	248,361	57,216	3,500	37,532	10,085	6,520	2,491	14,521	269,727	649,953	27,764	84,980	88,480
2019	268,411	65,336	3,148	35,188	9,561	5,580	2,189	14,290	266,396	670,098	32,911	98,247	101,394
2020	305,409	81,681	3,195	34,008	9,580	5,546	2,070	15,437	268,478	725,403	39,379	121,060	124,255
Rolling 12 Months Ending in November													
2019	292,717	68,354	3,240	38,592	10,511	6,196	2,422	15,736	289,193	726,961	34,686	103,039	106,279
2020	331,904	85,063	3,265	37,363	10,488	6,058	2,283	16,620	289,956	783,001	41,426	126,489	129,754

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2010-November 2020
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	922,399	9,069	8,881	654,780	154	424,400	247,787	1,995	40,666	-5,629	421	2,304,923
2017	893,639	8,567	6,711	623,834	149	424,485	275,677	3,348	42,763	-5,448	553	2,274,279
2018	863,505	10,108	6,817	720,206	151	424,251	267,336	4,916	44,184	-4,785	561	2,337,250
2019	722,885	8,410	5,112	784,929	154	430,672	262,364	6,785	47,427	-4,261	551	2,265,028
Year 2018												
January	88,718	2,491	770	55,797	26	39,366	23,106	288	4,399	-475	41	214,525
February	61,138	617	575	48,715	17	33,941	22,864	314	3,853	-226	38	171,847
March	58,606	595	491	52,161	16	35,262	23,638	446	4,276	-408	48	175,132
April	55,281	632	477	48,151	28	30,580	25,598	480	4,120	-295	39	165,093
May	64,034	745	336	58,251	11	34,479	28,055	463	3,427	-309	45	189,538
June	77,899	756	670	66,774	13	36,437	25,778	503	3,691	-339	50	212,232
July	88,102	668	716	81,297	15	38,293	23,303	477	2,824	-522	55	235,229
August	87,359	711	686	78,025	24	38,885	20,050	476	3,122	-626	56	228,767
Sept	73,021	781	639	68,655	3	34,377	17,368	436	3,288	-500	47	198,116
October	64,902	751	378	59,071	0	31,364	17,571	418	3,447	-405	43	177,541
November	68,864	703	477	51,796	0	33,043	19,630	325	3,631	-254	50	178,265
December	75,578	657	601	51,512	0	38,223	20,373	290	4,105	-426	49	190,963
Year 2019												
January	74,950	892	634	59,214	12	39,806	22,391	379	3,918	-247	42	201,990
February	59,507	587	564	55,546	22	34,243	20,610	403	3,357	-310	30	174,559
March	56,482	627	464	57,136	31	34,213	23,839	598	4,253	-309	31	177,366
April	44,228	552	276	51,610	0	32,063	25,266	667	4,747	-26	35	159,417
May	55,130	696	552	59,597	0	35,416	29,266	689	3,975	-305	41	185,055
June	60,199	732	398	70,452	23	36,847	25,767	662	3,588	-299	39	198,408
July	77,085	719	551	84,998	18	39,023	22,846	673	3,572	-505	36	229,016
August	72,032	809	501	87,732	16	39,218	20,913	640	3,106	-470	66	224,562
Sept	64,955	702	460	74,902	10	34,770	17,045	641	4,113	-583	59	197,075
October	49,301	710	146	64,530	0	32,289	16,625	574	4,498	-316	58	168,416
November	55,455	646	251	56,502	19	32,923	18,467	464	4,108	-424	56	168,466
December	53,561	739	315	62,709	2	39,861	19,330	395	4,193	-465	57	180,697
Year 2020												
January	48,387	800	493	65,167	0	40,721	23,120	554	4,395	-325	41	183,354
February	41,641	616	366	62,392	8	36,079	24,127	632	4,995	-182	40	170,714
March	38,332	516	521	62,259	19	35,133	21,071	806	4,860	-252	40	163,305
April	29,872	471	455	54,789	6	32,827	19,661	918	4,895	-252	34	143,676
May	34,953	533	436	60,009	8	34,392	28,113	1,103	4,557	-273	41	163,872
June	49,744	658	647	72,147	1	36,388	27,053	1,022	4,826	-420	32	192,098
July	69,565	720	732	91,836	6	37,583	25,724	1,076	3,591	-595	40	230,279
August	71,210	709	626	86,115	0	37,544	22,279	974	3,979	-675	42	222,803
Sept	53,208	616	289	68,236	0	36,043	17,529	835	4,356	-438	30	180,704
October	44,234	704	169	65,703	0	31,641	16,814	794	5,277	-346	31	165,020
November	43,902	600	438	52,350	-1	32,605	20,259	693	6,089	-281	40	156,695
Year to Date												
2018	787,927	9,451	6,216	668,693	151	386,028	246,963	4,626	40,078	-4,359	513	2,146,287
2019	669,324	7,672	4,797	722,220	151	390,810	243,034	6,390	43,235	-3,795	494	2,084,331
2020	525,048	6,943	5,172	741,005	46	390,958	245,750	9,407	51,819	-4,039	411	1,972,520
Rolling 12 Months Ending in November												
2019	744,901	8,328	5,398	773,732	151	429,034	263,408	6,680	47,340	-4,222	543	2,275,293
2020	578,610	7,682	5,487	803,714	48	430,819	265,080	9,803	56,012	-4,504	468	2,153,217

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
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Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2010-November 2020
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,263	3,360	1,401	624,600	3,758	381,294	18,539	33,502	233,553	-1,057	6,941	1,613,156
2017	304,198	3,281	1,480	572,919	3,978	380,465	23,034	49,376	258,962	-1,047	6,527	1,603,174
2018	278,668	5,487	1,516	645,616	3,935	382,833	23,812	58,337	275,154	-1,119	6,677	1,680,917
2019	235,847	2,669	1,125	692,113	3,883	378,738	24,288	64,480	290,343	-1,000	7,141	1,699,628
Year 2018												
January	29,839	2,951	137	45,672	318	35,283	1,856	3,000	25,364	-72	575	144,924
February	20,261	133	126	41,986	320	30,849	1,929	3,549	23,179	-89	543	122,786
March	21,377	186	96	46,436	331	31,770	2,114	4,563	26,260	-82	564	133,615
April	17,506	199	137	42,464	326	28,553	2,392	5,522	25,872	-82	527	123,416
May	20,600	248	124	48,762	379	32,841	2,264	6,325	24,380	-81	526	136,366
June	22,994	268	100	55,398	303	33,251	1,724	6,845	24,920	-95	582	146,291
July	26,647	260	139	73,967	344	34,163	1,700	6,214	17,729	-123	586	161,625
August	27,157	292	139	74,126	369	33,398	1,858	6,158	20,775	-121	579	164,730
Sept	22,941	233	108	64,337	328	30,348	1,692	5,475	18,927	-103	515	144,800
October	21,834	218	126	55,462	255	28,033	1,855	4,508	21,450	-87	556	134,209
November	23,393	245	140	47,623	311	30,911	2,150	3,386	22,175	-88	551	130,797
December	24,120	254	144	49,384	350	33,434	2,277	2,792	24,124	-96	574	137,357
Year 2019												
January	25,344	462	125	52,923	348	33,895	2,266	3,167	24,202	-76	625	143,281
February	19,875	185	91	48,397	329	30,472	2,162	3,395	22,629	-79	544	128,000
March	21,337	155	71	49,981	352	30,867	2,368	5,243	25,079	-100	576	135,930
April	15,198	189	79	44,245	329	28,518	2,429	6,023	27,352	-78	546	124,830
May	16,258	215	145	48,842	325	31,708	2,591	6,406	25,313	-63	623	132,362
June	17,844	196	117	58,469	306	31,958	2,198	7,236	22,393	-86	610	141,241
July	23,140	254	135	77,238	354	33,176	1,942	7,380	22,330	-118	634	166,466
August	21,485	200	134	77,396	361	32,693	1,592	7,163	20,758	-109	638	162,310
Sept	20,261	186	77	65,571	332	31,294	1,416	6,112	24,002	-88	590	149,753
October	17,011	200	9	57,397	189	29,744	1,607	5,466	26,333	-56	582	138,481
November	19,591	215	41	52,175	307	31,202	1,672	3,859	24,096	-84	572	133,645
December	18,504	213	102	59,480	352	33,212	2,044	3,028	25,856	-64	601	143,328
Year 2020												
January	16,160	121	112	58,124	354	33,448	2,195	4,093	27,434	-52	609	142,600
February	13,935	112	93	54,253	361	29,871	2,155	5,035	27,591	-65	545	133,887
March	11,811	164	114	52,497	269	28,864	2,240	5,568	28,179	-101	622	130,227
April	10,287	133	104	45,256	144	26,343	2,186	7,057	28,013	-73	594	120,044
May	11,141	138	110	47,824	153	29,946	2,329	8,543	27,322	-94	585	127,996
June	15,116	168	110	62,490	132	30,817	1,976	8,423	28,464	-79	540	148,156
July	19,817	203	117	84,467	156	31,802	1,925	9,211	22,642	-91	606	170,854
August	19,517	184	124	78,867	303	31,438	1,852	8,316	22,440	-109	612	163,544
Sept	14,718	144	123	64,858	297	29,684	1,568	6,855	22,244	-87	565	140,970
October	15,152	166	109	57,927	239	27,721	1,452	6,469	27,471	-77	564	137,195
November	16,952	122	151	47,219	306	29,154	1,714	5,146	31,260	-88	558	132,495
Year to Date												
2018	254,548	5,233	1,372	596,232	3,585	349,399	21,534	55,545	251,030	-1,024	6,103	1,543,560
2019	217,343	2,456	1,023	632,633	3,531	345,526	22,244	61,452	264,488	-936	6,540	1,556,300
2020	164,605	1,655	1,269	653,781	2,715	329,090	21,591	74,716	293,061	-915	6,401	1,547,969
Rolling 12 Months Ending in November												
2019	241,463	2,711	1,167	682,017	3,881	378,959	24,522	64,244	288,612	-1,032	7,113	1,693,657
2020	183,109	1,868	1,371	713,261	3,066	362,302	23,635	77,744	318,916	-979	7,002	1,691,296

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2010-November 2020
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	383	77	6	7,730	0	0	217	529	2,697	0	1,068	12,706	6,158	6,687	6,687
2017	329	103	8	8,042	0	0	240	521	2,729	0	1,088	13,060	7,685	8,206	8,206
2018	303	132	7	8,419	0	0	227	525	2,688	0	1,010	13,312	9,798	10,324	10,324
2019	268	116	5	8,610	0	0	188	587	2,840	0	1,076	13,689	11,002	11,588	11,588
Year 2018															
January	40	41	1	671	0	0	19	29	229	0	84	1,114	552	581	581
February	32	7	1	626	0	0	19	31	206	0	72	995	605	636	636
March	27	7	1	647	0	0	21	43	227	0	83	1,058	820	863	863
April	24	8	0	585	0	0	24	50	217	0	81	989	907	957	957
May	21	7	0	656	0	0	24	57	221	0	90	1,076	992	1,048	1,048
June	20	7	0	737	0	0	21	62	224	0	92	1,163	1,003	1,065	1,065
July	21	11	0	875	0	0	19	59	223	0	90	1,298	1,036	1,094	1,094
August	23	9	0	892	0	0	17	56	230	0	90	1,318	993	1,049	1,049
Sept	24	7	1	771	0	0	16	46	213	0	80	1,156	893	938	938
October	20	7	1	668	0	0	14	39	223	0	83	1,055	786	826	826
November	25	12	1	622	0	0	16	29	212	0	77	993	623	652	652
December	24	9	1	669	0	0	17	25	262	0	88	1,095	589	614	614
Year 2019															
January	29	19	1	706	0	0	16	30	263	0	95	1,160	629	659	659
February	27	9	1	654	0	0	15	34	236	0	81	1,057	676	710	710
March	33	8	1	711	0	0	19	50	262	0	90	1,173	933	983	983
April	22	7	1	646	0	0	19	54	216	0	88	1,053	1,032	1,086	1,086
May	18	7	0	663	0	0	22	58	213	0	91	1,072	1,110	1,168	1,168
June	13	6	0	711	0	0	18	63	229	0	93	1,133	1,118	1,181	1,181
July	18	9	0	869	0	0	16	69	240	0	92	1,313	1,171	1,241	1,241
August	17	12	0	852	0	0	15	64	235	0	94	1,290	1,116	1,181	1,181
Sept	21	10	0	731	0	0	12	55	230	0	91	1,150	994	1,049	1,049
October	21	9	0	666	0	0	11	46	235	0	84	1,072	881	927	927
November	23	9	0	667	0	0	12	36	235	0	84	1,066	683	719	719
December	27	10	1	735	0	0	14	26	246	0	93	1,151	657	684	684
Year 2020															
January	22	10	2	748	0	0	NM	37	237	0	91	1,164	736	773	773
February	29	6	1	672	0	0	NM	44	230	0	80	1,080	835	878	878
March	22	6	0	648	0	0	NM	52	246	0	88	1,078	1,091	1,143	1,143
April	13	5	0	550	0	0	15	64	224	0	82	953	1,200	1,264	1,264
May	14	7	0	599	0	0	NM	75	232	0	89	1,039	1,313	1,388	1,388
June	17	7	0	672	0	0	NM	72	220	0	85	1,095	1,319	1,391	1,391
July	17	10	0	809	0	0	NM	78	229	0	92	1,255	1,378	1,456	1,456
August	15	10	0	790	0	0	NM	68	228	0	90	1,219	1,330	1,398	1,398
Sept	24	8	0	710	0	0	13	56	215	0	84	1,110	1,182	1,238	1,238
October	17	8	0	617	0	0	NM	52	225	0	84	1,017	1,019	1,071	1,071
November	19	8	0	616	0	0	NM	42	230	0	86	1,016	812	854	854
Year to Date															
2018	279	123	6	7,750	0	0	211	501	2,426	0	923	12,217	9,209	9,710	9,710
2019	241	106	4	7,875	0	0	175	561	2,593	0	983	12,538	10,344	10,905	10,905
2020	209	86	2	7,431	0	0	191	639	2,516	0	951	12,025	12,215	12,854	12,854
Rolling 12 Months Ending in November															
2019	265	115	5	8,544	0	0	191	585	2,855	0	1,070	13,633	10,933	11,518	11,518
2020	236	96	3	8,166	0	0	NM	666	2,762	0	1,043	13,177	12,872	13,538	13,538

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
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Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2010-November 2020
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,103	503	909	91,197	8,895	0	1,269	27	28,663	0	5,324	145,890	2,060	2,087	2,087
2017	7,669	463	776	91,647	8,343	0	1,382	42	28,508	0	4,928	143,758	2,364	2,406	2,406
2018	7,011	517	640	94,892	9,377	0	1,149	47	28,440	0	4,725	146,798	2,636	2,683	2,683
2019	5,957	424	576	100,065	8,554	0	1,033	85	27,276	0	4,567	148,537	3,041	3,127	3,127
Year 2018															
January	687	73	57	8,153	752	0	83	2	2,450	0	410	12,668	146	149	149
February	619	47	52	7,184	755	0	89	3	2,177	0	340	11,265	155	158	158
March	616	41	54	7,280	811	0	87	4	2,437	0	413	11,742	221	225	225
April	535	33	51	7,172	744	0	102	4	2,237	0	380	11,258	241	245	245
May	572	41	56	7,614	778	0	101	5	2,390	0	409	11,967	267	271	271
June	590	34	64	7,918	775	0	74	5	2,358	0	381	12,199	268	273	273
July	606	49	57	8,609	813	0	78	5	2,540	0	381	13,138	277	282	282
August	590	35	54	8,634	909	0	91	5	2,474	0	421	13,212	268	273	273
Sept	558	34	51	8,022	773	0	90	4	2,290	0	363	12,185	242	247	247
October	507	39	58	7,941	762	0	108	4	2,307	0	402	12,127	220	224	224
November	536	46	38	8,127	734	0	116	3	2,318	0	396	12,313	174	177	177
December	596	46	49	8,237	771	0	130	2	2,464	0	429	12,724	157	160	160
Year 2019															
January	581	48	40	8,739	664	0	124	4	2,393	0	432	13,025	168	172	172
February	521	40	36	7,538	597	0	94	5	2,156	0	348	11,335	178	182	182
March	500	37	37	7,978	702	0	108	7	2,348	0	384	12,099	254	261	261
April	475	40	45	7,552	619	0	106	8	2,110	0	346	11,301	278	286	286
May	479	30	41	7,951	730	0	104	9	2,150	0	361	11,854	309	317	317
June	484	31	47	8,196	680	0	95	10	2,244	0	360	12,147	311	320	320
July	528	28	105	8,837	813	0	71	10	2,391	0	394	13,178	321	331	331
August	506	33	50	8,976	770	0	59	9	2,419	0	413	13,236	311	320	320
Sept	470	34	44	8,483	770	0	52	8	2,211	0	402	12,474	281	289	289
October	445	32	44	8,348	735	0	63	7	2,233	0	375	12,281	255	262	262
November	480	36	41	8,561	721	0	67	5	2,249	0	371	12,531	198	204	204
December	489	35	45	8,906	753	0	91	4	2,372	0	382	13,077	179	183	183
Year 2020															
January	530	33	54	9,115	750	0	93	6	2,365	0	344	13,290	193	198	198
February	495	32	41	8,237	763	0	92	7	2,210	0	296	12,172	214	220	220
March	477	29	49	8,250	721	0	96	8	2,313	0	334	12,277	295	302	302
April	422	26	31	7,334	596	0	95	10	2,218	0	357	11,090	318	327	327
May	422	29	41	7,423	647	0	95	13	2,216	0	373	11,259	351	364	364
June	398	32	51	7,871	623	0	86	13	2,184	0	359	11,618	357	370	370
July	447	30	58	8,322	692	0	84	14	2,224	0	350	12,221	372	386	386
August	423	23	59	8,357	699	0	80	12	2,241	0	352	12,246	360	373	373
Sept	446	26	45	7,602	650	0	73	11	2,202	0	327	11,382	324	335	335
October	437	33	44	7,396	659	0	71	10	2,143	0	376	11,170	292	303	303
November	417	32	54	7,636	632	0	81	8	2,338	0	372	11,570	226	235	235
Year to Date															
2018	6,415	471	591	86,655	8,605	0	1,019	45	25,976	0	4,296	134,074	2,479	2,524	2,524
2019	5,468	389	531	91,159	7,801	0	943	82	24,904	0	4,185	135,461	2,862	2,944	2,944
2020	4,915	325	527	87,544	7,433	0	946	112	24,654	0	3,840	130,297	3,301	3,414	3,414
Rolling 12 Months Ending in November															
2019	6,064	435	580	99,395	8,572	0	1,072	84	27,368	0	4,613	148,185	3,019	3,103	3,103
2020	5,404	360	572	96,450	8,187	0	1,037	116	27,026	0	4,222	143,373	3,480	3,596	3,596

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-November 2020 (Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,942
2018	17,105
2019	20,914
Year 2018	
January	921
February	1,007
March	1,393
April	1,592
May	1,753
June	1,788
July	1,834
August	1,756
Sept	1,539
October	1,385
November	1,108
December	1,029
Year 2019	
January	1,107
February	1,205
March	1,727
April	1,935
May	2,130
June	2,175
July	2,268
August	2,184
Sept	1,930
October	1,697
November	1,346
December	1,210
Year 2020	
January	1,385
February	1,579
March	2,050
April	2,312
May	2,612
June	2,613
July	2,691
August	2,550
Sept	2,250
October	2,090
November	1,732
Year to Date	
2018	16,076
2019	19,704
2020	23,864
Rolling 12 Months Ending in November	
2019	20,733
2020	25,074

See Glossary for definitions. Values for 2019 and prior years are final. Values for 2020 are preliminary.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources:
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	7,349	7,710	-4.7%	164	168	6,867	7,215	102	101	216	227
Connecticut	3,109	3,433	-9.4%	7	8	3,027	3,328	33	38	43	60
Maine	801	827	-3.2%	NM	0	649	683	9	11	142	133
Massachusetts	1,202	1,265	-5.0%	39	25	1,097	1,179	50	41	16	20
New Hampshire	1,388	1,400	-0.9%	35	58	1,344	1,333	6	7	3	3
Rhode Island	655	617	6.2%	0	0	639	601	4	4	NM	12
Vermont	194	167	16.1%	83	77	111	90	0	0	0	0
Middle Atlantic	31,354	34,139	-8.2%	3,019	2,775	27,820	30,867	188	185	326	312
New Jersey	4,226	5,510	-23.3%	NM	14	4,097	5,376	53	55	63	65
New York	10,464	10,604	-1.3%	3,002	2,756	7,294	7,681	104	96	64	71
Pennsylvania	16,664	18,025	-7.6%	5	4	16,429	17,810	30	34	199	176
East North Central	45,089	46,729	-3.5%	14,085	16,974	30,035	28,658	121	139	849	959
Illinois	14,540	15,189	-4.3%	174	410	14,139	14,521	23	30	204	227
Indiana	6,144	9,099	-32.5%	3,415	6,150	2,380	2,519	20	25	329	405
Michigan	9,206	8,631	6.7%	6,361	5,524	2,677	2,930	53	58	115	118
Ohio	10,977	8,741	25.6%	1,083	1,001	9,814	7,671	13	14	68	56
Wisconsin	4,221	5,069	-16.7%	3,053	3,889	1,024	1,016	12	11	132	153
West North Central	27,478	28,804	-4.6%	20,030	22,288	7,129	6,140	46	52	273	324
Iowa	4,746	5,383	-11.8%	3,539	3,959	1,050	1,217	15	19	142	188
Kansas	4,497	4,365	3.0%	2,373	2,511	2,104	1,838	NM	2	18	14
Minnesota	4,713	5,060	-6.9%	3,347	3,695	1,270	1,275	18	14	77	76
Missouri	5,485	6,160	-11.0%	5,006	5,885	465	256	11	16	3	4
Nebraska	2,832	3,094	-8.5%	1,961	2,340	854	717	1	2	16	36
North Dakota	3,712	3,622	2.5%	2,846	3,008	850	609	NM	0	15	5
South Dakota	1,493	1,120	33.4%	959	890	535	228	NM	0	0	1
South Atlantic	58,013	59,787	-3.0%	47,388	48,571	8,978	9,534	144	145	1,503	1,537
Delaware	298	316	-5.8%	4	1	231	204	0	1	62	111
District of Columbia	16	14	18.5%	0	0	NM	1	15	13	0	0
Florida	18,250	17,354	5.2%	17,109	16,278	745	639	6	6	390	432
Georgia	9,549	10,144	-5.9%	7,735	8,455	1,373	1,254	NM	0	441	434
Maryland	2,695	2,972	-9.3%	238	96	2,380	2,800	74	73	4	4
North Carolina	9,207	10,460	-12.0%	7,800	8,900	1,246	1,391	20	27	141	143
South Carolina	7,020	7,065	-0.6%	6,613	6,684	258	257	0	0	148	124
Virginia	6,936	6,498	6.7%	5,508	4,410	1,197	1,856	27	26	203	206
West Virginia	4,041	4,963	-18.6%	2,380	3,748	1,547	1,132	0	0	114	83
East South Central	23,502	26,953	-12.8%	20,563	23,015	2,157	3,054	18	19	764	865
Alabama	9,787	11,240	-12.9%	7,344	8,017	2,070	2,785	0	0	373	439
Kentucky	4,555	4,824	-5.6%	4,492	4,727	21	46	0	0	42	51
Mississippi	3,971	4,616	-14.0%	3,772	4,255	32	192	0	0	167	169
Tennessee	5,190	6,272	-17.3%	4,955	6,016	34	32	18	19	182	205
West South Central	51,465	53,694	-4.2%	14,456	15,943	31,038	31,065	62	62	5,909	6,625
Arkansas	3,832	4,610	-16.9%	3,295	4,090	428	410	NM	4	104	106
Louisiana	7,631	7,289	4.7%	4,671	3,990	387	557	17	11	2,556	2,731
Oklahoma	5,300	5,784	-8.4%	1,617	2,616	3,606	3,094	0	0	78	74
Texas	34,702	36,011	-3.6%	4,873	5,246	26,618	27,004	41	47	3,170	3,714
Mountain	27,425	28,556	-4.0%	20,430	21,623	6,580	6,582	85	83	330	268
Arizona	7,671	7,542	1.7%	6,424	6,538	1,236	992	11	12	0	0
Colorado	4,218	4,712	-10.5%	2,950	3,592	1,255	1,112	3	3	10	6
Idaho	1,569	1,466	7.1%	1,064	921	457	486	5	6	43	53
Montana	1,949	2,368	-17.7%	935	737	1,011	1,628	0	0	3	3
Nevada	2,630	2,976	-11.6%	1,617	2,007	948	885	50	51	15	33
New Mexico	2,284	2,831	-19.3%	1,251	1,850	1,026	973	NM	8	0	0
Utah	3,205	3,263	-1.8%	2,859	2,974	294	246	8	5	45	38
Wyoming	3,899	3,400	14.7%	3,330	3,005	355	260	0	0	214	134
Pacific Contiguous	28,922	27,999	3.3%	15,783	16,220	11,571	10,169	195	226	1,372	1,384
California	14,382	14,351	0.2%	4,506	5,437	8,552	7,554	187	219	1,136	1,140
Oregon	5,292	4,940	7.1%	3,680	3,539	1,549	1,347	6	6	56	49
Washington	9,248	8,708	6.2%	7,597	7,244	1,470	1,268	2	1	180	195
Pacific Noncontiguous	1,180	1,336	-11.7%	776	890	319	362	55	53	30	30
Alaska	425	494	-13.9%	369	440	22	23	25	21	9	9
Hawaii	755	842	-10.4%	407	450	297	339	30	32	21	22
U.S. Total	301,776	315,708	-4.4%	156,695	168,466	132,495	133,645	1,016	1,066	11,570	12,531

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	88,696	91,323	-2.9%	2,009	2,156	82,903	85,232	1,143	1,191	2,642	2,743
Connecticut	37,476	36,353	3.1%	68	90	36,475	35,257	368	401	565	605
Maine	9,557	9,483	0.8%	NM	3	7,736	7,625	101	122	1,717	1,732
Massachusetts	16,695	19,788	-15.6%	545	370	15,384	18,627	564	549	201	242
New Hampshire	15,371	16,451	-6.6%	444	824	14,848	15,537	54	63	26	27
Rhode Island	7,391	7,183	2.9%	0	0	7,205	6,992	53	54	133	137
Vermont	2,206	2,065	6.8%	949	868	1,255	1,194	2	3	0	0
Middle Atlantic	387,779	393,790	-1.5%	33,966	31,998	348,235	355,820	2,143	2,186	3,436	3,787
New Jersey	57,339	64,826	-11.5%	122	139	55,930	63,332	619	648	669	707
New York	121,341	120,074	1.1%	33,762	31,765	85,662	86,374	1,183	1,174	734	762
Pennsylvania	209,100	208,890	0.1%	82	94	206,643	206,114	342	364	2,033	2,318
East North Central	498,561	536,489	-7.1%	170,704	198,533	316,473	326,485	1,507	1,602	9,878	9,868
Illinois	157,654	168,855	-6.6%	4,505	4,765	150,464	161,403	311	331	2,374	2,356
Indiana	80,505	94,449	-14.8%	50,881	65,449	25,404	24,742	233	267	3,986	3,990
Michigan	94,858	106,495	-10.9%	60,869	72,162	32,121	32,376	623	669	1,245	1,288
Ohio	109,322	109,344	0.0%	11,161	11,970	97,253	96,521	207	211	701	642
Wisconsin	56,222	57,346	-2.0%	43,287	44,188	11,230	11,442	133	125	1,571	1,591
West North Central	308,715	313,159	-1.4%	235,411	248,340	69,492	60,632	571	590	3,241	3,597
Iowa	52,960	56,381	-6.1%	39,642	42,343	11,394	11,757	185	211	1,738	2,069
Kansas	49,473	46,419	6.6%	29,461	28,823	19,828	17,499	15	15	168	82
Minnesota	51,368	54,179	-5.2%	36,708	40,916	13,561	12,048	194	176	906	1,037
Missouri	66,948	71,850	-6.8%	61,343	66,628	5,410	5,021	159	171	36	30
Nebraska	33,498	33,846	-1.0%	25,684	27,299	7,571	6,219	15	16	228	312
North Dakota	38,942	37,183	4.7%	31,330	30,895	7,443	6,234	NM	0	166	54
South Dakota	15,527	13,301	16.7%	11,243	11,436	4,284	1,854	NM	0	0	11
South Atlantic	725,245	747,318	-3.0%	593,694	617,190	112,955	111,214	1,715	1,840	16,881	17,074
Delaware	4,777	5,046	-5.3%	32	33	3,676	3,774	5	5	1,064	1,234
District of Columbia	189	156	20.8%	0	0	17	8	171	148	0	0
Florida	231,890	227,702	1.8%	216,681	212,763	10,734	10,217	67	63	4,408	4,659
Georgia	108,071	118,181	-8.6%	86,162	98,274	17,116	15,179	4	7	4,790	4,722
Maryland	33,267	36,388	-8.6%	2,907	3,285	29,432	31,996	885	965	43	142
North Carolina	112,487	120,626	-6.7%	93,564	102,303	17,102	16,469	249	316	1,571	1,537
South Carolina	89,566	91,853	-2.5%	84,829	87,773	3,061	2,636	3	2	1,672	1,442
Virginia	93,483	88,156	6.0%	72,304	67,726	18,691	17,899	331	333	2,156	2,198
West Virginia	51,517	59,209	-13.0%	37,214	45,033	13,125	13,035	0	0	1,178	1,141
East South Central	311,942	334,031	-6.6%	267,295	288,424	35,859	36,428	202	194	8,586	8,986
Alabama	123,921	131,203	-5.6%	87,294	93,744	32,399	32,972	0	0	4,228	4,487
Kentucky	57,272	66,044	-13.3%	56,336	65,215	479	366	0	0	457	464
Mississippi	60,140	61,030	-1.5%	55,878	56,642	2,519	2,667	0	0	1,743	1,722
Tennessee	70,609	75,753	-6.8%	67,787	72,823	461	423	202	194	2,159	2,313
West South Central	655,261	675,725	-3.0%	212,901	227,277	374,373	376,169	867	906	67,120	71,373
Arkansas	48,360	59,424	-18.6%	42,885	52,937	4,330	4,951	58	52	1,087	1,483
Louisiana	93,437	92,740	0.8%	61,367	55,733	4,969	7,493	172	148	26,929	29,366
Oklahoma	76,519	78,338	-2.3%	35,770	38,408	39,906	39,178	0	0	843	752
Texas	436,946	445,223	-1.9%	72,878	80,198	325,168	324,547	637	706	38,262	39,772
Mountain	329,666	341,265	-3.4%	250,737	262,422	74,837	75,334	929	923	3,163	2,586
Arizona	100,561	104,561	-3.8%	84,330	89,225	16,090	15,196	140	141	0	0
Colorado	49,339	51,334	-3.9%	36,046	39,660	13,170	11,575	48	31	75	68
Idaho	17,854	17,012	5.0%	11,897	11,120	5,367	5,307	61	58	529	526
Montana	21,372	25,673	-16.8%	10,813	10,092	10,527	15,553	0	0	32	28
Nevada	37,622	36,803	2.2%	25,214	25,121	11,571	10,870	524	519	313	293
New Mexico	31,507	32,220	-2.2%	19,973	21,757	11,431	10,359	92	99	11	4
Utah	33,502	35,416	-5.4%	29,503	31,334	3,570	3,538	64	74	365	471
Wyoming	37,909	38,245	-0.9%	32,960	34,113	3,111	2,937	0	0	1,838	1,195
Pacific Contiguous	343,072	341,072	0.6%	196,502	198,223	129,220	125,270	2,329	2,485	15,021	15,094
California	178,886	187,059	-4.4%	63,464	77,125	100,748	94,971	2,238	2,399	12,437	12,564
Oregon	59,602	56,767	5.0%	42,169	40,031	16,761	16,153	67	65	605	518
Washington	104,584	97,246	7.5%	90,869	81,068	11,712	14,145	24	21	1,979	2,012
Pacific Noncontiguous	13,872	14,458	-4.1%	9,301	9,768	3,622	3,716	619	620	329	354
Alaska	5,458	5,536	-1.4%	4,827	4,968	245	220	284	243	102	106
Hawaii	8,414	8,922	-5.7%	4,474	4,801	3,377	3,495	335	378	227	248
U.S. Total	3,662,811	3,788,629	-3.3%	1,972,520	2,084,331	1,547,969	1,556,300	12,025	12,538	130,297	135,461

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	9	25	-62.0%	6	21	2	4	0	0	1	1
Connecticut	-1	-2	-39.6%	0	0	-1	-2	0	0	0	0
Maine	5	6	-23.9%	0	0	3	6	0	0	1	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	6	21	-71.2%	6	21	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,126	3,358	-36.7%	0	0	2,118	3,353	0	0	7	5
New Jersey	47	79	-40.5%	0	0	47	79	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	2,079	3,279	-36.6%	0	0	2,071	3,274	0	0	7	5
East North Central	16,122	17,054	-5.5%	8,777	10,039	7,207	6,861	2	4	136	151
Illinois	2,712	4,177	-35.1%	105	276	2,494	3,778	0	0	112	123
Indiana	4,203	5,391	-22.0%	3,822	4,967	379	420	2	4	0	0
Michigan	2,896	2,293	26.3%	2,866	2,256	29	36	0	0	0	2
Ohio	4,749	3,133	51.6%	444	507	4,305	2,626	0	0	0	0
Wisconsin	1,564	2,060	-24.1%	1,540	2,034	0	0	0	0	24	26
West North Central	10,911	13,537	-19.4%	10,772	13,368	0	0	4	7	134	163
Iowa	529	1,740	-69.6%	426	1,609	0	0	4	5	98	126
Kansas	1,190	1,486	-19.9%	1,190	1,486	0	0	0	0	0	0
Minnesota	1,349	1,507	-10.5%	1,339	1,506	0	0	0	0	NM	1
Missouri	4,432	4,593	-3.5%	4,432	4,592	0	0	0	1	0	0
Nebraska	1,262	1,639	-23.0%	1,246	1,603	0	0	0	0	16	36
North Dakota	1,968	2,322	-15.2%	1,959	2,322	0	0	0	0	NM	0
South Dakota	181	251	-27.8%	181	251	0	0	0	0	0	0
South Atlantic	8,278	12,775	-35.2%	6,934	11,273	1,296	1,455	2	4	46	43
Delaware	14	-1	NM	0	0	14	-1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,267	1,945	-34.9%	1,264	1,942	0	0	0	0	3	3
Georgia	1,147	1,527	-24.9%	1,132	1,511	0	0	0	0	15	15
Maryland	110	527	-79.1%	0	0	110	527	0	0	0	0
North Carolina	1,176	2,772	-57.6%	1,152	2,749	9	8	2	4	12	11
South Carolina	894	1,084	-17.6%	873	1,067	18	16	0	0	3	1
Virginia	227	363	-37.4%	207	350	6	0	0	0	14	12
West Virginia	3,443	4,559	-24.5%	2,305	3,655	1,138	904	0	0	0	0
East South Central	5,577	6,964	-19.9%	5,548	6,763	0	163	0	0	29	39
Alabama	1,916	2,267	-15.5%	1,916	2,267	0	0	0	0	0	0
Kentucky	2,997	3,158	-5.1%	2,997	3,158	0	0	0	0	0	0
Mississippi	163	187	-12.6%	163	24	0	163	0	0	0	0
Tennessee	501	1,352	-62.9%	472	1,314	0	0	0	0	29	39
West South Central	8,052	9,252	-13.0%	3,408	3,943	4,641	5,295	0	0	3	14
Arkansas	1,161	1,941	-40.2%	788	1,551	370	386	0	0	3	4
Louisiana	118	321	-63.2%	96	181	22	140	0	0	0	0
Oklahoma	233	203	14.9%	233	193	0	0	0	0	0	10
Texas	6,539	6,786	-3.6%	2,291	2,017	4,249	4,769	0	0	0	0
Mountain	9,193	11,335	-18.9%	8,410	9,768	752	1,532	0	0	31	36
Arizona	1,157	1,335	-13.3%	1,157	1,335	0	0	0	0	0	0
Colorado	1,477	2,132	-30.7%	1,477	2,132	0	0	0	0	0	0
Idaho	NM	3	NM	0	0	0	0	0	0	NM	3
Montana	607	1,374	-55.8%	25	26	580	1,346	0	0	NM	1
Nevada	77	145	-47.1%	-3	48	80	97	0	0	0	0
New Mexico	620	1,246	-50.3%	620	1,246	0	0	0	0	0	0
Utah	2,199	2,287	-3.9%	2,166	2,250	33	38	0	0	0	0
Wyoming	3,055	2,814	8.6%	2,969	2,732	59	51	0	0	28	32
Pacific Contiguous	847	1,059	-20.0%	0	240	817	790	0	0	30	30
California	27	26	3.8%	0	0	0	0	0	0	27	26
Oregon	0	240	-100.0%	0	240	0	0	0	0	0	0
Washington	820	793	3.3%	0	0	817	790	0	0	2	3
Pacific Noncontiguous	176	190	-7.2%	48	43	118	139	10	8	0	0
Alaska	74	69	6.9%	48	43	NM	19	10	8	0	0
Hawaii	102	120	-15.2%	0	0	102	120	0	0	0	0
U.S. Total	61,291	75,549	-18.9%	43,902	55,455	16,952	19,591	19	23	417	480

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

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	102	416	-75.6%	65	296	25	110	0	0	12	10
Connecticut	-18	56	-132.1%	0	0	-18	56	0	0	0	0
Maine	54	64	-15.8%	0	0	42	55	0	0	12	10
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	65	296	-77.9%	65	296	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	21,137	35,911	-41.1%	0	0	21,081	35,828	0	0	56	83
New Jersey	837	958	-12.6%	0	0	837	958	0	0	0	0
New York	144	422	-65.9%	0	0	144	422	0	0	0	0
Pennsylvania	20,156	34,531	-41.6%	0	0	20,100	34,448	0	0	56	83
East North Central	157,187	204,138	-23.0%	90,381	119,240	65,146	83,125	25	53	1,636	1,720
Illinois	27,409	45,693	-40.0%	1,492	3,206	24,538	41,083	7	12	1,371	1,392
Indiana	43,138	56,793	-24.0%	38,833	52,893	4,288	3,859	17	41	0	0
Michigan	24,785	34,488	-28.1%	24,443	34,125	340	347	0	0	2	17
Ohio	40,093	42,899	-6.5%	4,114	5,059	35,980	37,837	0	0	0	3
Wisconsin	21,762	24,265	-10.3%	21,500	23,957	0	0	0	0	263	308
West North Central	127,733	147,535	-13.4%	126,002	145,539	0	0	51	71	1,680	1,926
Iowa	12,692	20,655	-38.6%	11,434	19,177	0	0	47	61	1,211	1,417
Kansas	15,347	15,940	-3.7%	15,347	15,940	0	0	0	0	0	0
Minnesota	12,458	16,354	-23.8%	12,327	16,155	0	0	1	2	130	196
Missouri	46,260	51,132	-9.5%	46,257	51,125	0	0	3	7	0	0
Nebraska	17,154	18,446	-7.0%	16,926	18,134	0	0	0	0	228	312
North Dakota	22,351	22,602	-1.1%	22,240	22,602	0	0	0	0	112	0
South Dakota	1,472	2,406	-38.8%	1,472	2,406	0	0	0	0	0	0
South Atlantic	108,154	148,995	-27.4%	95,226	132,621	12,471	15,806	30	35	428	533
Delaware	83	122	-32.0%	0	0	83	122	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15,235	19,989	-23.8%	15,210	19,942	0	0	0	0	25	47
Georgia	11,839	23,740	-50.1%	11,674	23,573	0	0	0	0	165	167
Maryland	3,012	5,390	-44.1%	0	0	3,012	5,358	0	0	0	32
North Carolina	18,443	28,768	-35.9%	18,208	28,533	90	79	28	32	117	125
South Carolina	11,023	13,791	-20.1%	10,849	13,588	162	195	0	0	13	8
Virginia	3,118	3,335	-6.5%	2,975	3,106	34	72	1	4	108	154
West Virginia	45,401	53,861	-15.7%	36,311	43,880	9,090	9,980	0	0	0	0
East South Central	76,306	94,345	-19.1%	73,844	91,531	2,090	2,350	0	0	372	463
Alabama	19,762	24,657	-19.9%	19,762	24,641	0	0	0	0	0	17
Kentucky	39,298	47,563	-17.4%	39,298	47,563	0	0	0	0	0	0
Mississippi	4,078	4,385	-7.0%	1,989	2,035	2,090	2,350	0	0	0	0
Tennessee	13,167	17,739	-25.8%	12,795	17,293	0	0	0	0	372	446
West South Central	93,980	121,818	-22.9%	44,788	63,769	49,095	57,905	0	0	97	143
Arkansas	14,085	21,467	-34.4%	11,187	17,855	2,867	3,573	0	0	31	39
Louisiana	3,609	7,110	-49.2%	3,354	5,427	255	1,683	0	0	0	0
Oklahoma	5,236	7,699	-32.0%	5,169	7,595	0	0	0	0	67	104
Texas	71,051	85,541	-16.9%	25,078	32,892	45,973	52,650	0	0	0	0
Mountain	102,277	128,669	-20.5%	92,741	113,742	9,188	14,571	0	0	347	356
Arizona	12,624	22,072	-42.8%	12,624	22,072	0	0	0	0	0	0
Colorado	17,709	22,896	-22.7%	17,709	22,892	0	0	0	0	0	4
Idaho	18	18	-1.9%	0	0	0	0	0	0	18	18
Montana	7,546	12,885	-41.4%	206	261	7,330	12,616	0	0	9	8
Nevada	1,865	2,521	-26.0%	931	1,579	933	941	0	0	0	0
New Mexico	11,632	13,617	-14.6%	11,632	13,617	0	0	0	0	0	0
Utah	20,560	22,600	-9.0%	20,271	22,230	289	370	0	0	0	0
Wyoming	30,323	32,060	-5.4%	29,367	31,090	636	643	0	0	320	326
Pacific Contiguous	6,179	8,740	-29.3%	1,630	2,221	4,262	6,284	0	0	286	235
California	262	213	23.1%	0	0	0	0	0	0	262	213
Oregon	1,630	2,221	-26.6%	1,630	2,221	0	0	0	0	0	0
Washington	4,287	6,306	-32.0%	0	0	4,262	6,284	0	0	24	22
Pacific Noncontiguous	1,721	1,810	-4.9%	369	364	1,248	1,364	104	82	0	0
Alaska	661	616	7.4%	369	364	188	169	104	82	0	0
Hawaii	1,059	1,194	-11.3%	0	0	1,059	1,194	0	0	0	0
U.S. Total	694,777	892,376	-22.1%	525,048	669,324	164,605	217,343	209	241	4,915	5,468

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	7	16	-57.6%	NM	2	2	10	2	2	2	1
Connecticut	NM	0	NM	0	1	NM	-1	0	0	0	0
Maine	3	3	23.6%	0	0	1	1	0	0	2	1
Massachusetts	NM	6	NM	NM	1	NM	4	NM	1	0	0
New Hampshire	2	4	-36.2%	NM	1	1	1	1	1	0	0
Rhode Island	1	4	-68.3%	0	0	1	4	0	0	NM	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	22	23	-2.4%	5	4	10	16	NM	0	6	2
New Jersey	2	7	-72.5%	0	0	2	7	NM	0	0	0
New York	15	5	206.0%	5	4	4	0	NM	0	6	1
Pennsylvania	5	10	-54.7%	0	0	4	10	0	0	NM	1
East North Central	29	43	-32.7%	19	19	10	23	NM	0	NM	1
Illinois	2	3	-16.5%	NM	1	2	2	NM	0	0	0
Indiana	14	9	50.4%	13	8	0	0	0	0	0	1
Michigan	3	5	-35.0%	3	5	0	0	NM	0	NM	0
Ohio	8	23	-63.1%	NM	1	8	21	0	0	0	0
Wisconsin	NM	4	NM	NM	4	0	0	NM	0	NM	0
West North Central	28	37	-24.4%	27	36	NM	1	0	0	0	0
Iowa	-2	15	-110.6%	-2	15	NM	0	0	0	0	0
Kansas	11	6	80.2%	11	6	0	0	0	0	0	0
Minnesota	2	5	-57.7%	2	4	NM	0	0	0	0	0
Missouri	13	6	131.1%	13	6	0	0	0	0	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	2	2	5.0%	2	2	0	0	0	0	0	0
South Dakota	NM	2	NM	NM	2	0	0	NM	0	0	0
South Atlantic	77	69	10.6%	56	53	12	5	5	4	4	7
Delaware	2	0	-761.6%	1	0	NM	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	12	10	17.4%	9	8	2	0	0	0	NM	2
Georgia	9	10	-10.6%	6	5	NM	1	0	0	NM	3
Maryland	4	1	315.2%	NM	0	4	1	NM	0	0	0
North Carolina	12	14	-15.3%	10	12	NM	0	NM	0	NM	1
South Carolina	4	9	-55.4%	4	7	0	1	0	0	0	1
Virginia	25	13	99.2%	17	7	4	2	4	4	NM	0
West Virginia	10	14	-25.8%	10	14	0	0	0	0	0	0
East South Central	12	-2	-711.8%	11	-4	NM	2	0	0	NM	1
Alabama	NM	3	NM	NM	1	NM	2	0	0	NM	0
Kentucky	7	-8	-187.3%	7	-8	0	0	0	0	0	0
Mississippi	0	0	-37.7%	0	0	0	0	0	0	0	0
Tennessee	4	2	97.8%	4	2	0	0	0	0	0	0
West South Central	13	28	-53.7%	10	11	2	13	0	0	0	4
Arkansas	4	8	-46.0%	3	6	1	1	0	0	NM	0
Louisiana	NM	13	NM	NM	2	0	11	0	0	0	0
Oklahoma	3	0	763.1%	3	0	0	0	0	0	0	0
Texas	4	7	-45.3%	3	3	NM	1	0	0	0	4
Mountain	26	27	-3.6%	23	27	3	1	NM	0	0	0
Arizona	5	3	37.7%	5	3	0	0	NM	0	0	0
Colorado	2	0	221.8%	2	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	0	535.5%	NM	0	3	0	0	0	0	0
Nevada	0	1	-68.2%	0	1	0	0	0	0	0	0
New Mexico	10	14	-23.3%	10	14	0	0	0	0	0	0
Utah	3	5	-34.0%	3	5	0	0	0	0	0	0
Wyoming	3	4	-8.0%	3	4	0	0	0	0	0	0
Pacific Contiguous	5	6	-10.1%	3	4	1	1	0	0	1	1
California	4	3	10.8%	3	3	0	0	0	0	1	0
Oregon	NM	1	NM	NM	1	0	0	NM	0	0	0
Washington	1	2	-7.4%	NM	0	1	1	0	0	NM	1
Pacific Noncontiguous	543	660	-17.7%	444	495	80	143	0	2	18	20
Alaska	62	73	-14.6%	60	69	NM	0	NM	1	2	3
Hawaii	480	587	-18.1%	385	426	80	143	0	1	16	17
U.S. Total	761	907	-16.0%	600	646	122	215	8	9	32	36

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	88	169	-47.6%	16	21	41	99	19	34	11	15
Connecticut	10	12	-13.2%	5	5	4	2	0	3	1	3
Maine	27	32	-17.3%	0	0	16	19	1	2	10	11
Massachusetts	29	89	-68.0%	6	6	14	67	8	15	0	1
New Hampshire	16	24	-31.9%	5	9	NM	3	10	12	0	0
Rhode Island	6	11	-45.1%	0	0	5	8	1	2	NM	0
Vermont	1	1	-3.7%	1	1	0	0	0	0	0	0
Middle Atlantic	262	677	-61.4%	89	213	148	428	10	14	15	22
New Jersey	27	60	-55.4%	0	1	26	56	0	2	0	1
New York	173	471	-63.2%	89	212	69	236	6	8	10	15
Pennsylvania	62	147	-57.8%	0	0	53	136	4	4	5	7
East North Central	354	452	-21.6%	232	275	113	162	2	2	6	13
Illinois	27	41	-35.3%	6	7	21	34	0	0	0	0
Indiana	107	120	-10.8%	105	113	0	0	0	NM	1	7
Michigan	77	88	-12.2%	73	84	0	0	1	1	2	2
Ohio	106	152	-30.5%	12	29	92	119	0	0	2	3
Wisconsin	38	51	-25.7%	36	41	1	9	NM	0	NM	0
West North Central	377	408	-7.6%	366	396	6	8	3	2	1	1
Iowa	130	149	-13.0%	127	146	2	3	0	0	0	0
Kansas	78	70	10.9%	78	70	0	0	0	0	0	0
Minnesota	39	46	-13.9%	32	37	NM	5	3	2	1	1
Missouri	79	83	-4.9%	79	83	0	0	0	0	0	0
Nebraska	13	15	-17.0%	13	15	0	0	0	0	0	0
North Dakota	29	31	-8.7%	29	31	0	0	0	0	0	0
South Dakota	10	13	-25.8%	10	13	0	0	NM	0	0	0
South Atlantic	806	1,097	-26.5%	591	843	117	145	42	42	56	67
Delaware	12	19	-37.4%	1	0	11	18	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	209	307	-31.7%	190	290	5	1	0	0	14	16
Georgia	36	99	-63.6%	7	55	NM	4	1	4	25	35
Maryland	64	64	0.7%	0	0	64	62	NM	1	0	1
North Carolina	114	175	-34.8%	102	163	3	4	NM	1	8	7
South Carolina	52	72	-28.2%	45	63	1	3	0	0	5	6
Virginia	192	248	-22.7%	118	159	31	51	40	36	3	2
West Virginia	128	115	11.3%	128	114	0	1	0	0	0	0
East South Central	157	203	-22.7%	147	189	1	4	0	0	9	10
Alabama	8	19	-59.2%	3	10	1	3	0	0	4	6
Kentucky	48	40	20.5%	48	40	0	0	0	0	0	0
Mississippi	7	13	-43.9%	4	11	0	0	0	0	3	2
Tennessee	93	131	-28.6%	92	128	0	0	0	0	1	2
West South Central	117	140	-16.5%	89	94	25	35	0	1	3	10
Arkansas	36	43	-18.0%	26	29	10	11	0	0	NM	3
Louisiana	12	27	-55.1%	12	16	0	11	0	0	0	0
Oklahoma	23	17	29.3%	22	16	0	0	0	0	1	1
Texas	47	52	-11.1%	30	33	15	13	0	1	2	6
Mountain	302	319	-5.3%	290	303	12	16	NM	0	0	0
Arizona	36	53	-32.7%	36	53	0	0	NM	0	0	0
Colorado	9	8	10.5%	9	8	0	0	0	0	0	0
Idaho	0	0	-77.6%	0	0	0	0	0	0	0	0
Montana	9	13	-32.4%	NM	2	9	12	0	0	0	0
Nevada	6	12	-48.8%	4	10	2	2	0	0	0	0
New Mexico	166	158	4.7%	166	158	0	0	0	0	0	0
Utah	36	36	1.4%	34	34	2	2	0	0	0	0
Wyoming	41	39	5.1%	40	38	0	0	0	0	0	0
Pacific Contiguous	69	71	-2.6%	39	39	14	14	1	1	15	17
California	44	47	-5.6%	31	32	7	6	0	1	7	9
Oregon	4	6	-31.8%	4	6	0	0	NM	0	0	0
Washington	21	18	15.0%	4	1	7	8	0	0	NM	8
Pacific Noncontiguous	6,478	7,088	-8.6%	5,084	5,299	1,177	1,546	8	12	209	232
Alaska	877	805	9.0%	829	753	2	2	2	6	44	43
Hawaii	5,600	6,284	-10.9%	4,255	4,546	1,175	1,543	5	5	165	189
U.S. Total	9,009	10,623	-15.2%	6,943	7,672	1,655	2,456	86	106	325	389

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6	7	-13.2%	0	0	0	0	0	0	6	7
New Jersey	6	7	-13.2%	0	0	0	0	0	0	6	7
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	143	37	287.2%	17	23	NM	0	0	0	16	14
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	29	27	6.9%	13	13	0	0	0	0	16	14
Ohio	NM	0	NM	0	0	NM	0	0	0	0	0
Wisconsin	4	10	-64.6%	4	10	0	0	0	0	0	0
West North Central	5	0	--	0	0	0	0	0	0	5	0
Iowa	5	0	--	0	0	0	0	0	0	5	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	103	119	-13.8%	85	108	0	0	0	0	NM	11
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	85	108	-21.7%	85	108	0	0	0	0	0	0
Georgia	NM	11	NM	0	0	0	0	0	0	NM	11
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	346	129	168.0%	337	120	0	0	0	0	9	9
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	337	120	180.4%	337	120	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	9	2.3%	0	0	0	0	0	0	9	9
Mountain	40	41	-2.1%	0	0	40	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	40	41	-2.1%	0	0	40	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	643	333	92.9%	438	251	151	41	0	0	54	41

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	42	93	-55.1%	0	0	0	0	0	0	42	93
New Jersey	42	64	-35.2%	0	0	0	0	0	0	42	64
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	28	-100.0%	0	0	0	0	0	0	0	28
East North Central	1,686	1,447	16.5%	685	691	854	616	0	0	147	140
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	754	743	1.4%	608	607	0	0	0	0	147	136
Ohio	855	620	37.9%	0	0	854	616	0	0	0	4
Wisconsin	77	84	-8.0%	77	84	0	0	0	0	0	0
West North Central	65	72	-9.3%	0	0	0	0	2	4	63	68
Iowa	65	72	-9.3%	0	0	0	0	2	4	63	68
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,566	1,222	28.2%	1,377	1,093	0	0	0	0	189	128
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	1,377	1,093	25.9%	1,377	1,093	0	0	0	0	0	0
Georgia	189	128	47.5%	0	0	0	0	0	0	189	128
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	3,197	3,115	2.6%	3,111	3,013	0	0	0	0	86	102
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	3,111	3,024	2.9%	3,111	3,013	0	0	0	0	0	11
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	86	91	-5.7%	0	0	0	0	0	0	86	91
Mountain	414	407	1.8%	0	0	414	407	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	414	407	1.8%	0	0	414	407	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	6,970	6,356	9.7%	5,172	4,797	1,269	1,023	2	4	527	531

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	3,577	3,642	-1.8%	NM	6	3,376	3,432	83	79	104	124
Connecticut	1,820	1,777	2.4%	4	5	1,740	1,675	32	37	43	59
Maine	57	86	-34.5%	0	0	NM	53	3	3	31	30
Massachusetts	869	975	-10.9%	NM	1	800	919	43	35	16	20
New Hampshire	226	233	-3.2%	0	0	222	230	1	1	3	3
Rhode Island	605	570	6.3%	0	0	590	555	4	3	NM	12
Vermont	0	0	241.6%	0	0	0	0	0	0	0	0
Middle Atlantic	13,696	14,389	-4.8%	983	737	12,437	13,376	88	92	188	184
New Jersey	2,237	3,282	-31.8%	NM	9	2,175	3,217	16	22	32	34
New York	3,933	3,575	10.0%	969	727	2,861	2,742	63	58	40	48
Pennsylvania	7,525	7,532	-0.1%	0	0	7,401	7,417	10	13	115	102
East North Central	9,406	12,413	-24.2%	1,878	4,198	7,127	7,692	99	115	302	408
Illinois	1,194	1,414	-15.5%	52	121	1,071	1,199	22	29	50	64
Indiana	857	2,884	-70.3%	-483	1,120	1,204	1,542	15	17	121	204
Michigan	2,001	2,844	-29.7%	563	1,012	1,347	1,730	44	49	47	54
Ohio	4,103	3,675	11.6%	615	467	3,446	3,175	11	13	30	20
Wisconsin	1,251	1,597	-21.6%	1,131	1,478	60	45	7	8	54	66
West North Central	1,561	2,064	-24.4%	1,281	1,638	186	312	23	28	70	87
Iowa	286	523	-45.2%	243	454	0	0	9	10	35	58
Kansas	179	175	2.3%	161	162	0	0	0	0	18	13
Minnesota	488	911	-46.4%	350	587	118	308	8	7	12	9
Missouri	468	271	72.8%	390	252	68	4	6	11	3	4
Nebraska	NM	36	NM	NM	36	0	0	0	0	0	0
North Dakota	91	91	0.3%	89	90	0	0	0	0	2	1
South Dakota	NM	58	NM	NM	57	0	0	0	0	0	1
South Atlantic	27,815	26,962	3.2%	23,234	21,531	4,106	4,898	94	93	381	439
Delaware	267	295	-9.4%	3	0	208	198	0	0	56	97
District of Columbia	11	8	32.8%	0	0	0	0	11	8	0	0
Florida	13,637	12,198	11.8%	13,097	11,728	431	336	2	2	107	132
Georgia	4,527	4,826	-6.2%	3,520	3,776	949	997	0	0	58	53
Maryland	1,060	920	15.2%	237	95	747	750	72	71	4	4
North Carolina	2,911	3,105	-6.2%	2,349	2,334	538	746	NM	11	15	14
South Carolina	1,629	1,733	-6.0%	1,564	1,611	52	108	0	0	13	14
Virginia	3,519	3,720	-5.4%	2,456	1,943	999	1,700	0	3	64	75
West Virginia	254	157	61.8%	7	43	182	63	0	0	65	51
East South Central	9,041	10,631	-15.0%	6,691	7,508	2,066	2,802	18	19	267	303
Alabama	3,329	4,143	-19.6%	1,181	1,248	2,045	2,757	0	0	103	138
Kentucky	1,102	1,244	-11.4%	1,064	1,179	20	44	0	0	19	21
Mississippi	3,507	3,762	-6.8%	3,463	3,719	0	0	0	0	44	43
Tennessee	1,103	1,482	-25.6%	983	1,361	1	1	18	19	101	101
West South Central	23,919	27,146	-11.9%	7,413	8,780	11,214	12,411	60	56	5,232	5,898
Arkansas	966	1,447	-33.2%	932	1,417	12	0	NM	3	19	28
Louisiana	5,563	4,818	15.5%	3,115	2,115	240	329	17	11	2,191	2,363
Oklahoma	1,966	2,913	-32.5%	941	2,115	976	761	0	0	49	37
Texas	15,425	17,967	-14.2%	2,425	3,133	9,987	11,322	40	42	2,973	3,471
Mountain	8,476	8,875	-4.5%	6,742	7,143	1,580	1,563	33	32	120	138
Arizona	3,701	3,277	12.9%	2,818	2,578	872	688	10	11	0	0
Colorado	1,213	1,464	-17.2%	1,016	1,216	190	245	0	1	6	2
Idaho	303	460	-34.1%	215	268	73	176	3	3	13	12
Montana	27	45	-41.0%	20	30	6	14	0	0	0	1
Nevada	1,657	2,024	-18.1%	1,451	1,799	186	188	5	5	15	33
New Mexico	844	812	4.0%	584	559	253	246	NM	7	0	0
Utah	633	688	-8.0%	598	651	0	6	7	5	28	27
Wyoming	97	105	-7.4%	39	42	0	0	0	0	58	63
Pacific Contiguous	10,206	11,566	-11.8%	3,995	4,752	5,127	5,689	118	151	966	974
California	7,850	8,532	-8.0%	2,617	3,048	4,227	4,431	114	147	892	905
Oregon	1,557	1,771	-12.1%	797	787	748	972	4	4	9	8
Washington	798	1,264	-36.8%	582	916	152	286	0	0	65	61
Pacific Noncontiguous	125	215	-41.8%	119	210	0	0	0	0	6	5
Alaska	125	215	-41.8%	119	210	0	0	0	0	6	5
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	107,821	117,904	-8.6%	52,350	56,502	47,219	52,175	616	667	7,636	8,561

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	46,109	44,855	2.8%	248	138	43,563	42,324	948	957	1,351	1,437
Connecticut	21,440	19,133	12.1%	36	49	20,477	18,088	363	394	564	602
Maine	1,614	1,669	-3.3%	0	0	1,150	1,207	29	28	436	434
Massachusetts	12,709	13,998	-9.2%	197	83	11,819	13,201	501	479	192	236
New Hampshire	3,531	3,309	6.7%	14	4	3,481	3,267	9	11	26	27
Rhode Island	6,814	6,744	1.0%	0	0	6,635	6,562	46	45	133	137
Vermont	2	2	16.1%	1	1	0	0	1	1	0	0
Middle Atlantic	187,670	170,071	10.3%	10,375	9,051	174,071	157,591	1,022	1,104	2,201	2,324
New Jersey	28,953	37,201	-22.2%	142	149	28,241	36,439	173	229	397	384
New York	48,921	43,620	12.2%	10,229	8,898	37,429	33,452	741	746	522	523
Pennsylvania	109,796	89,250	23.0%	5	4	108,401	87,700	109	129	1,281	1,416
East North Central	149,776	144,770	3.5%	48,737	47,124	95,855	92,551	1,254	1,301	3,931	3,795
Illinois	22,255	19,265	15.5%	2,823	1,399	18,637	17,059	295	310	501	497
Indiana	28,222	28,988	-2.6%	11,187	11,774	14,999	15,175	173	185	1,863	1,853
Michigan	31,851	31,458	1.2%	10,365	10,848	20,387	19,510	530	554	569	546
Ohio	47,849	46,612	2.7%	6,756	6,617	40,636	39,583	192	196	266	216
Wisconsin	19,600	18,448	6.2%	17,607	16,486	1,197	1,225	64	55	732	683
West North Central	30,730	32,055	-4.1%	24,976	26,164	4,700	4,810	315	320	738	761
Iowa	6,255	7,029	-11.0%	5,735	6,392	NM	0	103	108	416	529
Kansas	2,831	2,821	0.4%	2,667	2,743	0	0	0	0	164	78
Minnesota	10,298	11,409	-9.7%	7,492	8,729	2,607	2,487	92	87	107	106
Missouri	7,432	7,189	3.4%	5,189	4,716	2,093	2,323	117	122	33	28
Nebraska	1,393	1,195	16.6%	1,389	1,191	0	0	4	4	0	0
North Dakota	1,383	1,346	2.7%	1,365	1,338	0	0	0	0	18	9
South Dakota	1,138	1,066	6.7%	1,138	1,055	0	0	0	0	0	11
South Atlantic	367,361	355,718	3.3%	303,033	292,275	58,457	57,603	1,098	1,177	4,773	4,662
Delaware	4,423	4,611	-4.1%	25	27	3,482	3,542	0	0	917	1,041
District of Columbia	121	98	23.4%	0	0	0	0	121	98	0	0
Florida	175,573	169,196	3.8%	167,157	161,130	6,904	6,526	22	18	1,489	1,523
Georgia	53,844	53,610	0.4%	40,965	40,726	12,277	12,395	0	0	601	488
Maryland	13,234	13,679	-3.3%	2,898	3,277	9,443	9,408	851	934	43	61
North Carolina	37,775	37,800	-0.1%	30,102	29,629	7,418	7,916	98	114	157	141
South Carolina	22,475	21,959	2.4%	21,725	20,892	578	952	0	0	173	115
Virginia	57,319	52,596	9.0%	40,065	36,219	16,467	15,658	7	14	779	705
West Virginia	2,598	2,168	19.8%	96	374	1,889	1,206	0	0	614	588
East South Central	126,534	127,796	-1.0%	90,826	91,477	32,511	32,954	197	189	3,000	3,176
Alabama	50,369	53,212	-5.3%	17,161	19,198	32,029	32,586	0	0	1,179	1,429
Kentucky	13,302	14,116	-5.8%	12,630	13,554	463	348	0	0	209	213
Mississippi	48,699	44,896	8.5%	48,212	44,432	4	4	0	0	483	460
Tennessee	14,165	15,572	-9.0%	12,824	14,293	15	16	197	189	1,129	1,074
West South Central	352,818	360,945	-2.3%	125,053	125,128	167,226	171,796	797	828	59,741	63,192
Arkansas	15,342	20,263	-24.3%	14,010	18,896	1,077	1,051	37	39	218	278
Louisiana	65,959	64,620	2.1%	39,421	34,837	3,342	4,415	172	148	23,025	25,219
Oklahoma	40,634	40,251	1.0%	25,747	25,811	14,423	14,063	0	0	464	377
Texas	230,883	235,810	-2.1%	45,876	45,585	148,385	152,266	589	640	36,034	37,318
Mountain	113,947	105,499	8.0%	91,649	84,531	20,469	19,268	365	384	1,464	1,316
Arizona	46,952	41,937	12.0%	36,191	31,659	10,635	10,153	126	125	0	0
Colorado	17,113	15,580	9.8%	14,396	13,340	2,681	2,215	6	3	30	22
Idaho	3,644	3,763	-3.2%	2,050	1,987	1,429	1,622	36	36	128	117
Montana	352	465	-24.3%	302	318	47	145	0	0	NM	3
Nevada	24,661	23,557	4.7%	22,294	21,224	2,002	1,983	56	58	310	291
New Mexico	11,389	10,717	6.3%	7,653	7,533	3,636	3,083	89	97	11	4
Utah	8,519	8,568	-0.6%	8,133	8,105	38	66	52	66	295	331
Wyoming	1,317	913	44.2%	630	363	1	1	0	0	686	549
Pacific Contiguous	112,755	109,718	2.8%	44,104	43,934	56,928	53,735	1,434	1,614	10,289	10,435
California	83,108	77,169	7.7%	26,753	25,731	45,470	40,157	1,383	1,566	9,502	9,714
Oregon	16,895	18,698	-9.6%	8,535	9,163	8,210	9,433	42	40	108	62
Washington	12,752	13,851	-7.9%	8,817	9,040	3,248	4,145	9	7	678	658
Pacific Noncontiguous	2,060	2,459	-16.2%	2,002	2,397	0	0	0	0	58	62
Alaska	2,060	2,459	-16.2%	2,002	2,397	0	0	0	0	58	62
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,489,761	1,453,887	2.5%	741,005	722,220	653,781	632,633	7,431	7,875	87,544	91,159

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

Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2010-November 2020 (Thousand Megawatthours)

	Natural Gas					
Period	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	Total
Annual Factors						
2010	804,033	85,820	96,332	1,490	22	987,697
2011	828,554	85,392	97,578	2,125	40	1,013,689
2012	1,017,040	98,446	108,285	1,986	138	1,225,894
2013	947,172	91,272	83,746	2,328	317	1,124,836
2014	958,921	90,159	74,100	2,921	508	1,126,609
2015	1,130,617	108,655	89,796	3,760	654	1,333,482
2016	1,152,245	123,429	98,204	3,714	715	1,378,307
2017	1,094,952	111,732	84,520	4,370	869	1,296,442
2018	1,231,946	132,866	98,017	5,203	1,101	1,469,133
2019	1,342,027	129,394	106,113	6,655	1,527	1,585,717
Year 2018						
January	93,426	10,362	6,045	382	77	110,293
February	86,046	8,021	4,015	352	77	98,512
March	90,850	9,834	5,356	395	88	106,524
April	82,423	9,766	5,761	348	73	98,371
May	94,192	10,839	9,763	421	68	115,284
June	108,641	11,513	10,170	424	79	130,826
July	133,649	15,618	14,735	630	116	164,749
August	133,733	14,426	12,809	587	122	161,676
Sept	118,249	12,775	10,195	465	102	141,786
October	102,793	11,156	8,654	428	111	123,142
November	91,899	9,822	5,963	389	94	108,168
December	96,044	8,733	4,551	381	92	109,802
Year 2019						
January	106,334	9,264	5,421	448	115	121,582
February	98,163	8,615	4,790	457	110	112,135
March	99,609	8,931	6,638	514	113	115,806
April	87,342	9,171	7,000	445	95	104,053
May	97,486	9,982	9,038	458	89	117,053
June	116,486	10,601	10,114	519	108	137,828
July	141,523	14,569	14,940	746	164	171,942
August	143,822	14,479	15,729	756	169	174,955
Sept	124,789	12,150	11,986	623	140	149,688
October	109,327	11,413	9,492	575	134	130,941
November	101,425	10,324	5,438	578	139	117,904
December	115,721	9,896	5,527	534	151	131,830
Year 2020						
January	117,691	8,629	6,385	440	9	133,154
February	110,750	8,341	6,046	409	8	125,554
March	106,328	9,431	7,363	523	10	123,654
April	93,401	7,602	6,503	413	9	107,929
May	98,828	8,886	7,686	446	9	115,855
June	118,611	13,022	10,958	577	11	143,180
July	145,372	21,929	17,263	858	13	185,433
August	142,029	16,698	14,587	808	7	174,130
Sept	119,668	10,914	10,237	582	5	141,407
October	109,095	11,806	10,118	618	7	131,644
November	92,916	8,546	5,915	440	4	107,821

Values for 2019 and prior years are final. Values for 2020 are preliminary.
The 'Natural Gas Other' category consists of power plants with prime movers of Fuel Cells and Other Prime Movers that consume natural gas.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	66	59	11.6%	0	0	0	0	0	0	66	59
New Jersey	19	18	4.4%	0	0	0	0	0	0	19	18
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	47	41	14.7%	0	0	0	0	0	0	47	41
East North Central	327	399	-18.0%	-1	19	144	167	0	0	183	213
Illinois	20	40	-49.3%	0	0	0	0	0	0	20	40
Indiana	159	165	-3.3%	0	0	0	0	0	0	159	165
Michigan	95	145	-34.7%	-1	19	95	126	0	0	0	0
Ohio	53	49	7.8%	0	0	49	41	0	0	4	8
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	3	3	-11.4%	0	0	0	0	0	0	3	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	3	3	-11.4%	0	0	0	0	0	0	3	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10	17	-41.2%	0	0	0	0	0	0	10	17
Delaware	5	13	-61.2%	0	0	0	0	0	0	5	13
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-78.0%	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	5	4	26.0%	0	0	0	0	0	0	5	4
East South Central	NM	1	NM	0	0	0	0	0	0	NM	1
Alabama	NM	0	NM	0	0	0	0	0	0	NM	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-38.1%	0	0	0	0	0	0	1	1
West South Central	377	395	-4.4%	0	0	161	139	0	0	216	256
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	136	154	-11.4%	0	0	0	0	0	0	136	154
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	241	241	0.0%	0	0	161	139	0	0	80	102
Mountain	33	35	-5.5%	0	0	1	1	0	0	32	34
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	1	-1.8%	0	0	1	1	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	1	0.7%	0	0	0	0	0	0	1	1
Wyoming	31	33	-5.8%	0	0	0	0	0	0	31	33
Pacific Contiguous	120	136	-11.7%	0	0	0	0	0	0	120	136
California	100	109	-8.3%	0	0	0	0	0	0	100	109
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	20	27	-25.4%	0	0	0	0	0	0	20	27
Pacific Noncontiguous	0	1	-100.0%	0	0	0	0	0	0	0	1
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	1	-100.0%	0	0	0	0	0	0	0	1
U.S. Total	938	1,047	-10.4%	-1	19	306	307	0	0	632	721

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

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	578	642	-9.9%	0	0	26	0	0	0	552	642
New Jersey	185	196	-5.6%	0	0	0	0	0	0	185	196
New York	0	2	-100.0%	0	0	0	0	0	0	0	2
Pennsylvania	393	444	-11.5%	0	0	26	0	0	0	367	444
East North Central	3,310	4,301	-23.0%	46	151	1,239	1,978	0	0	2,025	2,172
Illinois	263	241	8.9%	0	0	0	0	0	0	263	241
Indiana	1,642	1,796	-8.6%	0	0	0	0	0	0	1,642	1,796
Michigan	833	1,548	-46.2%	46	151	787	1,397	0	0	0	0
Ohio	572	716	-20.1%	0	0	451	581	0	0	120	135
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	35	46	-23.4%	0	0	0	0	0	0	35	46
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	35	46	-23.4%	0	0	0	0	0	0	35	46
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	182	223	-18.4%	0	0	0	0	0	0	182	223
Delaware	138	183	-24.6%	0	0	0	0	0	0	138	183
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-34.6%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	43	39	10.6%	0	0	0	0	0	0	43	39
East South Central	12	14	-10.1%	0	0	0	0	0	0	12	14
Alabama	NM	2	NM	0	0	0	0	0	0	NM	2
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	11	11	-6.5%	0	0	0	0	0	0	11	11
West South Central	4,006	4,311	-7.1%	0	0	1,439	1,545	0	0	2,567	2,766
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,625	1,698	-4.3%	0	0	0	0	0	0	1,625	1,698
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,381	2,613	-8.9%	0	0	1,439	1,545	0	0	941	1,067
Mountain	372	277	34.2%	0	0	11	8	0	0	361	269
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	11	8	26.7%	0	0	11	8	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	7	16	-55.0%	0	0	0	0	0	0	7	16
Wyoming	354	252	40.2%	0	0	0	0	0	0	354	252
Pacific Contiguous	1,696	1,666	1.8%	0	0	0	0	0	0	1,696	1,666
California	1,422	1,374	3.5%	0	0	0	0	0	0	1,422	1,374
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	274	291	-6.1%	0	0	0	0	0	0	274	291
Pacific Noncontiguous	3	5	-43.7%	0	0	0	0	0	0	3	5
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	3	5	-43.7%	0	0	0	0	0	0	3	5
U.S. Total	10,194	11,484	-11.2%	46	151	2,715	3,531	0	0	7,433	7,801

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	2,035	2,386	-14.7%	0	0	2,035	2,386	0	0	0	0
Connecticut	1,135	1,500	-24.3%	0	0	1,135	1,500	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	899	885	1.6%	0	0	899	885	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	11,007	12,263	-10.2%	0	0	11,007	12,263	0	0	0	0
New Jersey	1,713	1,921	-10.8%	0	0	1,713	1,921	0	0	0	0
New York	3,169	3,885	-18.4%	0	0	3,169	3,885	0	0	0	0
Pennsylvania	6,125	6,457	-5.2%	0	0	6,125	6,457	0	0	0	0
East North Central	13,891	13,219	5.1%	2,475	1,906	11,417	11,313	0	0	0	0
Illinois	8,414	8,269	1.7%	0	0	8,414	8,269	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,059	2,493	22.7%	2,475	1,906	584	587	0	0	0	0
Ohio	1,574	1,583	-0.6%	0	0	1,574	1,583	0	0	0	0
Wisconsin	844	873	-3.3%	0	0	844	873	0	0	0	0
West North Central	2,637	3,871	-31.9%	2,637	3,432	0	440	0	0	0	0
Iowa	0	440	-100.0%	0	0	0	440	0	0	0	0
Kansas	841	684	22.9%	841	684	0	0	0	0	0	0
Minnesota	1,275	1,279	-0.3%	1,275	1,279	0	0	0	0	0	0
Missouri	0	893	-100.0%	0	893	0	0	0	0	0	0
Nebraska	521	576	-9.6%	521	576	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,678	15,865	5.1%	15,382	14,563	1,296	1,303	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	2,196	2,224	-1.2%	2,196	2,224	0	0	0	0	0	0
Georgia	2,755	3,003	-8.3%	2,755	3,003	0	0	0	0	0	0
Maryland	1,296	1,303	-0.5%	0	0	1,296	1,303	0	0	0	0
North Carolina	3,782	3,342	13.2%	3,782	3,342	0	0	0	0	0	0
South Carolina	3,994	3,945	1.2%	3,994	3,945	0	0	0	0	0	0
Virginia	2,656	2,048	29.7%	2,656	2,048	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,232	6,743	-7.6%	6,232	6,743	0	0	0	0	0	0
Alabama	3,340	3,629	-8.0%	3,340	3,629	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	146	512	-71.5%	146	512	0	0	0	0	0	0
Tennessee	2,745	2,602	5.5%	2,745	2,602	0	0	0	0	0	0
West South Central	5,785	5,964	-3.0%	2,385	2,466	3,400	3,497	0	0	0	0
Arkansas	1,263	911	38.7%	1,263	911	0	0	0	0	0	0
Louisiana	1,122	1,556	-27.9%	1,122	1,556	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,400	3,497	-2.8%	0	0	3,400	3,497	0	0	0	0
Mountain	1,916	2,174	-11.9%	1,916	2,174	0	0	0	0	0	0
Arizona	1,916	2,174	-11.9%	1,916	2,174	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	1,579	1,640	-3.7%	1,579	1,640	0	0	0	0	0	0
California	784	801	-2.1%	784	801	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	795	839	-5.3%	795	839	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	61,760	64,125	-3.7%	32,605	32,923	29,154	31,202	0	0	0	0

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	23,140	27,563	-16.0%	0	0	23,140	27,563	0	0	0	0
Connecticut	14,203	15,407	-7.8%	0	0	14,203	15,407	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	2,177	-100.0%	0	0	0	2,177	0	0	0	0
New Hampshire	8,937	9,979	-10.4%	0	0	8,937	9,979	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	129,448	141,092	-8.3%	0	0	129,448	141,092	0	0	0	0
New Jersey	24,638	23,982	2.7%	0	0	24,638	23,982	0	0	0	0
New York	35,206	40,870	-13.9%	0	0	35,206	40,870	0	0	0	0
Pennsylvania	69,605	76,240	-8.7%	0	0	69,605	76,240	0	0	0	0
East North Central	143,998	144,413	-0.3%	21,773	23,495	122,225	120,918	0	0	0	0
Illinois	91,368	90,120	1.4%	0	0	91,368	90,120	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	27,161	29,754	-8.7%	21,773	23,495	5,388	6,259	0	0	0	0
Ohio	16,594	15,406	7.7%	0	0	16,594	15,406	0	0	0	0
Wisconsin	8,875	9,133	-2.8%	0	0	8,875	9,133	0	0	0	0
West North Central	39,292	40,521	-3.0%	36,387	35,741	2,905	4,780	0	0	0	0
Iowa	2,905	4,780	-39.2%	0	0	2,905	4,780	0	0	0	0
Kansas	9,675	8,335	16.1%	9,675	8,335	0	0	0	0	0	0
Minnesota	13,362	12,786	4.5%	13,362	12,786	0	0	0	0	0	0
Missouri	7,743	8,268	-6.3%	7,743	8,268	0	0	0	0	0	0
Nebraska	5,606	6,352	-11.7%	5,606	6,352	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	186,171	186,632	-0.2%	172,436	172,968	13,734	13,664	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	26,806	26,326	1.8%	26,806	26,326	0	0	0	0	0	0
Georgia	29,747	30,559	-2.7%	29,747	30,559	0	0	0	0	0	0
Maryland	13,734	13,664	0.5%	0	0	13,734	13,664	0	0	0	0
North Carolina	38,574	37,987	1.5%	38,574	37,987	0	0	0	0	0	0
South Carolina	49,918	51,345	-2.8%	49,918	51,345	0	0	0	0	0	0
Virginia	27,391	26,751	2.4%	27,391	26,751	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	78,425	82,040	-4.4%	78,425	82,040	0	0	0	0	0	0
Alabama	39,469	39,539	-0.2%	39,469	39,539	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	5,674	10,164	-44.2%	5,674	10,164	0	0	0	0	0	0
Tennessee	33,282	32,336	2.9%	33,282	32,336	0	0	0	0	0	0
West South Central	66,864	62,064	7.7%	29,227	24,555	37,637	37,509	0	0	0	0
Arkansas	13,759	12,188	12.9%	13,759	12,188	0	0	0	0	0	0
Louisiana	15,468	12,368	25.1%	15,468	12,368	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	37,637	37,509	0.3%	0	0	37,637	37,509	0	0	0	0
Mountain	28,739	28,950	-0.7%	28,739	28,950	0	0	0	0	0	0
Arizona	28,739	28,950	-0.7%	28,739	28,950	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	23,971	23,061	3.9%	23,971	23,061	0	0	0	0	0	0
California	15,402	15,055	2.3%	15,402	15,055	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	8,569	8,006	7.0%	8,569	8,006	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	720,048	736,336	-2.2%	390,958	390,810	329,090	345,526	0	0	0	0

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	600	558	7.7%	83	77	508	472	0	0	NM	8
Connecticut	32	30	6.5%	NM	2	30	28	0	0	0	0
Maine	277	254	9.3%	NM	0	268	245	0	0	NM	8
Massachusetts	75	71	6.1%	NM	14	61	57	0	0	0	0
New Hampshire	111	106	4.9%	29	26	82	80	0	0	0	0
Rhode Island	0	0	-26.7%	0	0	0	0	0	0	0	0
Vermont	105	97	8.1%	38	35	67	62	0	0	0	0
Middle Atlantic	2,759	2,782	-0.8%	2,069	2,062	687	714	0	1	NM	5
New Jersey	1	1	-24.0%	0	0	1	1	0	0	0	0
New York	2,490	2,499	-0.3%	2,064	2,058	422	435	0	1	NM	5
Pennsylvania	268	282	-4.8%	5	4	264	278	0	0	0	0
East North Central	430	458	-6.0%	383	404	36	42	0	0	11	11
Illinois	NM	11	NM	NM	3	NM	7	0	0	0	0
Indiana	NM	23	NM	NM	23	0	0	0	0	0	0
Michigan	143	146	-2.5%	132	136	NM	10	0	0	NM	1
Ohio	31	36	-13.4%	NM	24	NM	11	0	0	0	0
Wisconsin	230	242	-5.0%	206	218	NM	14	0	0	11	11
West North Central	1,411	1,076	31.2%	1,383	1,052	NM	15	0	0	6	8
Iowa	69	52	32.2%	68	51	1	1	0	0	0	0
Kansas	2	1	8.7%	0	0	2	1	0	0	0	0
Minnesota	92	71	29.8%	66	49	NM	13	0	0	6	8
Missouri	171	142	20.6%	171	142	0	0	0	0	0	0
Nebraska	118	87	35.6%	118	87	0	0	0	0	0	0
North Dakota	275	207	33.0%	275	207	0	0	0	0	0	0
South Dakota	684	515	32.8%	684	515	0	0	0	0	0	0
South Atlantic	1,333	1,044	27.7%	1,168	895	117	119	2	1	46	30
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	10	NM	NM	10	0	0	0	0	0	0
Georgia	300	211	41.9%	297	209	NM	0	0	0	NM	2
Maryland	68	87	-22.1%	0	0	68	87	0	0	0	0
North Carolina	476	430	10.7%	469	426	NM	4	1	0	NM	0
South Carolina	226	149	52.1%	221	146	NM	3	0	0	0	0
Virginia	113	71	58.3%	107	67	NM	4	0	0	0	0
West Virginia	134	86	56.8%	58	37	32	21	0	0	44	28
East South Central	2,112	2,013	4.9%	2,111	2,013	NM	1	0	0	0	0
Alabama	905	870	4.1%	905	870	0	0	0	0	0	0
Kentucky	410	384	6.8%	410	384	NM	1	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	796	759	4.9%	796	759	0	0	0	0	0	0
West South Central	865	555	55.9%	746	477	118	77	NM	0	0	0
Arkansas	314	210	49.6%	308	205	NM	5	0	0	0	0
Louisiana	110	70	57.5%	0	0	110	70	0	0	0	0
Oklahoma	307	199	54.3%	307	199	0	0	0	0	0	0
Texas	134	76	75.8%	131	73	3	3	NM	0	0	0
Mountain	2,752	2,184	26.0%	2,640	2,098	111	85	1	0	0	0
Arizona	494	429	15.3%	494	429	0	0	0	0	0	0
Colorado	144	104	38.3%	123	90	NM	14	1	0	0	0
Idaho	900	692	30.1%	829	637	71	55	0	0	0	0
Montana	875	669	30.7%	862	659	NM	10	0	0	0	0
Nevada	161	155	4.4%	157	149	NM	5	0	0	0	0
New Mexico	NM	11	NM	NM	11	0	0	0	0	0	0
Utah	77	59	30.9%	76	58	1	1	0	0	0	0
Wyoming	86	66	31.0%	86	66	0	0	0	0	0	0
Pacific Contiguous	9,655	9,420	2.5%	9,545	9,276	110	144	NM	0	0	0
California	1,013	1,640	-38.2%	956	1,542	57	98	NM	0	0	0
Oregon	2,817	2,474	13.9%	2,795	2,455	NM	19	0	0	0	0
Washington	5,825	5,307	9.8%	5,794	5,279	31	27	0	0	0	0
Pacific Noncontiguous	152	129	17.4%	131	113	4	2	NM	10	NM	5
Alaska	143	122	17.5%	131	112	0	0	NM	10	0	0
Hawaii	9	8	16.3%	0	1	4	2	0	0	NM	5
U.S. Total	22,069	20,218	9.2%	20,259	18,467	1,714	1,672	NM	12	81	67

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	7,198	6,949	3.6%	998	962	6,091	5,880	5	5	104	102
Connecticut	386	386	0.1%	25	33	362	353	0	0	0	0
Maine	3,275	3,157	3.8%	NM	3	3,167	3,052	0	0	104	102
Massachusetts	908	880	3.2%	180	170	724	705	5	5	0	0
New Hampshire	1,372	1,318	4.1%	338	328	1,034	991	0	0	0	0
Rhode Island	3	3	-2.9%	0	0	3	3	0	0	0	0
Vermont	1,253	1,205	3.9%	452	429	801	776	0	0	0	0
Middle Atlantic	32,049	31,082	3.1%	23,821	23,035	8,172	7,987	5	6	51	55
New Jersey	13	25	-48.1%	0	0	13	25	0	0	0	0
New York	28,789	27,866	3.3%	23,744	22,946	4,989	4,860	5	6	51	55
Pennsylvania	3,247	3,191	1.8%	77	90	3,170	3,101	0	0	0	0
East North Central	5,066	4,627	9.5%	4,478	4,080	464	434	1	1	123	112
Illinois	127	112	13.0%	48	37	78	74	1	1	0	0
Indiana	241	234	2.8%	241	234	0	0	0	0	0	0
Michigan	1,663	1,508	10.3%	1,538	1,395	115	105	0	0	NM	9
Ohio	378	368	2.6%	257	250	121	118	0	0	0	0
Wisconsin	2,658	2,404	10.5%	2,395	2,164	150	137	0	0	113	103
West North Central	16,445	15,329	7.3%	16,137	15,028	245	212	0	0	63	89
Iowa	796	739	7.7%	788	731	7	8	0	0	0	0
Kansas	30	18	67.2%	0	0	30	18	0	0	0	0
Minnesota	1,037	979	6.0%	766	704	208	186	0	0	63	89
Missouri	2,059	2,058	0.0%	2,059	2,058	0	0	0	0	0	0
Nebraska	1,376	1,244	10.7%	1,376	1,244	0	0	0	0	0	0
North Dakota	3,192	2,949	8.2%	3,192	2,949	0	0	0	0	0	0
South Dakota	7,955	7,343	8.3%	7,955	7,343	0	0	0	0	0	0
South Atlantic	17,603	17,097	3.0%	14,900	13,996	2,140	2,555	17	15	546	531
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	190	192	-1.3%	190	192	0	0	0	0	0	0
Georgia	3,811	3,617	5.4%	3,776	3,591	NM	9	0	0	17	17
Maryland	1,550	1,986	-22.0%	0	0	1,550	1,986	0	0	0	0
North Carolina	6,087	5,636	8.0%	6,013	5,574	53	49	14	13	NM	0
South Carolina	2,894	2,715	6.6%	2,829	2,650	62	63	3	2	0	0
Virginia	1,481	1,394	6.3%	1,411	1,325	70	69	0	0	0	0
West Virginia	1,590	1,557	2.1%	680	665	389	378	0	0	521	514
East South Central	24,539	23,571	4.1%	24,532	23,563	NM	8	0	0	0	0
Alabama	10,873	10,335	5.2%	10,873	10,335	0	0	0	0	0	0
Kentucky	4,186	3,903	7.2%	4,178	3,895	NM	8	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	9,481	9,333	1.6%	9,481	9,333	0	0	0	0	0	0
West South Central	10,409	10,428	-0.2%	9,054	9,034	1,353	1,392	NM	1	0	0
Arkansas	3,894	3,964	-1.8%	3,838	3,918	56	46	0	0	0	0
Louisiana	1,269	1,309	-3.0%	0	0	1,269	1,309	0	0	0	0
Oklahoma	3,624	3,741	-3.1%	3,624	3,741	0	0	0	0	0	0
Texas	1,622	1,413	14.8%	1,593	1,374	28	37	NM	1	0	0
Mountain	32,421	30,744	5.5%	31,098	29,529	1,309	1,202	14	13	0	0
Arizona	5,967	5,774	3.3%	5,967	5,774	0	0	0	0	0	0
Colorado	1,790	1,707	4.9%	1,546	1,487	231	208	14	13	0	0
Idaho	10,508	9,739	7.9%	9,674	8,970	834	769	0	0	0	0
Montana	10,227	9,429	8.5%	10,071	9,283	156	146	0	0	0	0
Nevada	1,840	2,185	-15.8%	1,771	2,124	70	61	0	0	0	0
New Mexico	168	149	12.9%	168	149	0	0	0	0	0	0
Utah	898	824	9.0%	890	814	8	10	0	0	0	0
Wyoming	1,021	936	9.1%	1,011	928	10	8	0	0	0	0
Pacific Contiguous	120,990	124,990	-3.2%	119,195	122,422	1,789	2,555	NM	13	0	0
California	20,548	36,389	-43.5%	19,378	34,369	1,164	2,007	NM	13	0	0
Oregon	30,899	27,763	11.3%	30,640	27,529	259	234	0	0	0	0
Washington	69,543	60,838	14.3%	69,177	60,523	366	314	0	0	0	0
Pacific Noncontiguous	1,758	1,580	11.3%	1,537	1,386	21	20	142	120	59	54
Alaska	1,673	1,496	11.9%	1,531	1,376	0	0	142	120	0	0
Hawaii	85	85	0.7%	5	10	21	20	0	0	59	54
U.S. Total	268,478	266,396	0.8%	245,750	243,034	21,591	22,244	191	175	946	943

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	1,005	961	4.6%	60	62	843	800	13	14	89	85
Connecticut	77	76	0.9%	0	0	76	76	NM	0	NM	0
Maine	434	452	-4.1%	0	0	343	364	3	4	88	84
Massachusetts	219	172	27.2%	15	9	198	157	5	5	NM	0
New Hampshire	138	147	-5.7%	0	10	134	132	4	4	0	0
Rhode Island	48	44	11.2%	0	0	48	43	1	1	0	0
Vermont	89	70	27.3%	45	43	44	27	0	0	0	0
Middle Atlantic	1,555	1,151	35.1%	6	5	1,451	1,052	54	50	44	44
New Jersey	160	142	13.1%	6	5	130	116	23	20	NM	1
New York	808	586	38.1%	0	0	775	552	19	17	14	16
Pennsylvania	587	424	38.4%	0	0	545	385	12	12	29	27
East North Central	4,726	3,095	52.7%	604	403	3,979	2,554	13	12	130	126
Illinois	2,170	1,276	70.1%	12	10	2,157	1,266	NM	1	0	0
Indiana	847	596	42.2%	43	32	797	557	2	2	5	5
Michigan	1,037	702	47.7%	377	216	606	435	4	4	50	46
Ohio	349	242	44.3%	NM	1	312	212	1	1	33	27
Wisconsin	323	280	15.7%	170	144	106	84	NM	4	42	48
West North Central	10,901	8,180	33.3%	3,916	2,749	6,915	5,359	16	14	54	57
Iowa	3,859	2,613	47.7%	2,804	1,830	1,049	777	2	3	3	4
Kansas	2,275	2,012	13.1%	171	174	2,103	1,837	NM	2	0	0
Minnesota	1,486	1,255	18.4%	302	259	1,127	940	7	4	50	53
Missouri	404	259	55.9%	2	3	397	252	5	4	0	0
Nebraska	896	755	18.7%	41	37	854	717	1	2	0	0
North Dakota	1,367	991	38.0%	516	382	850	609	NM	0	1	0
South Dakota	613	293	109.2%	79	65	535	228	0	0	0	0
South Atlantic	3,461	2,795	23.8%	622	390	1,951	1,541	29	33	858	832
Delaware	9	9	-0.1%	NM	0	7	7	0	1	NM	1
District of Columbia	6	6	-1.9%	0	0	NM	1	4	5	0	0
Florida	801	601	33.3%	443	258	197	178	4	4	158	161
Georgia	790	621	27.1%	27	23	422	256	NM	0	340	343
Maryland	128	106	20.5%	NM	1	125	104	2	2	0	0
North Carolina	823	754	9.1%	38	37	673	603	7	12	104	103
South Carolina	319	241	32.3%	6	7	183	129	0	0	130	105
Virginia	391	313	24.9%	107	65	148	120	11	9	125	119
West Virginia	196	144	35.6%	0	0	196	144	0	0	0	0
East South Central	567	619	-8.4%	12	12	90	86	NM	0	465	521
Alabama	296	328	-9.8%	2	2	25	26	0	0	269	300
Kentucky	33	42	-20.0%	10	10	1	1	0	0	23	30
Mississippi	154	155	-0.2%	0	0	31	28	0	0	123	126
Tennessee	84	95	-11.4%	NM	0	33	31	NM	0	50	64
West South Central	12,034	10,130	18.8%	163	138	11,495	9,625	NM	6	374	361
Arkansas	122	93	31.8%	NM	0	39	18	1	1	82	73
Louisiana	200	185	8.1%	NM	0	15	8	0	0	185	177
Oklahoma	2,798	2,477	13.0%	139	118	2,630	2,333	0	0	29	26
Texas	8,913	7,375	20.9%	23	20	8,810	7,266	NM	5	78	84
Mountain	4,959	3,868	28.2%	716	448	4,070	3,335	51	51	122	35
Arizona	409	345	18.4%	44	40	364	304	NM	1	0	0
Colorado	1,391	1,023	36.0%	346	170	1,044	852	2	1	0	0
Idaho	364	306	18.8%	20	15	313	255	2	2	29	34
Montana	374	214	75.1%	28	22	345	191	0	0	1	1
Nevada	733	651	12.6%	12	10	677	595	45	46	0	0
New Mexico	795	748	6.3%	23	21	773	727	NM	0	0	0
Utah	272	209	29.9%	12	8	259	201	0	0	0	0
Wyoming	620	371	67.2%	233	161	296	210	0	0	92	0
Pacific Contiguous	6,444	4,144	55.5%	664	351	5,494	3,524	77	75	209	194
California	4,546	3,222	41.1%	148	87	4,255	3,013	73	72	70	50
Oregon	913	451	102.4%	89	56	775	352	2	2	47	41
Washington	984	471	109.1%	427	207	464	159	1	1	92	103
Pacific Noncontiguous	154	109	40.8%	19	14	118	78	17	17	NM	0
Alaska	21	15	40.3%	12	8	NM	4	3	3	NM	0
Hawaii	133	94	40.9%	8	7	112	73	13	14	0	0
U.S. Total	45,806	35,052	30.7%	6,782	4,572	36,405	27,955	272	271	2,346	2,254

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	10,703	10,059	6.4%	682	740	8,843	8,105	131	145	1,046	1,069
Connecticut	912	826	10.4%	3	3	903	818	6	5	NM	0
Maine	4,288	4,251	0.9%	0	0	3,218	3,147	32	41	1,038	1,063
Massachusetts	2,585	2,224	16.2%	163	112	2,363	2,056	51	50	8	6
New Hampshire	1,399	1,474	-5.1%	21	187	1,343	1,248	35	40	0	0
Rhode Island	568	425	33.6%	0	0	562	418	7	7	0	0
Vermont	951	858	10.8%	496	438	454	418	1	2	0	0
Middle Atlantic	15,259	12,896	18.3%	84	76	14,062	11,712	630	594	483	514
New Jersey	2,209	1,865	18.5%	84	76	1,822	1,512	295	270	9	7
New York	7,481	6,241	19.9%	0	0	7,128	5,880	202	193	151	168
Pennsylvania	5,569	4,791	16.2%	0	0	5,113	4,321	133	131	323	339
East North Central	37,118	32,285	15.0%	5,140	4,125	30,514	26,634	154	162	1,311	1,364
Illinois	15,980	13,166	21.4%	137	116	15,835	13,043	8	7	0	0
Indiana	6,710	6,220	7.9%	515	434	6,117	5,708	20	20	58	58
Michigan	8,383	7,412	13.1%	2,810	2,121	5,028	4,681	42	52	503	558
Ohio	2,867	2,565	11.8%	23	17	2,525	2,264	15	14	304	270
Wisconsin	3,179	2,922	8.8%	1,655	1,437	1,008	939	69	69	446	478
West North Central	93,704	76,473	22.5%	31,385	24,961	61,522	50,689	165	165	632	658
Iowa	30,117	22,957	31.2%	21,557	15,898	8,479	6,967	33	38	48	55
Kansas	21,507	19,231	11.8%	1,693	1,734	19,799	17,481	15	15	0	0
Minnesota	13,873	12,275	13.0%	2,601	2,380	10,628	9,237	63	57	581	601
Missouri	3,393	2,780	22.0%	34	38	3,317	2,698	39	42	2	2
Nebraska	7,956	6,595	20.6%	374	364	7,571	6,219	11	12	0	0
North Dakota	11,906	10,162	17.2%	4,458	3,928	7,443	6,234	NM	0	2	0
South Dakota	4,953	2,472	100.3%	668	619	4,284	1,854	0	0	0	0
South Atlantic	41,410	34,414	20.3%	8,127	5,786	23,677	18,969	379	422	9,226	9,238
Delaware	120	111	8.0%	7	6	100	91	5	5	9	9
District of Columbia	68	58	16.4%	0	0	17	8	51	50	0	0
Florida	9,853	7,708	27.8%	5,754	3,791	2,372	2,174	44	46	1,683	1,698
Georgia	8,884	6,868	29.4%	345	296	4,819	2,771	3	3	3,717	3,798
Maryland	1,385	1,303	6.2%	9	8	1,342	1,216	34	30	0	49
North Carolina	11,048	9,769	13.1%	565	418	9,272	8,126	109	157	1,103	1,069
South Carolina	3,780	2,776	36.2%	80	82	2,251	1,416	0	0	1,449	1,278
Virginia	4,498	4,344	3.6%	1,368	1,185	1,731	1,691	133	131	1,266	1,337
West Virginia	1,773	1,476	20.1%	0	0	1,773	1,476	0	0	0	0
East South Central	6,587	6,575	0.2%	150	144	1,249	1,112	5	4	5,183	5,314
Alabama	3,438	3,438	0.0%	26	22	369	383	0	0	3,043	3,033
Kentucky	380	383	-0.7%	124	122	9	10	0	0	248	251
Mississippi	1,682	1,572	7.0%	0	0	425	312	0	0	1,256	1,260
Tennessee	1,087	1,182	-8.1%	NM	0	446	407	5	4	635	770
West South Central	123,129	111,942	10.0%	1,624	1,659	117,540	105,909	68	76	3,897	4,298
Arkansas	1,176	1,444	-18.6%	NM	1	320	270	22	13	833	1,160
Louisiana	2,023	2,057	-1.6%	NM	1	103	75	0	0	1,918	1,980
Oklahoma	27,106	26,719	1.5%	1,317	1,342	25,484	25,114	0	0	305	263
Texas	92,825	81,722	13.6%	303	314	91,634	80,449	47	63	840	896
Mountain	50,739	45,946	10.4%	6,210	5,483	43,218	39,584	550	526	762	354
Arizona	6,168	5,771	6.9%	696	709	5,458	5,047	14	15	0	0
Colorado	12,798	11,274	13.5%	2,523	2,120	10,245	9,135	28	16	3	3
Idaho	3,632	3,432	5.9%	173	163	3,105	2,916	25	23	330	330
Montana	2,607	2,200	18.5%	233	228	2,355	1,953	0	0	19	18
Nevada	9,227	8,508	8.4%	191	163	8,565	7,882	469	461	2	2
New Mexico	8,153	7,580	7.6%	355	300	7,795	7,277	NM	3	0	0
Utah	3,372	3,204	5.2%	127	106	3,233	3,090	12	8	0	0
Wyoming	4,782	3,978	20.2%	1,912	1,693	2,463	2,285	0	0	407	0
Pacific Contiguous	76,709	71,953	6.6%	7,621	6,480	65,975	62,438	888	858	2,225	2,178
California	57,514	56,036	2.6%	1,974	1,877	53,958	52,648	848	820	734	691
Oregon	10,133	8,047	25.9%	1,360	1,112	8,251	6,455	25	25	497	456
Washington	9,062	7,870	15.1%	4,287	3,490	3,766	3,335	15	14	994	1,032
Pacific Noncontiguous	1,566	1,160	35.0%	205	172	1,177	786	184	201	NM	1
Alaska	189	165	15.0%	98	82	55	49	36	34	NM	1
Hawaii	1,377	996	38.3%	106	90	1,123	738	148	168	0	0
U.S. Total	456,925	403,703	13.2%	61,227	49,624	367,777	325,939	3,155	3,154	24,766	24,986

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	-41	-38	9.3%	0	0	-41	-38	0	0	0	0
Connecticut	-2	-1	42.7%	0	0	-2	-1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-39	-36	8.1%	0	0	-39	-36	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	-90	-80	12.9%	-43	-33	-47	-47	0	0	0	0
New Jersey	-7	0	NM	-7	0	0	0	0	0	0	0
New York	-36	-33	10.9%	-36	-33	0	0	0	0	0	0
Pennsylvania	-47	-47	-0.2%	0	0	-47	-47	0	0	0	0
East North Central	-68	-37	82.4%	-68	-37	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	-68	-37	82.4%	-68	-37	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	-2	-2	-22.2%	-2	-2	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	-2	-2	-22.2%	-2	-2	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-92	-242	-62.0%	-92	-242	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	-2	-73	-97.8%	-2	-73	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	-49	-100	-51.1%	-49	-100	0	0	0	0	0	0
Virginia	-42	-70	-40.2%	-42	-70	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-45	-22	108.8%	-45	-22	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	-45	-22	108.8%	-45	-22	0	0	0	0	0	0
West South Central	-7	-9	-25.6%	-7	-9	0	0	0	0	0	0
Arkansas	1	0	70.0%	1	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-7	-10	-21.6%	-7	-10	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-22	-37	-40.4%	-22	-37	0	0	0	0	0	0
Arizona	-9	-20	-55.2%	-9	-20	0	0	0	0	0	0
Colorado	-13	-17	-22.4%	-13	-17	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	-1	-41	-96.6%	-1	-41	0	0	0	0	0	0
California	-1	-43	-97.9%	-1	-43	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	2	-132.1%	0	2	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-369	-509	-27.4%	-281	-424	-88	-84	0	0	0	0

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	-373	-408	-8.7%	0	0	-373	-408	0	0	0	0
Connecticut	-1	1	-222.7%	0	0	-1	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-372	-409	-9.0%	0	0	-372	-409	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	-945	-906	4.4%	-403	-378	-542	-528	0	0	0	0
New Jersey	-104	-87	19.2%	-104	-87	0	0	0	0	0	0
New York	-299	-291	2.9%	-299	-291	0	0	0	0	0	0
Pennsylvania	-542	-528	2.7%	0	0	-542	-528	0	0	0	0
East North Central	-786	-665	18.2%	-786	-665	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	-786	-665	18.2%	-786	-665	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	-18	340	-105.2%	-18	340	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	-18	340	-105.2%	-18	340	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	-1,995	-2,391	-16.6%	-1,995	-2,391	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	-354	-527	-32.8%	-354	-527	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	-617	-845	-27.0%	-617	-845	0	0	0	0	0	0
Virginia	-1,024	-1,019	0.5%	-1,024	-1,019	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-687	-561	22.6%	-687	-561	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	-687	-561	22.6%	-687	-561	0	0	0	0	0	0
West South Central	-44	-46	-4.7%	-44	-46	0	0	0	0	0	0
Arkansas	65	50	29.1%	65	50	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-109	-97	12.9%	-109	-97	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-59	-178	-66.9%	-59	-178	0	0	0	0	0	0
Arizona	77	8	899.0%	77	8	0	0	0	0	0	0
Colorado	-136	-186	-26.7%	-136	-186	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	-48	83	-157.8%	-48	83	0	0	0	0	0	0
California	-62	76	-181.8%	-62	76	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	14	7	112.7%	14	7	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-4,954	-4,731	4.7%	-4,039	-3,795	-915	-936	0	0	0	0

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	157	161	-2.8%	0	0	142	149	4	4	11	8
Connecticut	48	52	-8.5%	0	0	48	52	0	0	0	0
Maine	26	26	-2.8%	0	0	11	14	4	4	11	8
Massachusetts	79	78	1.2%	0	0	79	78	0	0	0	0
New Hampshire	5	5	0.3%	0	0	5	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	133.4%	0	0	0	0	0	0	0	0
Middle Atlantic	207	187	10.8%	0	0	157	139	45	42	6	6
New Jersey	48	54	-11.0%	0	0	28	36	14	12	6	6
New York	84	87	-3.5%	0	0	62	67	22	20	0	0
Pennsylvania	75	45	64.2%	0	0	66	36	9	9	0	0
East North Central	82	49	69.0%	2	2	5	5	7	8	70	34
Illinois	20	0	NM	0	0	-2	0	0	0	22	0
Indiana	46	32	42.1%	0	0	0	0	2	2	44	30
Michigan	13	12	1.2%	0	0	6	6	5	5	1	1
Ohio	1	1	-5.5%	0	0	0	0	0	0	1	1
Wisconsin	3	4	-16.7%	2	2	0	0	0	0	NM	2
West North Central	24	37	-35.2%	17	16	5	14	2	3	0	5
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	-0.2%	0	0	0	0	0	0	0	0
Minnesota	20	32	-39.0%	13	11	5	14	2	3	0	4
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	5	-12.1%	4	5	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	350	381	-8.2%	0	0	200	213	12	10	138	159
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	237	258	-8.2%	0	0	115	125	0	0	122	133
Georgia	6	7	-12.5%	0	0	0	0	0	0	6	7
Maryland	30	28	7.0%	0	0	30	28	0	0	0	0
North Carolina	29	45	-36.0%	0	0	21	30	0	0	8	15
South Carolina	3	4	-8.2%	0	0	1	1	0	0	3	3
Virginia	46	40	15.3%	0	0	34	30	12	10	0	0
West Virginia	-1	0	220.0%	0	0	-1	0	0	0	0	0
East South Central	6	5	14.8%	5	4	0	0	0	0	NM	1
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	5	4	17.6%	5	4	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	1	NM	0	0	0	0	0	0	NM	1
West South Central	81	106	-23.7%	0	16	7	7	0	0	74	83
Arkansas	0	1	-7.1%	0	0	0	0	0	0	1	1
Louisiana	44	53	-18.0%	0	16	0	0	0	0	44	37
Oklahoma	0	0	-48.0%	0	0	0	0	0	0	0	0
Texas	37	52	-29.4%	0	0	7	7	0	0	30	45
Mountain	52	54	-3.6%	5	4	22	24	0	0	25	26
Arizona	0	0	2.7%	0	0	0	0	0	0	0	0
Colorado	4	5	-21.2%	0	0	0	2	0	0	4	4
Idaho	0	5	-100.0%	0	0	0	0	0	0	0	5
Montana	22	23	-2.8%	0	0	22	23	0	0	0	0
Nevada	1	0	50.6%	1	0	0	0	0	0	0	0
New Mexico	0	0	0.0%	0	0	0	0	0	0	0	0
Utah	19	13	43.1%	4	4	0	0	0	0	15	10
Wyoming	6	7	-16.5%	0	0	0	0	0	0	6	7
Pacific Contiguous	67	69	-3.4%	-1	-1	22	21	0	0	47	50
California	59	61	-4.1%	-1	-1	13	13	0	0	47	50
Oregon	4	4	-11.0%	0	0	4	4	0	0	0	0
Washington	5	4	15.6%	0	0	5	4	0	0	0	0
Pacific Noncontiguous	30	32	-5.4%	14	15	0	0	16	17	0	0
Alaska	0	0	-25.7%	0	0	0	0	0	0	0	0
Hawaii	31	32	-5.5%	14	15	0	0	16	17	0	0
U.S. Total	1,056	1,082	-2.4%	40	56	558	572	86	84	372	371

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	1,729	1,719	0.6%	0	-1	1,573	1,558	39	51	117	111
Connecticut	544	532	2.2%	0	0	544	532	0	0	0	0
Maine	299	310	-3.6%	0	0	142	147	39	51	117	113
Massachusetts	836	828	0.9%	0	0	836	830	0	0	0	-1
New Hampshire	51	50	1.6%	0	0	51	50	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	-1	-50.4%	0	-1	0	0	0	0	0	0
Middle Atlantic	2,279	2,231	2.1%	0	0	1,768	1,710	476	468	35	54
New Jersey	539	561	-4.0%	0	0	353	360	151	147	35	54
New York	927	873	6.1%	0	0	698	653	228	220	0	0
Pennsylvania	814	797	2.1%	0	0	717	697	97	100	0	0
East North Central	852	721	18.1%	18	17	62	67	72	83	700	553
Illinois	226	217	4.2%	0	0	-13	-9	0	0	239	226
Indiana	445	298	49.3%	0	0	0	0	22	22	423	276
Michigan	137	160	-14.4%	0	0	75	79	50	62	12	19
Ohio	8	7	16.7%	-1	-2	0	-3	0	0	9	12
Wisconsin	35	38	-8.9%	18	19	0	0	0	0	16	19
West North Central	352	381	-7.5%	175	171	114	132	34	28	29	49
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	5	5	-0.5%	0	0	0	0	0	0	5	5
Minnesota	302	330	-8.7%	129	126	114	132	34	28	24	44
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	46	46	0.6%	46	46	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,987	4,311	-7.5%	-2	-2	2,359	2,472	149	148	1,482	1,693
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	2,647	2,890	-8.4%	-2	-2	1,453	1,515	0	0	1,196	1,376
Georgia	75	87	-14.2%	0	0	0	0	0	0	75	87
Maryland	288	301	-4.3%	0	0	288	301	0	0	0	0
North Carolina	445	491	-9.3%	0	0	267	295	0	0	178	196
South Carolina	39	41	-3.6%	0	0	7	7	0	0	33	34
Virginia	508	507	0.2%	0	0	358	359	149	148	0	0
West Virginia	-15	-6	161.4%	0	0	-15	-6	0	0	0	0
East South Central	69	49	40.0%	58	40	0	0	0	0	11	9
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	58	40	45.2%	58	40	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	11	9	16.7%	0	0	0	0	0	0	11	9
West South Central	785	1,009	-22.3%	-1	71	56	77	-1	0	729	862
Arkansas	4	4	4.4%	0	0	0	0	-1	0	5	4
Louisiana	361	528	-31.7%	0	70	0	0	0	0	361	458
Oklahoma	6	7	-12.3%	0	1	0	0	0	0	6	6
Texas	414	471	-12.1%	-1	0	56	77	0	0	358	394
Mountain	514	633	-18.8%	69	63	216	278	0	0	228	291
Arizona	-2	-4	-46.6%	0	0	-2	-4	0	0	0	0
Colorado	55	55	0.9%	0	-1	13	16	0	0	42	40
Idaho	52	60	-13.2%	0	0	0	0	0	0	52	60
Montana	205	266	-22.8%	0	0	205	266	0	0	0	0
Nevada	23	20	13.7%	23	20	0	0	0	0	0	0
New Mexico	-1	-1	-6.3%	-1	-1	0	0	0	0	0	0
Utah	109	168	-35.1%	47	45	0	0	0	0	62	124
Wyoming	71	68	5.2%	0	0	0	0	0	0	71	68
Pacific Contiguous	750	792	-5.3%	-11	-16	253	245	-1	0	509	563
California	648	701	-7.6%	-10	-15	150	153	-1	0	509	563
Oregon	40	32	25.4%	0	0	40	32	0	0	0	0
Washington	63	59	5.3%	0	0	63	60	0	0	0	0
Pacific Noncontiguous	287	355	-19.3%	105	151	0	0	181	205	0	0
Alaska	-3	-4	-27.6%	-3	-4	0	0	0	0	0	0
Hawaii	289	359	-19.4%	108	154	0	0	181	205	0	0
U.S. Total	11,603	12,201	-4.9%	411	494	6,401	6,540	951	983	3,840	4,185

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	425	384	10.7%	28	23	393	358	4	3	NM	0
Connecticut	NM	1	NM	0	0	NM	1	0	0	0	0
Maine	263	258	2.1%	0	0	263	258	0	0	0	0
Massachusetts	32	22	45.2%	8	5	20	14	3	3	NM	0
New Hampshire	60	44	36.7%	0	0	60	44	0	0	0	0
Rhode Island	24	21	13.3%	0	0	23	20	1	1	0	0
Vermont	45	38	17.7%	20	18	25	20	0	0	0	0
Middle Atlantic	1,012	652	55.3%	0	0	1,011	651	NM	0	NM	0
New Jersey	2	2	14.0%	0	0	2	2	0	0	0	0
New York	577	372	55.3%	0	0	576	371	NM	0	NM	0
Pennsylvania	433	278	55.6%	0	0	433	278	0	0	0	0
East North Central	4,250	2,652	60.2%	514	325	3,719	2,317	NM	3	12	7
Illinois	2,128	1,242	71.4%	NM	1	2,126	1,240	NM	0	0	0
Indiana	782	545	43.5%	0	0	782	545	0	0	0	0
Michigan	847	526	61.2%	371	213	476	313	0	0	0	0
Ohio	280	178	57.4%	NM	1	266	170	0	0	NM	6
Wisconsin	213	162	31.2%	140	110	70	49	NM	2	1	1
West North Central	10,647	7,981	33.4%	3,894	2,726	6,748	5,251	NM	4	0	0
Iowa	3,843	2,597	48.0%	2,803	1,829	1,039	767	1	0	0	0
Kansas	2,266	2,007	12.9%	171	174	2,094	1,831	NM	2	0	0
Minnesota	1,284	1,102	16.5%	290	245	991	855	NM	2	0	0
Missouri	387	245	58.4%	0	0	387	245	0	0	0	0
Nebraska	887	747	18.8%	35	31	851	716	0	0	0	0
North Dakota	1,367	991	37.9%	516	382	850	609	NM	0	0	0
South Dakota	613	293	109.2%	79	65	534	228	0	0	0	0
South Atlantic	292	239	22.2%	0	0	292	239	0	1	0	0
Delaware	0	1	-22.1%	0	0	0	0	0	1	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	57	44	30.9%	0	0	57	44	0	0	0	0
North Carolina	39	51	-22.9%	0	0	39	51	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	196	144	35.6%	0	0	196	144	0	0	0	0
East South Central	NM	3	NM	0	0	NM	3	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	3	NM	0	0	NM	3	0	0	0	0
West South Central	10,981	9,436	16.4%	158	134	10,821	9,296	NM	4	NM	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,764	2,446	13.0%	135	114	2,628	2,332	0	0	0	0
Texas	8,217	6,990	17.6%	22	20	8,193	6,965	NM	4	NM	1
Mountain	3,389	2,529	34.0%	624	367	2,673	2,161	NM	0	92	0
Arizona	46	48	-5.5%	0	0	46	48	0	0	0	0
Colorado	1,284	940	36.7%	345	170	939	769	0	0	0	0
Idaho	293	222	31.8%	19	14	274	208	0	0	0	0
Montana	371	211	76.0%	28	22	343	189	0	0	0	0
Nevada	31	29	8.4%	0	0	31	29	0	0	0	0
New Mexico	679	661	2.7%	0	0	679	661	NM	0	0	0
Utah	73	56	31.4%	0	0	73	56	0	0	0	0
Wyoming	612	363	68.6%	233	161	288	201	0	0	92	0
Pacific Contiguous	2,774	1,109	150.1%	531	253	2,243	856	1	1	0	0
California	1,167	467	149.8%	45	28	1,120	439	1	1	0	0
Oregon	752	317	137.3%	83	51	669	266	0	0	0	0
Washington	855	325	163.0%	402	174	453	151	0	0	0	0
Pacific Noncontiguous	72	56	27.9%	12	8	61	49	0	0	0	0
Alaska	18	12	49.7%	12	8	NM	4	0	0	0	0
Hawaii	54	44	22.1%	0	0	54	44	0	0	0	0
U.S. Total	33,848	25,042	35.2%	5,760	3,836	27,967	21,181	15	17	106	8

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	3,732	3,300	13.1%	237	195	3,463	3,075	28	28	NM	2
Connecticut	13	11	20.5%	0	0	13	11	0	0	0	0
Maine	2,357	2,204	7.0%	0	0	2,357	2,204	0	0	0	0
Massachusetts	242	187	29.5%	59	44	158	120	22	21	NM	2
New Hampshire	521	378	37.8%	0	0	521	378	0	0	0	0
Rhode Island	212	185	14.6%	0	0	205	178	7	7	0	0
Vermont	386	336	15.1%	178	151	208	184	0	0	0	0
Middle Atlantic	8,393	6,873	22.1%	0	0	8,387	6,869	NM	3	NM	1
New Jersey	22	20	14.0%	0	0	22	20	0	0	0	0
New York	4,705	3,967	18.6%	0	0	4,699	3,964	NM	3	NM	1
Pennsylvania	3,666	2,886	27.0%	0	0	3,666	2,886	0	0	0	0
East North Central	31,422	26,828	17.1%	4,083	3,183	27,219	23,549	31	26	89	70
Illinois	15,482	12,730	21.6%	13	11	15,465	12,716	NM	4	0	0
Indiana	5,879	5,487	7.1%	0	0	5,879	5,487	0	0	0	0
Michigan	6,224	5,139	21.1%	2,719	2,038	3,505	3,102	0	0	0	0
Ohio	1,908	1,804	5.8%	15	10	1,808	1,728	3	3	83	64
Wisconsin	1,929	1,667	15.7%	1,337	1,124	562	517	24	19	6	7
West North Central	90,324	73,588	22.7%	31,111	24,682	59,166	48,865	47	41	0	0
Iowa	29,905	22,743	31.5%	21,538	15,878	8,363	6,862	4	4	0	0
Kansas	21,393	19,162	11.6%	1,691	1,732	19,687	17,414	15	15	0	0
Minnesota	11,154	9,990	11.6%	2,458	2,231	8,671	7,737	25	22	0	0
Missouri	3,190	2,572	24.0%	0	0	3,190	2,572	0	0	0	0
Nebraska	7,828	6,487	20.7%	298	294	7,529	6,193	0	0	0	0
North Dakota	11,904	10,162	17.1%	4,458	3,928	7,443	6,234	NM	0	0	0
South Dakota	4,951	2,471	100.4%	668	619	4,283	1,852	0	0	0	0
South Atlantic	2,771	2,421	14.4%	0	0	2,767	2,417	5	5	0	0
Delaware	5	5	-4.5%	0	0	0	0	5	5	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	503	475	5.9%	0	0	503	475	0	0	0	0
North Carolina	491	466	5.4%	0	0	491	466	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	1,773	1,476	20.1%	0	0	1,773	1,476	0	0	0	0
East South Central	54	35	55.6%	0	0	54	35	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	54	35	55.6%	0	0	54	35	0	0	0	0
West South Central	110,981	102,712	8.1%	1,482	1,520	109,449	101,134	42	49	NM	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	26,716	26,382	1.3%	1,251	1,286	25,465	25,096	0	0	0	0
Texas	84,265	76,330	10.4%	232	235	83,984	76,038	42	49	NM	8
Mountain	28,976	26,018	11.4%	4,818	4,185	23,745	21,826	NM	4	409	3
Arizona	480	506	-5.2%	0	0	480	506	0	0	0	0
Colorado	11,223	9,963	12.6%	2,514	2,115	8,705	7,844	NM	1	3	3
Idaho	2,561	2,330	9.9%	159	149	2,402	2,182	0	0	0	0
Montana	2,559	2,153	18.8%	233	228	2,325	1,925	0	0	0	0
Nevada	289	301	-4.1%	0	0	289	301	0	0	0	0
New Mexico	6,503	6,203	4.8%	0	0	6,501	6,201	NM	3	0	0
Utah	738	758	-2.6%	0	0	738	758	0	0	0	0
Wyoming	4,623	3,803	21.6%	1,912	1,693	2,305	2,110	0	0	407	0
Pacific Contiguous	28,129	26,023	8.1%	6,081	5,014	22,038	20,999	5	5	5	5
California	12,413	13,255	-6.4%	761	753	11,643	12,492	5	5	5	5
Oregon	8,067	6,343	27.2%	1,297	1,051	6,771	5,292	0	0	0	0
Washington	7,649	6,424	19.1%	4,024	3,209	3,625	3,215	0	0	0	0
Pacific Noncontiguous	626	613	2.1%	98	82	527	532	0	0	0	0
Alaska	153	130	17.6%	98	82	55	49	0	0	0	0
Hawaii	473	483	-2.1%	0	0	473	483	0	0	0	0
U.S. Total	305,409	268,411	13.8%	47,911	38,860	256,814	229,300	167	162	516	89

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	434	490	-11.6%	23	32	314	364	9	10	88	84
Connecticut	62	68	-8.3%	0	0	62	68	0	0	0	0
Maine	165	194	-14.9%	0	0	74	106	3	4	88	84
Massachusetts	86	84	1.7%	0	0	84	82	2	2	0	0
New Hampshire	78	103	-23.9%	0	10	74	88	4	4	0	0
Rhode Island	9	19	-52.8%	0	0	9	19	0	0	0	0
Vermont	34	23	47.2%	23	22	12	1	0	0	0	0
Middle Atlantic	352	380	-7.3%	0	0	268	298	42	39	42	43
New Jersey	54	63	-14.7%	0	0	41	52	13	11	0	0
New York	160	177	-9.4%	0	0	128	144	18	17	14	16
Pennsylvania	138	140	-1.4%	0	0	98	102	11	11	29	27
East North Central	405	411	-1.6%	57	67	222	216	8	9	118	119
Illinois	35	31	13.5%	10	8	25	23	0	0	0	0
Indiana	37	37	-0.5%	26	26	4	4	2	2	5	5
Michigan	180	171	5.1%	0	0	125	120	4	4	50	46
Ohio	57	57	-0.5%	0	0	35	36	1	1	21	21
Wisconsin	96	115	-16.5%	21	33	32	32	2	2	41	48
West North Central	126	138	-8.8%	20	22	41	49	11	9	54	57
Iowa	14	15	-6.5%	NM	0	9	9	1	3	3	4
Kansas	5	5	-4.0%	0	0	5	5	0	0	0	0
Minnesota	89	100	-10.4%	12	14	24	31	4	2	50	53
Missouri	10	10	-3.7%	NM	3	3	4	5	4	0	0
Nebraska	6	7	-10.3%	6	6	0	0	1	2	0	0
North Dakota	1	0	NM	0	0	0	0	0	0	1	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,573	1,460	7.7%	106	60	589	546	20	23	858	831
Delaware	5	5	-4.6%	0	0	4	4	0	0	NM	1
District of Columbia	4	5	-11.6%	0	0	0	0	4	5	0	0
Florida	347	315	10.1%	53	7	134	144	3	3	158	161
Georgia	512	466	9.8%	0	0	172	123	0	0	340	343
Maryland	30	29	6.0%	0	0	29	28	1	1	0	0
North Carolina	207	222	-6.7%	0	0	103	115	0	5	104	103
South Carolina	194	167	16.1%	6	7	59	56	0	0	130	105
Virginia	273	251	8.9%	48	46	89	77	11	9	125	119
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	483	540	-10.5%	7	7	11	12	0	0	465	520
Alabama	272	304	-10.3%	0	0	3	3	0	0	269	300
Kentucky	30	39	-21.7%	7	7	0	1	0	0	23	30
Mississippi	124	127	-2.7%	0	0	NM	1	0	0	123	126
Tennessee	56	70	-19.6%	0	0	6	6	0	0	50	63
West South Central	422	405	4.2%	0	0	49	45	0	1	373	360
Arkansas	91	79	14.6%	0	0	9	5	0	1	82	73
Louisiana	192	185	3.7%	0	0	7	8	0	0	185	177
Oklahoma	31	28	10.9%	0	0	NM	2	0	0	29	26
Texas	109	113	-3.7%	0	0	32	30	0	0	77	83
Mountain	86	93	-7.0%	NM	1	52	54	3	3	30	35
Arizona	20	19	4.9%	0	0	20	19	0	0	0	0
Colorado	13	14	-3.8%	0	0	13	14	0	0	0	0
Idaho	40	48	-15.9%	NM	1	8	10	2	2	29	34
Montana	1	1	28.3%	0	0	0	0	0	0	1	1
Nevada	5	4	2.7%	0	0	5	4	0	0	0	0
New Mexico	2	2	4.1%	0	0	2	2	0	0	0	0
Utah	6	5	2.6%	0	0	5	5	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	673	723	-6.8%	35	40	369	425	65	66	204	191
California	465	494	-5.8%	6	2	333	382	62	63	65	47
Oregon	83	86	-3.8%	5	5	28	38	2	2	47	41
Washington	126	143	-12.1%	24	33	8	6	1	1	92	103
Pacific Noncontiguous	27	23	19.6%	2	2	9	4	17	17	NM	0
Alaska	3	3	3.3%	0	0	0	0	3	3	NM	0
Hawaii	24	20	22.1%	2	2	9	4	13	14	0	0
U.S. Total	4,581	4,662	-1.7%	251	232	1,925	2,013	174	177	2,232	2,241

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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 November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	4,980	5,304	-6.1%	272	436	3,579	3,698	91	107	1,038	1,063
Connecticut	687	683	0.6%	0	0	687	683	0	0	0	0
Maine	1,915	2,040	-6.1%	0	0	845	936	32	41	1,038	1,063
Massachusetts	932	916	1.8%	0	0	909	892	23	23	0	0
New Hampshire	877	1,096	-19.9%	21	187	822	869	35	40	0	0
Rhode Island	192	188	2.2%	0	0	192	188	0	0	0	0
Vermont	377	381	-1.0%	251	249	124	130	1	2	0	0
Middle Atlantic	4,217	4,327	-2.5%	0	0	3,312	3,395	449	441	456	492
New Jersey	689	728	-5.4%	0	0	552	595	137	133	0	0
New York	1,800	1,774	1.5%	0	0	1,471	1,432	187	181	142	161
Pennsylvania	1,728	1,825	-5.3%	0	0	1,289	1,367	125	127	314	331
East North Central	4,633	4,779	-3.1%	728	718	2,576	2,646	109	124	1,220	1,292
Illinois	418	376	11.0%	123	103	295	273	0	0	0	0
Indiana	421	423	-0.6%	301	302	44	45	18	18	58	58
Michigan	2,004	2,135	-6.1%	0	0	1,460	1,526	41	51	503	558
Ohio	626	625	0.1%	0	0	399	413	7	7	219	204
Wisconsin	1,165	1,220	-4.5%	305	313	378	388	43	48	440	471
West North Central	1,503	1,530	-1.8%	242	252	511	497	117	122	632	658
Iowa	189	199	-5.2%	10	12	102	98	29	34	48	55
Kansas	58	58	0.5%	0	0	58	58	0	0	0	0
Minnesota	1,070	1,083	-1.1%	140	146	311	301	39	35	581	601
Missouri	104	112	-6.9%	23	28	40	41	38	41	2	2
Nebraska	79	78	2.4%	68	66	0	0	11	12	0	0
North Dakota	2	0	795.5%	0	0	0	0	0	0	2	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	17,016	17,155	-0.8%	1,307	1,635	6,258	6,005	232	284	9,219	9,231
Delaware	55	56	-2.4%	0	0	46	47	0	0	9	9
District of Columbia	51	50	1.4%	0	0	0	0	51	50	0	0
Florida	3,815	4,057	-6.0%	468	614	1,632	1,712	35	37	1,680	1,695
Georgia	5,308	4,869	9.0%	0	0	1,590	1,071	0	0	3,717	3,798
Maryland	307	361	-15.0%	0	0	292	299	15	14	0	49
North Carolina	2,213	2,323	-4.7%	0	0	1,111	1,201	0	53	1,103	1,069
South Carolina	2,098	1,985	5.7%	71	78	583	632	0	0	1,445	1,275
Virginia	3,169	3,453	-8.2%	768	943	1,004	1,043	131	130	1,266	1,337
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	5,388	5,517	-2.3%	82	81	130	128	0	0	5,177	5,308
Alabama	3,081	3,070	0.4%	0	0	38	37	0	0	3,043	3,033
Kentucky	336	340	-1.0%	82	81	7	8	0	0	248	251
Mississippi	1,268	1,272	-0.2%	0	0	12	12	0	0	1,256	1,260
Tennessee	702	835	-16.0%	0	0	73	71	0	0	629	764
West South Central	4,509	4,920	-8.4%	53	72	561	542	4	16	3,890	4,289
Arkansas	927	1,245	-25.5%	0	0	91	80	4	5	833	1,160
Louisiana	1,999	2,055	-2.7%	0	0	81	75	0	0	1,918	1,980
Oklahoma	324	281	15.3%	0	0	19	18	0	0	305	263
Texas	1,258	1,339	-6.0%	53	72	371	369	0	11	833	887
Mountain	985	986	-0.1%	14	14	588	594	37	31	346	347
Arizona	205	209	-1.9%	0	0	205	209	0	0	0	0
Colorado	152	147	3.0%	0	0	152	147	0	0	0	0
Idaho	462	476	-2.9%	14	14	97	110	25	23	326	329
Montana	19	18	6.3%	0	0	0	0	0	0	19	18
Nevada	55	50	11.6%	0	0	55	50	0	0	0	0
New Mexico	20	21	-1.8%	0	0	20	21	0	0	0	0
Utah	71	65	8.7%	0	0	59	57	12	8	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	7,700	7,699	0.0%	387	389	4,431	4,468	722	706	2,160	2,135
California	5,415	5,413	0.0%	66	53	3,998	4,045	682	668	669	647
Oregon	913	882	3.6%	58	56	334	346	25	25	497	456
Washington	1,372	1,404	-2.3%	263	281	100	78	15	14	994	1,032
Pacific Noncontiguous	275	304	-9.6%	26	55	64	47	184	201	NM	1
Alaska	36	34	4.8%	0	0	0	0	36	34	NM	1
Hawaii	238	269	-11.4%	26	55	64	47	148	168	0	0
U.S. Total	51,204	52,519	-2.5%	3,111	3,651	22,011	22,020	1,944	2,032	24,137	24,815

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	411	336	22.3%	12	8	357	286	41	42	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	8	6	19.4%	0	0	8	6	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	366	302	21.5%	0	0	325	259	41	42	0	0
New Mexico	5	7	-18.8%	0	0	5	7	0	0	0	0
Utah	31	21	48.7%	12	8	19	13	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,058	648	63.3%	66	32	992	616	0	0	0	0
California	1,044	636	64.1%	66	32	979	604	0	0	0	0
Oregon	14	12	19.7%	0	0	14	12	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	NM	0	--	0	0	NM	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	0	--	0	0	NM	0	0	0	0	0
U.S. Total	1,487	984	51.2%	78	40	1,368	901	41	42	0	0

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

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	4,214	4,001	5.3%	127	106	3,682	3,496	405	399	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	80	88	-9.1%	0	0	80	88	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	3,764	3,570	5.4%	0	0	3,359	3,171	405	399	0	0
New Mexico	47	57	-18.1%	0	0	47	57	0	0	0	0
Utah	323	286	13.2%	127	106	196	180	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	11,033	10,289	7.2%	670	617	10,363	9,672	0	0	0	0
California	10,890	10,118	7.6%	670	617	10,220	9,501	0	0	0	0
Oregon	143	171	-16.2%	0	0	143	171	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	190	0	--	0	0	190	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	190	0	--	0	0	190	0	0	0	0	0
U.S. Total	15,437	14,290	8.0%	797	723	14,235	13,167	405	399	0	0

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	355	260	36.6%	146	86	208	173	9	7	136	78	NM	94	NM	1	110	94	NM	8	NM	0	8	7	91	73
Connecticut	57	41	36.9%	14	8	43	34	0	0	13	7	NM	13	NM	0	16	13	NM	2	NM	0	2	2	24	19
Maine	10	4	123.1%	5	0	5	4	0	0	5	0	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Massachusetts	228	177	29.3%	101	66	127	111	7	4	94	61	NM	67	NM	0	73	67	NM	5	NM	0	5	5	49	39
New Hampshire	8	7	18.7%	0	0	8	7	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	5	4
Rhode Island	34	15	128.3%	16	3	18	11	0	0	16	3	13	8	0	0	13	8	0	0	0	0	0	0	5	3
Vermont	18	16	15.9%	10	9	8	7	2	3	8	6	3	3	0	0	3	3	0	0	0	0	0	0	5	4
Middle Atlantic	500	373	33.9%	191	119	309	254	6	5	171	103	150	120	12	10	138	110	18	16	2	1	16	14	155	130
New Jersey	257	205	25.0%	104	76	153	129	6	5	87	62	80	69	11	9	69	60	NM	11	NM	1	12	10	72	59
New York	193	135	43.5%	71	37	122	97	0	0	70	36	NM	42	NM	1	58	41	NM	1	NM	0	1	1	64	55
Pennsylvania	50	33	50.6%	16	5	35	28	0	0	14	5	NM	9	NM	0	11	9	NM	4	NM	1	4	3	20	15
East North Central	143	75	90.8%	72	32	71	43	33	10	38	21	NM	23	NM	1	37	22	3	3	0	0	3	3	31	18
Illinois	41	17	139.6%	7	3	34	14	0	0	7	3	NM	8	NM	0	20	8	0	0	0	0	0	0	14	6
Indiana	39	22	75.6%	29	15	10	8	17	6	12	8	NM	4	NM	0	5	4	0	0	0	0	0	0	5	3
Michigan	17	11	61.8%	10	5	7	5	6	3	4	2	NM	2	NM	0	3	2	0	NM	0	0	0	NM	4	3
Ohio	25	18	41.0%	12	7	13	11	NM	0	11	6	NM	6	NM	0	7	6	1	1	0	0	1	1	5	3
Wisconsin	22	8	179.2%	14	2	8	6	10	0	5	2	NM	2	NM	0	3	2	1	1	0	0	1	1	3	3
West North Central	175	100	75.2%	128	60	48	40	2	1	126	59	21	18	0	0	21	18	2	2	0	0	2	2	25	20
Iowa	14	11	31.6%	2	1	12	10	NM	0	NM	0	7	6	0	0	7	6	0	0	0	0	0	0	4	4
Kansas	7	3	123.8%	4	0	3	3	NM	0	4	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Minnesota	120	60	102.0%	113	53	7	6	NM	0	113	53	2	2	0	0	2	2	1	1	0	0	1	1	5	3
Missouri	30	24	22.9%	7	5	23	20	NM	1	6	4	10	9	0	0	10	9	0	0	0	0	0	0	13	10
Nebraska	4	2	70.7%	3	1	1	1	NM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
North Dakota	0	0	27.4%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,864	1,293	44.1%	1,596	1,096	268	197	516	330	1,070	757	67	60	9	9	57	51	NM	23	NM	0	24	23	187	124
Delaware	12	11	4.1%	4	4	8	8	NM	0	4	3	2	2	0	0	2	2	1	0	0	0	1	0	5	5
District of Columbia	NM	7	NM	NM	1	8	6	0	0	NM	1	4	3	0	0	4	3	0	0	0	0	0	0	4	3
Florida	548	343	59.7%	454	286	94	57	390	251	63	34	NM	11	NM	1	13	10	NM	1	NM	0	1	1	80	46
Georgia	NM	176	NM	278	155	NM	NM	27	23	250	133	NM	3	NM	0	4	3	NM	NM	0	0	NM	NM	NM	NM
Maryland	107	86	25.2%	41	34	67	52	NM	1	39	32	17	17	1	1	16	16	2	2	0	0	2	2	49	34
North Carolina	602	501	20.1%	576	481	26	20	38	37	531	437	16	15	7	7	9	8	1	0	0	0	1	0	16	11
South Carolina	151	96	56.9%	125	74	26	22	NM	0	124	73	5	5	0	0	5	5	NM	2	NM	0	3	2	18	15
Virginia	134	72	86.2%	117	62	16	10	59	18	59	43	NM	3	NM	0	5	3	0	0	0	0	0	0	11	7
West Virginia	1	1	17.8%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	90	87	3.4%	78	76	12	11	5	4	73	71	NM	7	NM	0	7	7	1	1	0	0	0	0	4	4
Alabama	NM	25	NM	23	24	NM	NM	2	2	22	23	NM	NM	0	0	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	6	6	13.3%	3	3	3	3	3	3	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Mississippi	31	28	11.1%	30	27	1	1	0	0	30	27	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	0
Tennessee	28	28	0.2%	22	22	6	6	NM	0	21	21	NM	5	NM	0	4	4	NM	NM	0	0	NM	NM	2	2
West South Central	779	384	102.8%	631	289	148	95	5	4	624	284	26	20	1	1	25	19	2	0	0	0	2	0	122	76
Arkansas	38	16	132.5%	32	14	6	3	NM	0	31	13	2	2	1	1	1	1	2	0	0	0	2	0	3	2
Louisiana	26	17	53.7%	8	0	18	17	NM	0	8	0	1	1	0	0	1	1	0	0	0	0	0	0	17	16
Oklahoma	6	5	27.3%	4	3	2	1	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Texas	709	346	104.9%	587	272	122	74	NM	0	586	271	NM	17	NM	0	21	17	NM	0	0	0	NM	0	100	57
Mountain	1,436	1,208	18.9%	1,033	882	403	326	79	71	947	805	107	95	7	6	100	89	NM	5	NM	0	5	5	298	231
Arizona	520	429	21.2%	307	253	212	176	44	40	263	212	NM	55	NM	1	61	54	1	1	0	0	1	1	150	121
Colorado	145	110	31.5%	94	70	51	40	NM	0	91	68	18	16	2	1	16	15	0	0	0	0	0	0	35	26
Idaho	29	34	-14.9%	24	30	5	4	0	0	23	30	0	0	0	0	0	0	NM	0	NM	0	0	0	4	3
Montana	3	3	11.8%	1	2	2	1	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Nevada	391	362	8.2%	328	313	64	49	12	10	312	299	12	12	4	4	8	8	3	3	0	0	3	3	53	38
New Mexico	138	102	35.2%	109	79	29	23	23	21	87	58	7	7	0	0	7	7	0	0	0	0	0	0	22	17
Utah	201	159	26.1%	162	127	39	32	0	0	162	127	7	6	0	0	7	6	1	1	0	0	1	1	31	25
Wyoming	9	9	5.7%	9	8	1	1	0	0	9	8	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Pacific Contiguous	3,030	2,561	18.3%	1,815	1,551	1,215	1,010	33	26	1,767	1,515	295	251	11	8	284	243	170	147	5	2	165	144	766	623
California	2,944	2,506	17.5%	1,748	1,513	1,196	993	32	26	1,700	1,476	290	247	11	8	279	238	169	146	5	2	165	144	753	611
Oregon	75	46	63.3%	64	36	10	9	NM	0	64	36	4	4	0	0	4	4	1	1	0	0	1	1	6	5
Washington	12	10	22.1%	3	2	9	7	NM	0	3	2	1	1	0	0	1	1	0	0	0	0	0	0	8	6
Pacific Noncontiguous	123	109	12.8%	36	30	87	79	6	5	30	25	33	30	0	0	33	30	0	0	0	0	0	0	54	49
Alaska	0	0	48.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	123	109	12.8%	36	30	87	79	6	5	30	25	33	30	0	0	33	30	0	0	0	0	0	0	54	49
U.S. Total	8,496	6,450	31.7%	5,726	4,223	2,770	2,228	693	464	4,982	3,718	854	719	42	36	812	683	235	204	8	5	226	198	1,732	1,346

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	5,733	4,541	26.2%	1,991	1,455	3,742	3,086	173	109	1,801	1,331	2,031	1,652	12	10	2,019	1,642	161	126	5	4	156	122	1,566	1,322
Connecticut	915	702	30.3%	212	132	703	570	3	3	203	124	267	214	6	5	261	209	40	28	NM	0	39	28	402	333
Maine	101	79	27.6%	16	7	85	72	0	0	16	7	30	30	0	0	30	30	0	0	0	0	0	0	54	42
Massachusetts	3,769	3,133	20.3%	1,412	1,122	2,357	2,011	104	68	1,296	1,044	1,414	1,205	6	6	1,408	1,199	110	89	5	4	106	85	844	727
New Hampshire	148	123	21.0%	0	0	148	123	0	0	0	0	50	39	0	0	50	39	9	7	0	0	9	7	90	77
Rhode Island	445	217	104.5%	164	52	281	165	0	0	164	52	206	111	0	0	206	111	0	0	0	0	0	0	74	54
Vermont	355	287	23.6%	187	142	168	146	66	38	121	104	64	54	0	0	64	54	2	2	0	0	2	2	102	89
Middle Atlantic	7,785	5,992	29.9%	2,649	1,697	5,136	4,296	84	76	2,364	1,449	2,541	2,017	177	151	2,364	1,866	289	242	24	21	265	221	2,507	2,208
New Jersey	3,891	3,189	22.0%	1,498	1,117	2,393	2,072	84	76	1,248	897	1,263	1,097	158	137	1,106	961	196	153	9	7	187	146	1,100	965
New York	3,161	2,258	40.0%	976	500	2,184	1,758	0	0	958	484	1,089	760	12	10	1,077	750	23	22	6	6	16	16	1,091	992
Pennsylvania	733	545	34.5%	175	79	559	466	0	0	158	67	189	160	8	4	181	155	70	67	9	8	62	59	316	251
East North Central	1,995	1,360	46.7%	915	678	1,080	682	328	224	571	440	565	377	14	12	551	365	58	47	2	2	56	45	473	272
Illinois	503	235	114.0%	80	59	422	176	2	2	75	54	238	101	3	3	235	98	1	0	0	0	1	0	186	78
Indiana	570	431	32.3%	410	309	159	121	214	132	194	175	86	70	2	2	84	68	6	3	0	0	6	3	70	51
Michigan	303	242	25.3%	155	138	148	104	91	84	63	53	66	51	NM	1	64	50	3	3	0	0	3	3	81	51
Ohio	412	320	28.5%	185	135	227	185	8	7	170	123	127	116	5	4	122	112	28	25	2	2	26	23	79	50
Wisconsin	208	132	57.7%	85	36	123	96	14	0	68	34	49	39	3	2	46	37	20	16	0	0	20	16	57	42
West North Central	2,606	1,933	34.8%	1,872	1,355	734	578	32	27	1,840	1,327	332	274	1	1	331	273	31	22	0	0	31	22	372	283
Iowa	224	167	34.1%	23	15	201	152	9	8	14	7	123	94	0	0	123	94	7	5	0	0	7	5	70	53
Kansas	101	47	117.1%	55	11	46	36	NM	2	53	9	18	14	0	0	18	14	0	0	0	0	0	0	29	22
Minnesota	1,773	1,301	36.3%	1,649	1,202	125	99	3	3	1,646	1,199	33	33	0	0	33	33	16	11	0	0	16	11	76	55
Missouri	440	371	18.4%	99	96	340	275	11	10	88	85	150	127	1	1	149	126	7	6	0	0	7	6	184	144
Nebraska	64	44	44.5%	44	30	20	14	7	4	37	26	7	5	0	0	7	5	1	1	0	0	1	1	12	9
North Dakota	1	1	16.7%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	3	3	16.1%	NM	2	2	1	0	0	NM	2	1	0	0	0	1	0	0	0	0	0	0	0	1	1
South Atlantic	25,018	17,555	42.5%	21,593	14,810	3,425	2,744	6,790	4,123	14,653	10,547	911	847	143	134	768	713	347	320	7	6	340	313	2,317	1,718
Delaware	180	168	7.2%	61	51	119	118	7	6	54	44	30	33	0	0	30	33	8	8	0	0	8	8	81	77
District of Columbia	128	96	32.5%	17	8	110	88	0	0	17	8	52	47	0	0	52	47	0	0	0	0	0	0	58	41
Florida	7,037	4,255	65.4%	6,009	3,624	1,029	631	5,256	3,150	740	463	152	133	9	9	143	124	18	12	3	3	14	9	871	498
Georgia	3,885	2,285	70.0%	3,577	1,998	308	287	345	296	3,229	1,700	48	42	3	3	45	39	235	229	0	0	235	229	28	19
Maryland	1,539	1,393	10.5%	575	467	964	926	9	8	547	443	260	260	19	16	242	244	28	34	0	0	28	34	694	648
North Carolina	8,678	7,234	20.0%	8,343	6,980	335	254	565	418	7,670	6,459	231	219	109	103	123	115	13	7	0	0	13	7	199	132
South Carolina	2,029	1,099	84.7%	1,682	791	347	308	9	4	1,668	784	71	74	0	0	71	74	42	28	4	3	38	25	239	208
Virginia	1,528	1,013	50.8%	1,330	891	198	121	600	242	727	648	61	35	NM	2	58	34	2	2	0	0	2	2	137	86
West Virginia	14	12	24.7%	0	0	14	12	0	0	0	0	4	4	0	0	4	4	0	0	0	0	0	0	10	8
East South Central	1,314	1,176	11.8%	1,145	1,024	169	152	69	64	1,065	949	110	105	5	4	105	101	9	9	6	6	3	3	62	49
Alabama	371	381	-2.8%	357	368	14	13	26	22	331	346	10	9	0	0	10	9	1	1	0	0	1	1	3	3
Kentucky	92	81	14.2%	44	43	48	38	42	42	NM	1	22	21	0	0	22	21	1	1	0	0	1	1	25	15
Mississippi	428	313	36.5%	413	301	15	13	0	0	413	301	8	7	0	0	8	7	0	1	0	0	0	1	6	5
Tennessee	424	400	5.8%	331	312	93	89	NM	0	319	301	70	68	5	4	65	63	6	6	6	6	0	0	27	25
West South Central	9,476	5,513	71.9%	7,640	4,310	1,836	1,203	88	67	7,530	4,232	360	267	22	11	338	256	29	6	0	0	29	6	1,469	941
Arkansas	329	232	41.8%	248	199	81	33	NM	1	229	190	38	18	18	8	21	10	25	3	0	0	25	3	35	20
Louisiana	261	227	15.0%	24	1	237	225	NM	1	22	0	15	15	0	0	15	15	0	0	0	0	0	0	222	210
Oklahoma	94	74	27.2%	67	56	27	18	67	56	0	0	6	4	0	0	6	4	1	1	0	0	1	1	21	13
Texas	8,792	4,980	76.6%	7,301	4,053	1,491	927	18	8	7,279	4,042	301	229	4	3	297	226	3	2	0	0	3	2	1,190	698
Mountain	20,894	18,451	13.2%	15,713	14,011	5,181	4,440	1,250	1,178	14,352	12,739	1,420	1,289	105	92	1,315	1,197	73	67	7	4	67	63	3,799	3,179
Arizona	7,456	6,691	11.4%	4,736	4,284	2,720	2,407	696	709	4,026	3,560	805	722	14	15	791	707	13	13	0	0	13	13	1,917	1,686
Colorado	2,084	1,760	18.4%	1,424	1,164	660	596	8	5	1,389	1,144	239	222	27	15	212	207	2	2	0	0	2	2	445	387
Idaho	613	593	3.4%	530	537	83	55	0	0	525	536	8	6	0	0	8	6	9	4	4	1	5	2	71	47
Montana	62	51	19.7%	29	28	32	23	0	0	29	28	9	7	0	0	9	7	0	0	0	0	0	0	23	17
Nevada	5,832	5,068	15.1%	5,014	4,429	819	639	191	163	4,757	4,201	174	166	64	62	110	104	38	38	2	2	36	35	673	500
New Mexico	1,922	1,576	21.9%	1,583	1,298	339	278	355	300	1,227	998	89	81	0	0	89	81	1	1	0	0	1	1	249	195
Utah	2,755	2,528	9.0%	2,240	2,096	515	433	0	0	2,240	2,096	95	83	0	0	95	83	9	9	0	0	9	9	411	341
Wyoming	171	183	-6.9%	158	175	12	9	0	0	158	175	2	2	0	0	2	2	0	0	0	0	0	0	10	6
Pacific Contiguous	44,629	40,445	10.3%	27,686	25,753	16,943	14,693	484	459	26,981	25,109	4,151	3,671	161	146	3,991	3,525	2,413	2,101	61	39	2,352	2,062	10,600	9,105
California	43,087	39,335	9.5%	26,635	25,059	16,452	14,275	477	454	25,936	24,421	4,021	3,557	161	146	3,861	3,411	2,397	2,085	61	39	2,336	2,047	10,256	8,818
Oregon	1,258	870	44.6%	1,009	651	249	219	6	5	1,004	646	95	85	0	0	95	85	16	15	0	0	16	15	138	119
Washington	284	240	18.1%	42	42	242	198	NM	0	41	42	35	29	0	0	35	29	1	1	0	0	1	1	207	169
Pacific Noncontiguous	1,609	1,280	25.7%	476	244	1,133	1,037	80	36	396	208	432	405	0	0	432	405	4	3	0	0	4	3	698	628
Alaska	7	4	65.7%	0	0	7	4	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	5	3
Hawaii	1,603	1,276	25.6%	476	244	1,127	1,033	80	36	396	208	431	404	0	0	431	404	4	3	0	0	4	3	692	625
U.S. Total	121,060	98,247	23.2%	81,681	65,336	39,379	32,911	9,378	6,362	71,551	58,331	12,854	10,905	639	561	12,215	10,344	3,414	2,944	112	82	3,301	2,862	23,864	19,704

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2020 are preliminary. Values for 2019 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	0	--	0	0	NM	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	NM	0	--	0	0	NM	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	868.8%	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	868.8%	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	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	40	29	39.6%	0	0	40	29	0	0	0	0
Arizona	36	25	44.2%	0	0	36	25	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	4	4	7.2%	0	0	4	4	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	123	112	9.6%	0	0	123	112	0	0	0	0
California	123	112	9.6%	0	0	123	112	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	164	141	16.1%	0	0	164	141	0	0	0	0

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

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

by State, by Sector, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	148	0	--	0	0	148	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	148	0	--	0	0	148	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	5	0	--	0	0	5	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	5	0	--	0	0	5	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	29	27	7.1%	29	27	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	29	27	7.1%	29	27	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	851	930	-8.5%	0	0	851	930	0	0	0	0
Arizona	746	771	-3.3%	0	0	746	771	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	105	159	-33.7%	0	0	105	159	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	2,161	2,190	-1.3%	0	0	2,161	2,190	0	0	0	0
California	2,161	2,190	-1.3%	0	0	2,161	2,190	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,195	3,148	1.5%	29	27	3,165	3,120	0	0	0	0

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

Chapter 2

Consumption of Fossil Fuels

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	677,371	496,192	178,047	111	3,021
2017	663,911	484,389	176,643	95	2,783
2018	636,213	473,617	159,976	87	2,534
2019	537,616	399,541	135,838	76	2,161
Year 2018					
January	64,845	47,762	16,817	11	255
February	45,793	34,002	11,552	9	230
March	44,474	32,312	11,930	8	224
April	40,515	30,350	9,965	7	193
May	47,293	35,261	11,815	6	211
June	56,078	42,502	13,360	6	210
July	63,818	48,277	15,322	6	212
August	63,737	47,866	15,660	7	204
Sept	53,914	40,293	13,415	7	199
October	48,422	35,547	12,695	6	173
November	51,702	37,956	13,537	7	202
December	55,624	41,488	13,908	7	221
Year 2019					
January	55,834	41,306	14,305	8	214
February	45,025	33,349	11,471	8	197
March	43,974	31,664	12,133	9	168
April	33,353	24,495	8,691	6	161
May	40,015	30,285	9,547	6	178
June	44,218	33,558	10,482	4	174
July	55,863	42,319	13,345	5	193
August	52,348	39,741	12,412	5	190
Sept	47,188	35,453	11,554	6	175
October	37,431	27,149	10,119	6	157
November	41,907	30,453	11,274	6	173
December	40,461	29,769	10,505	7	180
Year 2020					
January	36,767	27,293	9,282	5	187
February	32,039	23,652	8,201	9	177
March	28,988	21,679	7,134	6	168
April	23,622	17,006	6,469	4	144
May	26,849	19,805	6,898	4	142
June	36,637	27,742	8,759	5	130
July	49,838	38,279	11,411	5	143
August	50,430	38,888	11,398	4	140
Sept	38,701	29,619	8,927	7	149
October	33,890	24,931	8,804	5	149
November	34,351	24,661	9,541	6	144
Year to Date					
2018	580,590	432,129	146,068	80	2,313
2019	497,155	369,772	125,333	69	1,981
2020	392,112	293,555	96,823	62	1,673
Rolling 12 Months Ending in November					
2019	552,779	411,261	139,241	76	2,201
2020	432,573	323,323	107,328	69	1,853

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.B. Coal: Consumption for Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	16,586	2,979	1,336	572	11,700
2017	14,667	2,802	1,158	515	10,192
2018	13,813	2,268	1,356	490	9,700
2019	12,397	2,062	1,161	443	8,731
Year 2018					
January	1,434	237	144	65	987
February	1,285	216	126	51	892
March	1,254	202	119	49	885
April	1,095	188	100	40	767
May	1,081	173	106	33	769
June	1,081	184	107	30	759
July	1,078	189	105	34	750
August	1,064	181	103	35	745
Sept	1,061	183	97	38	743
October	984	159	72	35	718
November	1,167	173	141	40	813
December	1,229	182	135	40	872
Year 2019					
January	1,312	198	158	51	905
February	1,158	189	114	47	808
March	1,112	189	110	49	764
April	1,009	141	102	34	732
May	941	123	90	33	695
June	950	161	95	23	671
July	950	171	97	30	653
August	974	190	88	32	664
Sept	914	168	73	34	640
October	985	174	81	31	699
November	1,019	174	76	38	731
December	1,072	184	76	42	770
Year 2020					
January	1,058	156	70	35	796
February	1,016	144	69	40	763
March	917	108	56	34	719
April	803	90	59	25	630
May	803	115	53	28	608
June	772	124	49	29	569
July	870	166	55	30	618
August	855	171	56	33	594
Sept	848	132	55	34	626
October	938	146	63	29	700
November	897	118	68	30	681
Year to Date					
2018	12,584	2,086	1,220	450	8,827
2019	11,325	1,879	1,085	401	7,961
2020	9,776	1,471	653	348	7,304
Rolling 12 Months Ending in November					
2019	12,554	2,060	1,220	440	8,833
2020	10,848	1,655	729	390	8,074

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 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	693,958	499,172	179,383	683	14,720
2017	678,578	487,192	177,801	610	12,975
2018	650,027	475,885	161,332	577	12,233
2019	550,013	401,603	136,998	519	10,892
Year 2018					
January	66,279	47,999	16,961	76	1,242
February	47,079	34,219	11,679	59	1,122
March	45,728	32,513	12,049	57	1,109
April	41,610	30,538	10,065	47	960
May	48,374	35,435	11,921	39	979
June	57,159	42,687	13,467	36	969
July	64,895	48,467	15,427	40	962
August	64,801	48,047	15,763	42	949
Sept	54,975	40,475	13,512	45	943
October	49,406	35,706	12,768	42	891
November	52,868	38,129	13,677	47	1,015
December	56,853	41,670	14,043	47	1,093
Year 2019					
January	57,146	41,504	14,463	59	1,119
February	46,183	33,539	11,586	54	1,005
March	45,086	31,853	12,243	58	932
April	34,362	24,636	8,793	40	893
May	40,956	30,408	9,637	38	873
June	45,168	33,720	10,577	27	845
July	56,813	42,490	13,442	35	846
August	53,322	39,931	12,500	37	854
Sept	48,102	35,621	11,628	40	814
October	38,416	27,323	10,200	37	856
November	42,925	30,627	11,350	44	904
December	41,533	29,952	10,581	49	950
Year 2020					
January	37,825	27,449	9,352	41	984
February	33,055	23,796	8,270	49	939
March	29,905	21,788	7,190	41	886
April	24,425	17,096	6,527	29	773
May	27,652	19,920	6,951	32	749
June	37,409	27,867	8,808	35	699
July	50,708	38,446	11,467	35	761
August	51,285	39,059	11,454	37	735
Sept	39,549	29,751	8,982	41	775
October	34,828	25,077	8,867	34	850
November	35,248	24,779	9,608	36	825
Year to Date					
2018	593,173	434,215	147,288	530	11,141
2019	508,480	371,651	126,418	470	9,942
2020	401,889	295,026	97,476	410	8,977
Rolling 12 Months Ending in November					
2019	565,333	413,321	140,461	516	11,034
2020	443,422	324,979	108,057	459	9,927

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2010-November 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	22,405	16,137	5,624	108	536
2017	21,696	15,567	5,461	191	476
2018	28,614	18,345	9,467	269	534
2019	20,836	15,677	4,464	251	444
Year 2018					
January	9,468	4,469	4,861	66	72
February	1,451	1,118	270	14	49
March	1,497	1,096	348	12	42
April	1,601	1,169	383	15	34
May	1,863	1,340	463	18	43
June	1,895	1,378	464	18	35
July	1,753	1,216	454	27	56
August	1,870	1,295	516	24	35
Sept	1,863	1,401	411	18	33
October	1,814	1,368	390	16	40
November	1,799	1,281	452	22	45
December	1,740	1,216	455	20	49
Year 2019					
January	2,506	1,672	755	32	46
February	1,482	1,099	327	15	42
March	1,476	1,159	263	16	38
April	1,417	1,046	313	15	44
May	1,702	1,305	346	17	33
June	1,747	1,369	328	17	33
July	1,818	1,328	436	24	30
August	1,868	1,473	340	21	34
Sept	1,669	1,305	302	27	35
October	1,709	1,305	347	23	34
November	1,626	1,228	339	23	37
December	1,816	1,388	369	22	37
Year 2020					
January	1,777	1,484	237	22	34
February	1,444	1,187	210	12	35
March	1,369	1,012	309	17	31
April	1,185	923	222	12	28
May	1,288	1,010	227	20	31
June	1,569	1,232	287	20	30
July	1,747	1,343	348	25	31
August	1,674	1,316	311	24	23
Sept	1,411	1,129	233	23	27
October	1,644	1,330	264	17	33
November	1,390	1,127	211	20	32
Year to Date					
2018	26,874	17,128	9,012	250	485
2019	19,020	14,289	4,095	229	407
2020	16,498	13,092	2,859	213	334
Rolling 12 Months Ending in November					
2019	20,761	15,506	4,550	248	456
2020	18,313	14,479	3,228	235	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 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,277	68	245	245	1,719
2017	2,012	72	220	238	1,482
2018	2,614	103	354	350	1,807
2019	2,162	71	226	419	1,446
Year 2018					
January	701	58	132	109	402
February	179	4	12	25	138
March	156	3	13	21	118
April	136	3	12	17	104
May	147	4	18	16	109
June	162	5	14	15	128
July	156	3	11	28	114
August	143	4	12	23	104
Sept	130	7	15	15	93
October	190	5	16	16	153
November	228	3	20	30	174
December	287	3	80	35	169
Year 2019					
January	404	18	42	58	287
February	195	9	22	30	135
March	160	5	18	29	108
April	143	4	16	17	106
May	228	5	16	120	86
June	115	3	16	12	83
July	110	3	12	24	71
August	124	5	11	23	84
Sept	138	5	20	28	86
October	140	5	18	21	96
November	249	4	17	32	195
December	157	5	16	26	109
Year 2020					
January	134	4	9	26	94
February	121	4	10	17	90
March	113	3	12	20	78
April	102	6	14	12	70
May	120	3	13	22	81
June	121	4	13	18	86
July	129	3	15	27	84
August	140	3	15	33	88
Sept	121	3	16	23	80
October	134	5	19	18	92
November	165	5	39	25	97
Year to Date					
2018	2,327	100	274	315	1,638
2019	2,005	66	209	393	1,337
2020	1,400	44	176	240	940
Rolling 12 Months Ending in November					
2019	2,292	69	289	428	1,506
2020	1,557	49	192	267	1,049

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	24,682	16,205	5,869	352	2,255
2017	23,708	15,640	5,681	429	1,958
2018	31,228	18,448	9,820	619	2,341
2019	22,998	15,748	4,690	670	1,890
Year 2018					
January	10,169	4,527	4,993	175	474
February	1,630	1,122	282	39	187
March	1,653	1,099	361	33	160
April	1,738	1,172	395	32	138
May	2,010	1,343	480	34	152
June	2,057	1,383	478	33	164
July	1,909	1,219	465	55	170
August	2,012	1,298	528	46	140
Sept	1,993	1,407	426	34	127
October	2,003	1,373	406	31	193
November	2,027	1,284	472	52	219
December	2,027	1,220	534	55	218
Year 2019					
January	2,911	1,691	797	90	333
February	1,678	1,108	349	44	177
March	1,635	1,164	281	44	145
April	1,560	1,049	329	32	150
May	1,929	1,311	362	137	119
June	1,862	1,372	344	29	117
July	1,928	1,332	448	48	101
August	1,992	1,478	352	44	118
Sept	1,807	1,310	321	54	121
October	1,848	1,309	365	44	130
November	1,875	1,231	356	55	232
December	1,972	1,393	385	48	146
Year 2020					
January	1,911	1,489	246	48	128
February	1,565	1,191	220	30	124
March	1,482	1,015	321	37	109
April	1,286	928	236	24	98
May	1,408	1,013	240	42	113
June	1,690	1,236	300	38	116
July	1,876	1,346	363	53	115
August	1,814	1,319	326	57	111
Sept	1,532	1,132	249	45	106
October	1,779	1,335	284	35	125
November	1,555	1,132	249	45	129
Year to Date					
2018	29,201	17,228	9,286	565	2,123
2019	21,026	14,355	4,305	622	1,744
2020	17,898	13,136	3,035	453	1,274
Rolling 12 Months Ending in November					
2019	23,053	15,575	4,839	676	1,962
2020	19,870	14,528	3,421	501	1,420

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,253	3,427	591	2	233
2017	3,490	2,731	542	3	214
2018	3,623	2,740	704	2	177
2019	2,724	2,067	478	1	177
Year 2018					
January	377	296	67	0	14
February	305	234	60	0	11
March	255	198	43	0	13
April	271	193	63	0	15
May	212	140	58	0	14
June	338	269	51	0	18
July	367	284	66	0	17
August	352	272	66	0	15
Sept	325	259	50	0	15
October	229	158	54	0	16
November	271	196	63	0	13
December	321	241	65	0	16
Year 2019					
January	326	258	54	0	13
February	272	222	39	0	11
March	235	193	28	0	13
April	155	107	32	0	16
May	294	219	60	0	14
June	216	151	51	0	14
July	309	227	58	0	24
August	276	203	58	0	15
Sept	231	183	33	0	15
October	83	64	3	0	15
November	129	101	15	0	14
December	197	137	46	0	14
Year 2020					
January	261	204	42	0	15
February	190	147	31	0	12
March	262	210	39	0	13
April	221	179	33	0	9
May	231	183	35	0	13
June	308	258	36	0	14
July	356	298	43	0	15
August	305	245	44	0	16
Sept	159	116	31	0	13
October	131	82	36	0	13
November	211	157	39	0	15
Year to Date					
2018	3,301	2,499	639	2	161
2019	2,527	1,930	432	1	163
2020	2,634	2,079	408	1	147
Rolling 12 Months Ending in November					
2019	2,848	2,171	497	2	179
2020	2,831	2,215	454	1	161

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,099	6	113	9	971
2017	977	11	115	15	836
2018	929	12	93	10	814
2019	839	17	93	6	724
Year 2018					
January	88	1	9	2	76
February	78	1	8	2	67
March	72	1	9	1	61
April	83	1	10	1	71
May	70	1	6	0	63
June	75	1	1	0	73
July	81	1	9	0	71
August	77	1	9	0	66
Sept	74	1	7	1	65
October	77	0	9	1	67
November	71	1	8	2	61
December	83	1	8	2	72
Year 2019					
January	73	1	8	2	62
February	66	1	8	1	55
March	73	1	9	1	62
April	71	2	9	1	59
May	70	1	9	0	61
June	70	1	7	0	62
July	76	2	8	0	65
August	69	0	8	0	61
Sept	79	2	7	0	69
October	64	1	2	0	61
November	57	2	9	0	46
December	72	2	9	1	60
Year 2020					
January	75	1	9	2	62
February	49	1	9	1	37
March	39	1	9	0	30
April	31	3	8	0	21
May	59	3	8	0	48
June	71	1	6	0	64
July	69	1	7	0	62
August	79	4	8	0	67
Sept	69	1	9	0	60
October	74	0	9	0	64
November	69	2	9	0	58
Year to Date					
2018	846	11	85	9	742
2019	767	14	83	5	664
2020	684	18	91	3	572
Rolling 12 Months Ending in November					
2019	850	16	92	7	736
2020	756	20	101	4	632

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,352	3,433	705	10	1,204
2017	4,467	2,742	657	17	1,050
2018	4,552	2,752	797	12	991
2019	3,563	2,083	571	7	900
Year 2018					
January	466	297	76	2	90
February	382	235	68	2	78
March	327	199	52	2	74
April	354	195	72	1	86
May	281	141	63	0	77
June	413	270	52	0	91
July	448	285	75	0	88
August	429	273	75	0	81
Sept	399	260	58	1	80
October	306	159	63	1	83
November	342	196	70	2	74
December	404	242	73	2	88
Year 2019					
January	399	260	62	2	75
February	338	224	47	1	66
March	308	194	37	2	75
April	227	110	41	1	74
May	364	220	69	0	75
June	287	152	58	0	76
July	385	230	66	0	89
August	346	203	66	0	76
Sept	310	185	40	0	84
October	146	65	5	0	76
November	186	102	24	0	60
December	269	139	55	1	74
Year 2020					
January	336	205	51	2	77
February	239	148	40	1	49
March	301	211	47	0	43
April	252	182	40	0	29
May	290	187	43	0	61
June	379	258	43	0	78
July	425	298	50	0	77
August	383	249	52	0	83
Sept	228	117	40	0	72
October	205	83	45	0	77
November	280	159	48	0	73
Year to Date					
2018	4,148	2,510	724	10	903
2019	3,294	1,945	516	7	827
2020	3,318	2,097	499	4	718
Rolling 12 Months Ending in November					
2019	3,698	2,187	589	9	914
2020	3,587	2,236	555	5	792

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2010-November 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,170,110	5,018,894	4,571,375	46,304	533,537
2017	9,508,062	4,754,893	4,161,984	50,060	541,126
2018	10,833,043	5,551,181	4,663,935	52,650	565,276
2019	11,600,558	5,968,380	4,958,798	55,575	617,805
Year 2018					
January	805,929	425,891	327,351	4,145	48,542
February	706,517	363,824	296,296	3,886	42,511
March	772,448	395,826	329,151	4,071	43,400
April	722,667	372,401	303,383	3,616	43,268
May	868,518	459,568	359,038	4,201	45,712
June	973,956	520,305	402,054	4,633	46,963
July	1,245,648	639,299	549,546	5,518	51,285
August	1,208,900	605,610	546,123	5,593	51,575
Sept	1,051,922	530,570	468,776	4,838	47,737
October	909,338	457,374	400,338	4,290	47,335
November	784,673	395,480	337,321	3,760	48,112
December	782,527	385,034	344,559	4,098	48,836
Year 2019					
January	873,247	441,597	373,529	4,566	53,555
February	801,042	411,828	338,638	4,217	46,359
March	835,654	431,525	350,686	4,516	48,926
April	762,539	398,908	313,343	4,173	46,115
May	863,102	458,692	350,386	4,217	49,806
June	1,016,432	538,784	422,755	4,619	50,274
July	1,283,523	657,262	566,007	5,625	54,630
August	1,305,852	676,156	568,683	5,493	55,519
Sept	1,108,866	572,573	478,814	4,824	52,654
October	964,472	493,737	414,452	4,356	51,926
November	846,545	423,023	366,212	4,253	53,057
December	939,284	464,296	415,293	4,715	54,981
Year 2020					
January	957,988	488,493	409,190	4,702	55,603
February	901,967	466,047	381,213	4,216	50,491
March	901,984	472,779	374,003	4,084	51,119
April	783,043	414,915	319,418	3,516	45,194
May	853,523	456,172	346,972	3,804	46,574
June	1,067,619	556,783	457,006	4,249	49,581
July	1,396,437	715,032	623,770	5,046	52,588
August	1,304,306	665,469	580,958	4,980	52,899
Sept	1,058,029	536,040	469,587	4,484	47,918
October	974,459	504,772	419,108	4,027	46,553
November	789,561	401,900	335,764	3,906	47,991
Year to Date					
2018	10,050,516	5,166,148	4,319,376	48,552	516,440
2019	10,661,274	5,504,084	4,543,505	50,860	562,824
2020	10,988,917	5,678,402	4,716,990	47,013	546,512
Rolling 12 Months Ending in November					
2019	11,443,801	5,889,118	4,888,064	54,959	611,660
2020	11,928,201	6,142,698	5,132,283	51,728	601,493

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2010-November 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	1,151,866	38,096	356,905	80,943	675,922
2017	1,168,544	38,740	309,949	104,324	715,532
2018	1,205,962	43,156	331,952	81,856	748,997
2019	1,196,025	42,645	317,231	79,734	756,415
Year 2018					
January	107,213	3,929	28,934	7,417	66,933
February	94,793	3,366	26,629	6,706	58,093
March	100,213	3,557	28,088	6,844	61,724
April	92,932	2,942	25,265	6,133	58,592
May	94,707	3,306	26,238	6,099	59,064
June	97,016	3,642	26,642	6,537	60,196
July	107,003	4,484	30,339	7,649	64,531
August	105,929	4,079	29,861	7,691	64,297
Sept	99,289	3,479	27,089	6,581	62,140
October	99,045	3,013	27,218	6,411	62,402
November	101,846	3,185	27,080	6,829	64,751
December	105,976	4,174	28,570	6,959	66,273
Year 2019					
January	108,272	3,951	29,369	7,409	67,543
February	97,224	3,804	24,972	6,793	61,656
March	101,583	3,690	27,549	6,684	63,661
April	91,878	2,748	24,623	6,027	58,480
May	94,224	2,863	24,079	5,727	61,556
June	95,837	3,342	25,592	6,130	60,772
July	102,404	3,983	27,280	7,354	63,786
August	104,051	4,098	28,829	6,950	64,175
Sept	97,399	3,762	25,526	6,377	61,734
October	96,976	2,931	25,473	6,171	62,402
November	100,030	3,527	26,036	6,628	63,839
December	106,147	3,946	27,902	7,486	66,812
Year 2020					
January	110,376	3,952	29,591	7,417	69,416
February	101,476	3,765	27,602	6,840	63,269
March	102,945	3,868	28,178	6,673	64,226
April	97,212	3,744	25,879	5,909	61,679
May	97,962	3,618	26,933	5,895	61,516
June	98,138	3,829	27,774	6,026	60,510
July	104,421	4,633	29,468	6,621	63,700
August	104,386	4,407	29,712	6,633	63,634
Sept	97,282	3,623	28,066	6,124	59,469
October	102,137	3,158	26,802	6,348	65,829
November	98,806	2,996	26,313	6,434	63,062
Year to Date					
2018	1,099,986	38,982	303,383	74,897	682,724
2019	1,089,879	38,699	289,329	72,248	689,603
2020	1,115,142	41,593	306,319	70,920	696,310
Rolling 12 Months Ending in November					
2019	1,195,855	42,873	317,898	79,207	755,876
2020	1,221,288	45,538	334,221	78,407	763,122

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-November 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,321,975	5,056,990	4,928,280	127,246	1,209,459
2017	10,676,606	4,793,632	4,471,933	154,383	1,256,658
2018	12,039,005	5,594,338	4,995,888	134,507	1,314,273
2019	12,796,583	6,011,024	5,276,029	135,310	1,374,220
Year 2018					
January	913,142	429,820	356,285	11,562	115,475
February	801,310	367,190	322,924	10,592	100,604
March	872,661	399,383	357,239	10,914	105,124
April	815,600	375,343	328,647	9,750	101,860
May	963,226	462,873	385,276	10,300	104,776
June	1,070,972	523,947	428,696	11,170	107,159
July	1,352,652	643,783	579,885	13,167	115,816
August	1,314,829	609,689	575,984	13,285	115,872
Sept	1,151,210	534,049	495,866	11,419	109,877
October	1,008,383	460,387	427,556	10,702	109,738
November	886,519	398,665	364,401	10,589	112,863
December	888,503	389,208	373,128	11,058	115,109
Year 2019					
January	981,519	445,548	402,898	11,975	121,099
February	898,267	415,631	363,610	11,010	108,015
March	937,238	435,215	378,235	11,200	112,587
April	854,417	401,656	337,966	10,200	104,595
May	957,326	461,555	374,465	9,944	111,362
June	1,112,268	542,126	448,347	10,749	111,046
July	1,385,927	661,245	593,287	12,979	118,416
August	1,409,903	680,254	597,512	12,443	119,694
Sept	1,206,264	576,335	504,340	11,201	114,389
October	1,061,448	496,668	439,925	10,527	114,328
November	946,575	426,550	392,248	10,881	116,896
December	1,045,431	468,241	443,195	12,201	121,793
Year 2020					
January	1,068,364	492,445	438,782	12,119	125,018
February	1,003,444	469,812	408,815	11,057	113,760
March	1,004,930	476,647	402,181	10,756	115,345
April	880,255	418,659	345,297	9,425	106,874
May	951,485	459,790	373,906	9,699	108,090
June	1,165,757	560,612	484,779	10,275	110,091
July	1,500,857	719,665	653,238	11,667	116,288
August	1,408,692	669,876	610,670	11,612	116,533
Sept	1,155,312	539,663	497,654	10,608	107,387
October	1,076,596	507,929	445,909	10,375	112,382
November	888,367	404,896	362,077	10,340	111,054
Year to Date					
2018	11,150,502	5,205,130	4,622,759	123,449	1,199,164
2019	11,751,153	5,542,783	4,832,834	123,108	1,252,427
2020	12,104,058	5,719,995	5,023,309	117,933	1,242,822
Rolling 12 Months Ending in November					
2019	12,639,656	5,931,991	5,205,962	134,166	1,367,537
2020	13,149,489	6,188,236	5,466,504	130,135	1,364,615

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2010-November 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	273,557	24,280	224,993	20,445	3,839
2017	278,112	25,074	229,050	20,121	3,866
2018	270,235	23,580	223,513	19,790	3,352
2019	257,494	22,726	214,819	16,874	3,075
Year 2018					
January	23,568	2,389	19,205	1,673	301
February	22,069	2,186	17,993	1,576	314
March	23,672	2,377	19,280	1,692	324
April	22,281	2,159	18,159	1,633	330
May	22,748	2,125	18,722	1,609	291
June	21,854	1,777	18,189	1,607	281
July	22,507	1,817	18,773	1,651	266
August	23,061	1,739	19,377	1,696	249
Sept	20,472	1,604	17,004	1,643	222
October	22,360	1,779	18,634	1,687	259
November	22,405	1,812	18,708	1,630	255
December	23,237	1,815	19,468	1,695	259
Year 2019					
January	22,792	2,043	18,790	1,704	255
February	20,542	1,803	16,998	1,508	233
March	22,380	2,008	18,459	1,642	271
April	20,457	1,890	17,249	1,057	261
May	20,947	1,952	17,959	778	258
June	21,359	1,857	17,889	1,360	254
July	21,932	1,873	18,326	1,493	240
August	21,963	1,898	18,295	1,518	253
Sept	20,789	1,811	17,246	1,477	256
October	21,252	1,843	17,705	1,436	268
November	20,712	1,807	17,237	1,419	248
December	22,369	1,942	18,665	1,482	280
Year 2020					
January	22,311	1,938	18,576	1,528	269
February	20,640	1,829	17,098	1,469	245
March	22,387	2,004	18,602	1,545	236
April	21,190	1,936	17,788	1,284	183
May	21,603	1,977	18,123	1,341	162
June	19,659	1,817	16,381	1,285	176
July	20,610	1,919	17,123	1,384	184
August	21,068	1,975	17,544	1,381	169
Sept	20,346	1,940	16,913	1,334	158
October	20,064	1,927	16,661	1,306	170
November	19,157	1,779	15,704	1,473	201
Year to Date					
2018	246,998	21,764	204,045	18,096	3,093
2019	235,125	20,784	196,154	15,392	2,795
2020	229,036	21,040	190,514	15,329	2,153
Rolling 12 Months Ending in November					
2019	258,362	22,599	215,622	17,086	3,054
2020	251,405	22,982	209,179	16,811	2,433

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2010-November 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,163	3	2,339	1,034	788
2017	3,940	2	1,948	1,099	891
2018	3,621	0	1,867	911	843
2019	3,570	5	1,933	820	812
Year 2018					
January	321	0	176	68	77
February	320	0	165	79	77
March	340	0	175	82	83
April	335	0	164	85	86
May	285	0	140	71	74
June	259	0	146	46	68
July	278	0	139	76	64
August	302	0	157	82	63
Sept	290	0	150	82	58
October	334	0	170	95	69
November	276	0	134	73	68
December	280	0	152	71	57
Year 2019					
January	331	0	181	84	66
February	301	0	175	67	58
March	357	0	203	80	73
April	362	0	184	102	75
May	250	0	112	64	74
June	283	0	146	77	59
July	282	0	166	42	73
August	267	0	128	73	65
Sept	264	0	125	74	65
October	317	0	168	77	71
November	284	0	155	59	70
December	273	0	190	21	62
Year 2020					
January	392	0	278	36	78
February	392	0	253	65	73
March	318	0	176	73	69
April	195	0	65	70	60
May	252	0	143	54	55
June	275	0	150	65	60
July	300	0	167	76	57
August	291	0	163	74	53
Sept	294	0	166	74	54
October	352	0	194	106	52
November	337	0	212	61	64
Year to Date					
2018	3,341	0	1,715	840	787
2019	3,297	4	1,743	799	750
2020	3,400	3	1,968	754	676
Rolling 12 Months Ending in November					
2019	3,576	4	1,895	870	807
2020	3,673	3	2,158	774	738

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-November 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	277,720	24,283	227,332	21,479	4,626
2017	282,051	25,076	230,998	21,220	4,757
2018	273,856	23,580	225,380	20,701	4,196
2019	261,064	22,731	216,753	17,694	3,887
Year 2018					
January	23,890	2,389	19,382	1,741	378
February	22,390	2,186	18,158	1,655	390
March	24,012	2,377	19,455	1,774	407
April	22,616	2,159	18,323	1,718	416
May	23,033	2,125	18,862	1,680	366
June	22,113	1,777	18,335	1,652	349
July	22,785	1,817	18,912	1,726	330
August	23,363	1,739	19,534	1,778	313
Sept	20,763	1,604	17,154	1,725	280
October	22,694	1,779	18,804	1,783	328
November	22,681	1,812	18,842	1,703	324
December	23,516	1,815	19,620	1,766	316
Year 2019					
January	23,123	2,043	18,971	1,788	321
February	20,843	1,804	17,173	1,576	291
March	22,737	2,008	18,662	1,722	344
April	20,819	1,891	17,433	1,159	336
May	21,197	1,952	18,072	842	332
June	21,642	1,857	18,035	1,438	313
July	22,214	1,874	18,492	1,535	313
August	22,230	1,898	18,423	1,591	317
Sept	21,053	1,811	17,371	1,550	321
October	21,569	1,843	17,873	1,514	339
November	20,996	1,807	17,392	1,478	319
December	22,642	1,942	18,855	1,503	342
Year 2020					
January	22,703	1,938	18,854	1,565	347
February	21,032	1,829	17,352	1,534	317
March	22,705	2,004	18,777	1,618	306
April	21,386	1,936	17,853	1,354	243
May	21,856	1,977	18,267	1,394	218
June	19,934	1,817	16,531	1,350	236
July	20,910	1,919	17,290	1,460	241
August	21,360	1,975	17,707	1,455	222
Sept	20,641	1,940	17,079	1,408	212
October	20,416	1,927	16,855	1,411	222
November	19,494	1,780	15,916	1,533	266
Year to Date					
2018	250,339	21,764	205,760	18,935	3,880
2019	238,422	20,788	197,898	16,191	3,545
2020	232,436	21,043	192,481	16,083	2,830
Rolling 12 Months Ending in November					
2019	261,938	22,604	217,517	17,956	3,861
2020	255,079	22,985	211,337	17,585	3,172

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,994	464	13,953	2,566	11
2017	16,348	422	13,381	2,537	8
2018	16,783	467	13,859	2,448	9
2019	15,559	297	12,941	2,310	10
Year 2018					
January	1,370	28	1,147	195	0
February	1,297	26	1,090	180	1
March	1,398	40	1,153	204	1
April	1,356	38	1,117	200	1
May	1,419	43	1,158	217	1
June	1,476	42	1,218	214	1
July	1,479	48	1,224	207	1
August	1,483	47	1,220	215	1
Sept	1,334	36	1,097	199	1
October	1,387	43	1,140	205	0
November	1,369	39	1,127	202	0
December	1,416	37	1,169	210	0
Year 2019					
January	1,322	30	1,092	199	1
February	1,158	20	961	177	1
March	1,255	20	1,046	188	1
April	1,235	28	1,014	193	1
May	1,337	26	1,112	198	1
June	1,323	25	1,098	200	1
July	1,369	27	1,146	194	1
August	1,396	29	1,167	200	1
Sept	1,288	21	1,076	191	1
October	1,271	28	1,056	187	1
November	1,270	25	1,062	183	1
December	1,333	20	1,112	201	1
Year 2020					
January	1,287	19	1,079	188	1
February	1,183	14	1,002	166	1
March	1,309	26	1,096	186	1
April	1,246	25	1,049	171	1
May	1,289	24	1,081	183	1
June	1,210	25	1,005	178	1
July	1,337	26	1,120	190	1
August	1,357	26	1,145	185	1
Sept	1,253	23	1,059	171	1
October	1,236	24	1,038	174	1
November	1,234	24	1,033	175	1
Year to Date					
2018	15,367	430	12,691	2,239	9
2019	14,225	278	11,830	2,109	9
2020	13,940	257	11,707	1,966	10
Rolling 12 Months Ending in November					
2019	15,641	315	12,998	2,319	9
2020	15,273	277	12,819	2,167	11

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	2,232	0	885	1,134	213
2017	2,124	0	814	1,102	208
2018	2,050	0	752	1,109	189
2019	1,667	0	743	737	187
Year 2018					
January	182	0	64	102	17
February	163	0	60	91	12
March	169	0	64	93	12
April	160	0	54	90	16
May	176	0	59	101	16
June	177	0	65	95	18
July	180	0	65	98	17
August	183	0	66	95	21
Sept	144	0	58	68	17
October	160	0	61	83	16
November	173	0	66	93	14
December	182	0	70	100	13
Year 2019					
January	173	0	66	92	15
February	155	0	63	77	15
March	153	0	67	70	16
April	115	0	56	43	17
May	127	0	64	52	12
June	137	0	64	59	15
July	136	0	67	53	16
August	139	0	62	56	21
Sept	124	0	53	56	15
October	130	0	57	58	15
November	139	0	63	61	15
December	139	0	61	62	15
Year 2020					
January	139	0	73	53	13
February	133	0	69	47	16
March	131	0	62	54	15
April	131	0	61	54	16
May	140	0	67	57	16
June	123	0	67	43	13
July	128	0	59	54	15
August	141	0	64	56	21
Sept	115	0	51	48	15
October	124	0	60	50	14
November	122	0	57	49	16
Year to Date					
2018	1,867	0	682	1,009	176
2019	1,528	0	682	675	172
2020	1,427	0	691	565	171
Rolling 12 Months Ending in November					
2019	1,711	0	751	775	184
2020	1,566	0	752	627	187

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-November 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	19,226	464	14,838	3,700	224
2017	18,473	422	14,195	3,639	216
2018	18,833	467	14,611	3,557	197
2019	17,225	297	13,684	3,047	197
Year 2018					
January	1,552	28	1,211	296	17
February	1,459	26	1,150	271	13
March	1,567	40	1,217	297	13
April	1,516	38	1,171	290	17
May	1,595	43	1,217	319	17
June	1,653	42	1,283	309	19
July	1,659	48	1,288	305	18
August	1,666	47	1,286	311	22
Sept	1,478	36	1,156	268	18
October	1,547	43	1,201	288	16
November	1,542	39	1,193	295	14
December	1,598	37	1,238	310	13
Year 2019					
January	1,495	30	1,158	291	16
February	1,313	20	1,024	254	16
March	1,408	20	1,114	258	17
April	1,350	28	1,069	235	18
May	1,465	26	1,176	249	13
June	1,461	25	1,162	258	15
July	1,504	27	1,213	247	17
August	1,535	29	1,229	256	22
Sept	1,412	21	1,129	246	16
October	1,401	28	1,113	245	16
November	1,409	25	1,125	244	15
December	1,472	20	1,173	263	16
Year 2020					
January	1,426	19	1,152	240	14
February	1,316	14	1,071	214	17
March	1,439	26	1,158	240	16
April	1,377	25	1,110	224	17
May	1,429	24	1,148	239	17
June	1,333	25	1,072	221	14
July	1,465	26	1,179	245	16
August	1,498	26	1,209	241	22
Sept	1,368	23	1,110	219	16
October	1,361	24	1,098	223	15
November	1,355	24	1,090	225	16
Year to Date					
2018	17,235	430	13,373	3,247	185
2019	15,754	278	12,511	2,784	181
2020	15,367	257	12,397	2,531	181
Rolling 12 Months Ending in November					
2019	17,352	315	13,749	3,094	194
2020	16,839	277	13,570	2,794	198

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2010-November 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	359,983	41,036	149,516	473	168,959
2017	363,646	42,806	151,877	460	168,503
2018	361,703	45,856	143,288	520	172,039
2019	338,317	42,240	128,980	583	166,514
Year 2018					
January	33,136	4,713	13,790	63	14,571
February	28,906	3,689	12,141	42	13,033
March	31,435	4,501	12,243	36	14,655
April	26,860	2,966	10,597	16	13,280
May	29,530	3,196	11,683	32	14,619
June	31,205	3,909	12,733	53	14,509
July	33,490	4,670	13,260	59	15,501
August	32,186	4,427	12,624	69	15,067
Sept	28,704	3,340	11,278	52	14,034
October	27,972	3,376	10,642	27	13,927
November	28,539	3,741	10,733	20	14,044
December	29,741	3,326	11,563	51	14,801
Year 2019					
January	31,330	4,132	12,533	52	14,613
February	26,761	3,408	10,117	57	13,179
March	28,083	3,232	10,362	72	14,418
April	23,804	2,677	8,499	24	12,604
May	26,723	3,451	10,257	18	12,997
June	27,518	2,894	10,815	31	13,778
July	31,373	4,740	11,694	101	14,838
August	31,913	5,205	11,694	63	14,951
Sept	28,163	3,594	11,078	51	13,440
October	26,246	2,962	9,729	42	13,513
November	26,964	2,194	11,052	35	13,684
December	29,438	3,751	11,151	37	14,500
Year 2020					
January	28,388	3,247	10,789	48	14,305
February	27,087	3,138	10,527	41	13,381
March	26,785	2,514	10,151	32	14,089
April	24,389	2,091	9,026	8	13,264
May	26,080	2,346	10,272	29	13,433
June	25,037	2,338	9,927	54	12,719
July	26,684	3,012	10,347	88	13,237
August	29,300	4,169	11,575	89	13,467
Sept	23,986	1,725	9,257	45	12,960
October	23,847	1,786	9,793	58	12,210
November	25,710	2,118	9,821	49	13,722
Year to Date					
2018	331,962	42,529	131,725	469	157,239
2019	308,879	38,489	117,829	546	152,014
2020	287,293	28,484	111,483	541	146,785
Rolling 12 Months Ending in November					
2019	338,619	41,815	129,392	597	166,815
2020	316,732	32,235	122,634	578	161,285

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2010-November 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	969,841	10,950	22,905	4,520	931,465
2017	939,633	11,656	22,986	4,522	900,469
2018	929,365	10,297	21,623	4,806	892,639
2019	907,420	3,564	25,740	4,969	873,147
Year 2018					
January	81,175	844	2,115	454	77,762
February	73,007	878	2,141	474	69,514
March	78,989	948	1,966	493	75,583
April	73,967	869	1,533	339	71,225
May	77,198	673	1,679	319	74,528
June	75,544	655	1,683	402	72,805
July	80,237	991	1,899	382	76,964
August	79,868	854	1,930	417	76,667
Sept	73,254	655	1,676	336	70,587
October	76,266	1,005	1,607	329	73,326
November	76,373	891	1,635	343	73,503
December	83,486	1,033	1,759	518	80,175
Year 2019					
January	81,039	449	2,361	544	77,685
February	73,341	412	2,142	478	70,309
March	77,242	410	2,134	436	74,262
April	72,647	421	2,095	344	69,788
May	74,589	127	2,256	356	71,850
June	73,406	186	2,365	342	70,512
July	76,941	286	2,031	403	74,220
August	77,355	190	2,179	398	74,588
Sept	72,370	117	2,067	394	69,791
October	74,506	233	1,711	423	72,140
November	75,571	346	2,122	442	72,662
December	78,415	386	2,277	410	75,342
Year 2020					
January	77,233	288	2,427	484	74,034
February	73,399	272	2,523	454	70,149
March	74,478	266	2,582	353	71,277
April	72,387	224	1,976	238	69,948
May	76,448	244	2,594	322	73,289
June	68,307	252	2,057	395	65,605
July	71,066	280	2,033	251	68,503
August	69,907	285	2,528	245	66,850
Sept	70,804	224	2,239	166	68,174
October	73,264	204	2,247	191	70,622
November	75,451	248	2,594	233	72,375
Year to Date					
2018	845,879	9,264	19,864	4,288	812,464
2019	829,005	3,178	23,463	4,559	797,805
2020	802,744	2,788	25,801	3,330	770,825
Rolling 12 Months Ending in November					
2019	912,491	4,211	25,222	5,077	877,981
2020	881,159	3,174	28,078	3,740	846,167

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-November 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2010	1,225,571	40,167	155,429	1,338	1,028,637
2011	1,240,937	35,474	146,684	1,504	1,057,275
2012	1,273,500	32,723	157,468	1,427	1,081,882
2013	1,317,560	43,363	164,063	1,486	1,108,647
2014	1,377,629	54,478	196,775	4,727	1,121,648
2015	1,350,612	53,269	190,587	4,219	1,102,537
2016	1,329,824	51,986	172,421	4,993	1,100,424
2017	1,303,279	54,462	174,862	4,982	1,068,972
2018	1,291,068	56,153	164,911	5,326	1,064,678
2019	1,245,737	45,804	154,720	5,552	1,039,661
Year 2018					
January	114,312	5,557	15,905	517	92,333
February	101,913	4,567	14,282	516	82,547
March	110,425	5,449	14,209	528	90,238
April	100,826	3,835	12,131	356	84,505
May	106,728	3,869	13,362	351	89,146
June	106,749	4,564	14,416	455	87,314
July	113,727	5,661	15,160	441	92,465
August	112,054	5,281	14,554	486	91,733
Sept	101,958	3,995	12,954	388	84,621
October	104,238	4,381	12,248	356	87,253
November	104,912	4,633	12,368	363	87,548
December	113,227	4,360	13,322	569	94,976
Year 2019					
January	112,369	4,581	14,894	596	92,297
February	100,102	3,820	12,259	535	83,488
March	105,325	3,641	12,496	508	88,680
April	96,451	3,098	10,594	368	82,392
May	101,311	3,578	12,513	374	84,847
June	100,924	3,081	13,179	373	84,291
July	108,314	5,026	13,725	505	89,058
August	109,267	5,395	13,873	461	89,539
Sept	100,533	3,712	13,145	446	83,230
October	100,752	3,195	11,441	464	85,652
November	102,536	2,540	13,174	477	86,345
December	107,853	4,138	13,428	447	89,841
Year 2020					
January	105,622	3,535	13,216	532	88,338
February	100,485	3,411	13,050	495	83,530
March	101,264	2,780	12,733	385	85,365
April	96,775	2,315	11,003	246	83,212
May	102,528	2,590	12,865	351	86,721
June	93,345	2,589	11,984	448	78,324
July	97,750	3,292	12,379	339	81,740
August	99,208	4,454	14,103	334	80,316
Sept	94,790	1,950	11,496	210	81,134
October	97,111	1,990	12,040	249	82,832
November	101,160	2,366	12,415	282	86,098
Year to Date					
2018	1,177,841	51,793	151,589	4,757	969,702
2019	1,137,884	41,666	141,292	5,105	949,820
2020	1,090,037	31,272	137,285	3,871	917,610
Rolling 12 Months Ending in November					
2019	1,251,110	46,026	154,614	5,674	1,044,796
2020	1,197,891	35,409	150,712	4,317	1,007,452

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, November 2020 and November 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	6	14	-58.0%	5	12	1	1	0	0	NM	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	-23.0%	0	0	1	1	0	0	NM	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	5	12	-62.0%	5	12	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,161	1,668	-30.0%	0	0	1,159	1,667	0	0	2	1
New Jersey	21	33	-37.0%	0	0	21	33	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	1,140	1,635	-30.0%	0	0	1,138	1,634	0	0	2	1
East North Central	8,184	8,891	-8.0%	4,729	5,264	3,410	3,581	1	1	45	44
Illinois	1,586	2,501	-37.0%	65	153	1,485	2,313	0	0	35	35
Indiana	2,136	2,651	-19.0%	1,955	2,448	180	202	0	1	0	0
Michigan	1,618	1,327	22.0%	1,605	1,307	13	18	0	0	0	1
Ohio	1,925	1,269	52.0%	194	220	1,732	1,049	0	0	0	0
Wisconsin	919	1,145	-20.0%	909	1,136	0	0	0	0	10	9
West North Central	7,046	8,604	-18.0%	6,981	8,516	0	0	1	2	64	86
Iowa	291	996	-71.0%	256	952	0	0	1	1	34	42
Kansas	794	976	-19.0%	794	976	0	0	0	0	0	0
Minnesota	791	883	-10.0%	788	880	0	0	0	0	3	4
Missouri	2,616	2,619	-0.1%	2,616	2,619	0	0	0	0	0	0
Nebraska	837	1,071	-22.0%	813	1,034	0	0	0	0	24	37
North Dakota	1,600	1,902	-16.0%	1,597	1,899	0	0	0	0	3	4
South Dakota	117	156	-25.0%	117	156	0	0	0	0	0	0
South Atlantic	3,591	5,438	-34.0%	3,009	4,827	568	598	1	1	13	12
Delaware	12	1	NM	0	0	12	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	571	867	-34.0%	570	867	0	0	0	0	1	1
Georgia	553	819	-32.0%	550	816	0	0	0	0	3	3
Maryland	52	216	-76.0%	0	0	52	216	0	0	0	0
North Carolina	468	1,067	-56.0%	461	1,061	4	3	1	1	2	2
South Carolina	396	462	-14.0%	391	458	4	4	0	0	1	0
Virginia	94	168	-44.0%	84	161	4	1	0	0	6	6
West Virginia	1,446	1,838	-21.0%	953	1,464	493	374	0	0	0	0
East South Central	2,797	3,703	-24.0%	2,787	3,525	4	169	0	0	6	8
Alabama	1,027	1,232	-17.0%	1,027	1,232	0	0	0	0	0	0
Kentucky	1,399	1,561	-10.0%	1,399	1,561	0	0	0	0	0	0
Mississippi	107	186	-42.0%	103	17	4	169	0	0	0	0
Tennessee	263	723	-64.0%	257	715	0	0	0	0	6	8
West South Central	5,573	6,239	-11.0%	2,311	2,605	3,261	3,628	0	0	1	6
Arkansas	662	1,150	-42.0%	447	932	214	217	0	0	1	1
Louisiana	60	242	-75.0%	40	126	20	116	0	0	0	0
Oklahoma	156	221	-30.0%	156	216	0	0	0	0	0	6
Texas	4,695	4,626	1.5%	1,668	1,331	3,027	3,295	0	0	0	0
Mountain	5,323	6,560	-19.0%	4,795	5,530	521	1,022	0	0	8	9
Arizona	694	816	-15.0%	694	816	0	0	0	0	0	0
Colorado	888	1,210	-27.0%	888	1,210	0	0	0	0	0	0
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	417	915	-54.0%	23	25	394	889	0	0	1	1
Nevada	48	86	-45.0%	0	30	48	56	0	0	0	0
New Mexico	378	730	-48.0%	378	730	0	0	0	0	0	0
Utah	1,024	1,050	-2.5%	990	1,012	34	38	0	0	0	0
Wyoming	1,873	1,753	6.9%	1,821	1,706	45	40	0	0	7	7
Pacific Contiguous	550	668	-18.0%	0	136	544	526	0	0	6	6
California	5	5	2.8%	0	0	0	0	0	0	5	5
Oregon	0	136	-100.0%	0	136	0	0	0	0	0	0
Washington	545	527	3.4%	0	0	544	526	0	0	1	1
Pacific Noncontiguous	121	122	-0.8%	45	38	72	81	4	3	0	0
Alaska	60	56	7.6%	45	38	12	15	4	3	0	0
Hawaii	60	65	-8.1%	0	0	60	65	0	0	0	0
U.S. Total	34,351	41,907	-18.0%	24,661	30,453	9,541	11,274	6	6	144	173

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	46	202	-77.0%	32	139	12	59	0	0	2	3
Connecticut	2	48	-96.0%	0	0	2	48	0	0	0	0
Maine	12	15	-20.0%	0	0	10	12	0	0	2	3
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	32	139	-77.0%	32	139	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	12,380	18,265	-32.0%	0	0	12,368	18,243	0	0	12	21
New Jersey	367	404	-9.1%	0	0	367	404	0	0	0	0
New York	64	187	-66.0%	0	0	64	187	0	0	0	0
Pennsylvania	11,949	17,674	-32.0%	0	0	11,936	17,652	0	0	12	21
East North Central	80,898	107,991	-25.0%	48,336	64,123	32,028	43,316	7	14	527	538
Illinois	16,184	27,811	-42.0%	852	1,773	14,899	25,614	3	4	431	420
Indiana	21,710	28,934	-25.0%	19,665	27,083	2,041	1,841	4	9	0	0
Michigan	14,102	19,612	-28.0%	13,935	19,428	166	175	0	0	1	9
Ohio	16,770	17,963	-6.6%	1,848	2,277	14,922	15,686	0	0	0	0
Wisconsin	12,132	13,671	-11.0%	12,036	13,562	0	0	0	0	96	109
West North Central	82,239	94,461	-13.0%	81,473	93,473	0	0	13	18	753	971
Iowa	7,300	11,849	-38.0%	6,877	11,372	0	0	11	15	411	461
Kansas	10,246	10,620	-3.5%	10,246	10,620	0	0	0	0	0	0
Minnesota	7,405	9,627	-23.0%	7,364	9,480	0	0	0	1	41	146
Missouri	27,204	30,044	-9.5%	27,203	30,042	0	0	1	2	0	0
Nebraska	10,836	12,231	-11.0%	10,573	11,902	0	0	0	0	263	330
North Dakota	18,316	18,591	-1.5%	18,278	18,557	0	0	0	0	38	34
South Dakota	932	1,499	-38.0%	932	1,499	0	0	0	0	0	0
South Atlantic	47,421	65,419	-28.0%	41,846	58,469	5,454	6,792	7	9	114	149
Delaware	62	85	-27.0%	0	0	62	85	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,909	8,970	-23.0%	6,905	8,961	0	0	0	0	5	9
Georgia	6,373	12,798	-50.0%	6,339	12,762	0	0	0	0	33	36
Maryland	1,372	2,405	-43.0%	0	0	1,372	2,397	0	0	0	8
North Carolina	7,559	11,579	-35.0%	7,494	11,518	35	29	7	8	23	25
South Carolina	4,811	5,848	-18.0%	4,773	5,804	36	43	0	0	3	2
Virginia	1,587	1,735	-8.5%	1,515	1,620	22	45	0	1	51	70
West Virginia	18,747	21,999	-15.0%	14,820	17,806	3,927	4,193	0	0	0	0
East South Central	39,367	49,005	-20.0%	37,012	46,355	2,276	2,549	0	0	79	101
Alabama	10,787	13,163	-18.0%	10,787	13,158	0	0	0	0	0	5
Kentucky	18,621	23,028	-19.0%	18,621	23,028	0	0	0	0	0	0
Mississippi	3,552	3,804	-6.6%	1,276	1,255	2,276	2,549	0	0	0	0
Tennessee	6,407	9,010	-29.0%	6,328	8,914	0	0	0	0	79	96
West South Central	65,100	81,785	-20.0%	30,259	41,986	34,804	39,733	0	0	38	65
Arkansas	8,435	12,659	-33.0%	6,739	10,646	1,690	2,005	0	0	6	7
Louisiana	2,533	5,042	-50.0%	2,333	3,826	200	1,216	0	0	0	0
Oklahoma	3,537	5,186	-32.0%	3,505	5,128	0	0	0	0	32	58
Texas	50,596	58,898	-14.0%	17,682	22,385	32,914	36,512	0	0	0	0
Mountain	59,606	73,307	-19.0%	53,273	63,596	6,244	9,627	0	0	88	84
Arizona	7,591	12,178	-38.0%	7,591	12,178	0	0	0	0	0	0
Colorado	10,438	13,114	-20.0%	10,438	13,113	0	0	0	0	0	1
Idaho	4	4	-1.3%	0	0	0	0	0	0	4	4
Montana	5,137	8,494	-40.0%	205	260	4,928	8,230	0	0	4	4
Nevada	1,051	1,430	-27.0%	507	884	544	546	0	0	0	0
New Mexico	6,781	7,529	-9.9%	6,781	7,529	0	0	0	0	0	0
Utah	9,822	10,679	-8.0%	9,530	10,308	292	371	0	0	0	0
Wyoming	18,782	19,879	-5.5%	18,222	19,323	480	480	0	0	80	75
Pacific Contiguous	3,929	5,562	-29.0%	985	1,298	2,884	4,214	0	0	59	50
California	52	44	20.0%	0	0	0	0	0	0	52	44
Oregon	985	1,298	-24.0%	985	1,298	0	0	0	0	0	0
Washington	2,891	4,220	-31.0%	0	0	2,884	4,214	0	0	7	6
Pacific Noncontiguous	1,128	1,159	-2.7%	339	333	754	798	35	28	0	0
Alaska	523	501	4.3%	339	333	148	140	35	28	0	0
Hawaii	605	658	-8.0%	0	0	605	658	0	0	0	0
U.S. Total	392,112	497,155	-21.0%	293,555	369,772	96,823	125,333	62	69	1,673	1,981

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	15	33	-55.0%	NM	5	10	24	2	2	2	1
Connecticut	4	7	-50.0%	1	1	NM	6	0	0	0	0
Maine	5	4	21.0%	0	0	3	3	1	0	1	1
Massachusetts	NM	11	NM	NM	2	NM	8	NM	1	0	0
New Hampshire	3	6	-50.0%	NM	2	2	2	1	1	0	0
Rhode Island	2	5	-65.0%	0	0	2	5	0	0	NM	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	44	43	1.8%	11	7	26	32	NM	1	7	3
New Jersey	3	9	-66.0%	0	0	3	9	NM	0	0	0
New York	28	10	175.0%	11	7	11	2	NM	0	6	1
Pennsylvania	13	24	-45.0%	0	0	11	22	0	1	1	1
East North Central	59	81	-27.0%	41	40	18	40	0	0	0	1
Illinois	5	6	-18.0%	NM	1	4	5	NM	0	0	0
Indiana	28	16	78.0%	28	15	0	0	0	0	0	1
Michigan	6	10	-36.0%	6	10	0	0	NM	0	NM	0
Ohio	16	40	-61.0%	NM	4	14	35	0	0	0	0
Wisconsin	4	9	-58.0%	NM	9	0	0	0	0	0	0
West North Central	67	62	7.7%	66	61	NM	1	0	0	0	0
Iowa	8	14	-46.0%	7	14	NM	1	0	0	0	0
Kansas	23	13	68.0%	23	13	0	0	0	0	0	0
Minnesota	4	10	-60.0%	4	9	NM	1	0	0	0	0
Missouri	25	13	94.0%	25	13	0	0	0	0	0	0
Nebraska	NM	3	NM	NM	3	0	0	0	0	0	0
North Dakota	5	4	7.6%	5	4	0	0	0	0	0	0
South Dakota	NM	5	NM	NM	5	0	0	NM	0	0	0
South Atlantic	154	134	15.0%	107	99	28	14	16	15	3	6
Delaware	4	1	275.0%	1	0	3	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	23	17	34.0%	17	14	5	1	0	0	1	2
Georgia	16	18	-8.4%	13	12	NM	3	NM	0	2	2
Maryland	11	3	221.0%	NM	0	11	3	NM	0	0	0
North Carolina	22	25	-12.0%	20	23	NM	1	NM	0	1	1
South Carolina	8	17	-54.0%	8	14	0	2	NM	0	0	1
Virginia	53	30	78.0%	30	12	7	3	15	14	NM	0
West Virginia	18	24	-23.0%	18	24	0	0	0	0	0	0
East South Central	30	36	-17.0%	29	30	NM	5	0	0	0	0
Alabama	NM	7	NM	NM	2	NM	5	0	0	NM	0
Kentucky	14	17	-19.0%	14	17	0	0	0	0	0	0
Mississippi	0	1	-57.0%	0	1	0	0	0	0	0	0
Tennessee	15	11	38.0%	15	11	0	0	0	0	0	0
West South Central	24	39	-38.0%	20	23	4	14	0	0	0	3
Arkansas	7	13	-47.0%	5	11	2	2	0	0	NM	0
Louisiana	NM	13	NM	NM	5	0	9	0	0	0	0
Oklahoma	7	2	243.0%	7	2	0	0	0	0	0	0
Texas	7	10	-29.0%	5	5	NM	3	0	0	0	3
Mountain	63	80	-20.0%	57	78	6	1	NM	0	0	0
Arizona	9	8	16.0%	9	8	0	0	NM	0	0	0
Colorado	3	1	190.0%	3	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5	1	323.0%	NM	0	5	1	0	0	0	0
Nevada	1	2	-71.0%	0	1	1	0	0	0	0	0
New Mexico	34	53	-36.0%	34	53	0	0	0	0	0	0
Utah	5	8	-31.0%	5	8	1	0	0	0	0	0
Wyoming	6	7	-10.0%	6	7	0	0	0	0	0	0
Pacific Contiguous	11	10	4.8%	7	7	2	2	NM	0	1	1
California	8	6	34.0%	6	5	1	1	0	0	1	0
Oregon	NM	2	NM	NM	2	0	0	NM	0	0	0
Washington	2	2	-13.0%	NM	0	1	2	0	0	1	1
Pacific Noncontiguous	922	1,107	-17.0%	789	877	115	205	0	4	18	21
Alaska	114	130	-12.0%	110	124	NM	0	NM	1	4	5
Hawaii	808	977	-17.0%	679	753	114	204	0	3	14	17
U.S. Total	1,390	1,626	-15.0%	1,127	1,228	211	339	20	23	32	37

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	205	340	-40.0%	37	50	138	244	20	34	10	12
Connecticut	60	69	-13.0%	8	9	51	56	0	3	1	2
Maine	42	50	-16.0%	0	0	29	34	4	7	8	9
Massachusetts	65	163	-60.0%	12	13	46	138	6	12	0	1
New Hampshire	26	41	-37.0%	14	25	NM	4	9	11	0	0
Rhode Island	10	15	-31.0%	0	0	10	13	0	1	NM	1
Vermont	3	3	-5.3%	3	3	0	0	0	0	0	0
Middle Atlantic	641	1,318	-51.0%	206	411	388	847	20	25	28	35
New Jersey	45	99	-54.0%	0	3	44	94	0	2	0	1
New York	417	819	-49.0%	205	408	193	385	9	13	10	14
Pennsylvania	179	400	-55.0%	0	0	151	368	10	11	18	21
East North Central	747	891	-16.0%	510	571	230	305	3	4	5	11
Illinois	68	91	-26.0%	12	15	56	76	0	0	0	0
Indiana	217	229	-5.2%	215	222	0	0	0	NM	2	6
Michigan	174	173	0.7%	171	169	0	0	1	2	1	1
Ohio	198	290	-32.0%	25	67	171	220	0	1	1	3
Wisconsin	91	108	-15.0%	87	98	3	8	0	1	1	0
West North Central	648	724	-11.0%	631	704	11	17	4	2	1	2
Iowa	122	128	-4.7%	117	121	5	6	0	0	0	0
Kansas	164	158	4.1%	164	158	0	0	0	0	0	0
Minnesota	75	92	-19.0%	64	78	NM	10	4	2	1	1
Missouri	176	213	-17.0%	176	213	0	0	0	0	0	0
Nebraska	31	39	-20.0%	31	39	0	0	0	0	0	0
North Dakota	58	63	-8.3%	58	63	0	0	0	0	0	0
South Dakota	22	32	-32.0%	22	32	0	0	NM	0	0	0
South Atlantic	1,634	2,061	-21.0%	1,182	1,550	257	314	142	136	52	61
Delaware	23	35	-35.0%	1	0	21	34	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	356	510	-30.0%	329	489	14	7	0	0	13	14
Georgia	121	169	-28.0%	96	124	4	9	2	8	19	28
Maryland	155	161	-3.7%	4	4	151	154	NM	1	0	1
North Carolina	215	324	-34.0%	200	307	6	8	NM	2	8	7
South Carolina	101	141	-28.0%	93	127	2	7	NM	0	6	7
Virginia	433	517	-16.0%	229	296	59	93	139	125	6	3
West Virginia	231	205	13.0%	230	203	0	2	0	0	0	0
East South Central	327	461	-29.0%	317	444	2	8	0	0	7	9
Alabama	13	34	-63.0%	7	21	2	8	0	0	4	6
Kentucky	120	147	-18.0%	120	147	0	0	0	0	0	0
Mississippi	12	23	-48.0%	10	22	0	0	0	0	2	1
Tennessee	181	257	-29.0%	180	254	1	1	0	0	1	2
West South Central	236	249	-5.4%	184	183	48	55	0	1	4	10
Arkansas	75	74	1.9%	58	52	17	19	0	0	NM	3
Louisiana	26	44	-42.0%	26	35	0	9	0	0	0	0
Oklahoma	45	35	28.0%	43	33	0	0	0	0	2	2
Texas	90	96	-6.3%	57	63	31	27	0	1	2	5
Mountain	866	921	-5.9%	842	887	24	33	NM	0	0	0
Arizona	70	104	-33.0%	70	104	0	0	NM	0	0	0
Colorado	19	22	-15.0%	19	22	0	0	0	0	0	0
Idaho	0	0	-70.0%	0	0	0	0	0	0	0	0
Montana	18	30	-39.0%	NM	4	17	26	0	0	0	0
Nevada	13	24	-46.0%	10	20	3	4	0	0	0	0
New Mexico	606	605	0.1%	606	605	0	0	0	0	0	0
Utah	65	63	2.9%	61	60	4	3	0	0	0	0
Wyoming	76	74	3.6%	76	73	0	0	0	0	0	0
Pacific Contiguous	125	135	-7.1%	76	78	33	36	1	2	15	19
California	86	93	-7.6%	59	61	20	18	1	1	6	12
Oregon	8	14	-41.0%	8	13	0	0	NM	0	0	0
Washington	32	29	11.0%	10	3	13	18	0	0	8	7
Pacific Noncontiguous	11,069	11,920	-7.1%	9,108	9,411	1,727	2,236	22	25	212	247
Alaska	1,599	1,431	12.0%	1,537	1,361	4	4	4	7	55	59
Hawaii	9,470	10,489	-9.7%	7,571	8,051	1,723	2,232	19	18	158	189
U.S. Total	16,498	19,020	-13.0%	13,092	14,289	2,859	4,095	213	229	334	407

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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, November 2020 and November 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1	1	19.0%	0	0	0	0	0	0	1	1
New Jersey	1	1	19.0%	0	0	0	0	0	0	1	1
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	39	17	124.0%	9	11	NM	0	0	0	6	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	13	13	-0.4%	7	7	0	0	0	0	6	6
Ohio	24	0	NM	0	0	NM	0	0	0	0	0
Wisconsin	2	4	-60.0%	2	4	0	0	0	0	0	0
West North Central	1	0	--	0	0	0	0	0	0	1	0
Iowa	1	0	--	0	0	0	0	0	0	1	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	37	41	-8.1%	34	38	0	0	0	0	NM	3
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	34	38	-9.4%	34	38	0	0	0	0	0	0
Georgia	NM	3	NM	0	0	0	0	0	0	NM	3
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	118	56	113.0%	114	52	0	0	0	0	NM	4
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	114	52	121.0%	114	52	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	4	NM	0	0	0	0	0	0	NM	4
Mountain	15	15	-1.4%	0	0	15	15	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	15	-1.4%	0	0	15	15	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	211	129	63.0%	157	101	39	15	0	0	15	14

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6	12	-52.0%	0	0	0	0	0	0	6	12
New Jersey	6	7	-20.0%	0	0	0	0	0	0	6	7
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	5	-100.0%	0	0	0	0	0	0	0	5
East North Central	673	698	-3.6%	357	350	255	285	0	0	61	62
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	383	375	2.1%	322	314	0	0	0	0	61	62
Ohio	255	286	-11.0%	0	0	255	285	0	0	0	0
Wisconsin	34	37	-6.1%	34	37	0	0	0	0	0	0
West North Central	10	11	-9.8%	0	0	0	0	1	1	9	10
Iowa	10	11	-9.8%	0	0	0	0	1	1	9	10
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	540	425	27.0%	508	395	0	0	0	0	32	30
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	508	395	29.0%	508	395	0	0	0	0	0	0
Georgia	32	30	5.1%	0	0	0	0	0	0	32	30
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,253	1,234	1.5%	1,215	1,185	0	0	0	0	38	49
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,215	1,187	2.3%	1,215	1,185	0	0	0	0	0	2
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	38	47	-18.0%	0	0	0	0	0	0	38	47
Mountain	153	147	4.2%	0	0	153	147	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	153	147	4.2%	0	0	153	147	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	2,634	2,527	4.2%	2,079	1,930	408	432	1	1	147	163

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, November 2020 and November 2019 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	24,848	25,685	-3.3%	NM	63	23,731	24,469	434	446	610	707
Connecticut	12,161	12,137	0.2%	37	48	11,689	11,549	180	213	255	327
Maine	324	540	-40.0%	0	0	NM	385	13	13	144	141
Massachusetts	6,060	7,037	-14.0%	NM	12	5,725	6,719	220	199	80	107
New Hampshire	1,653	1,676	-1.4%	0	3	1,634	1,653	3	4	17	16
Rhode Island	4,649	4,294	8.3%	0	0	4,516	4,162	18	16	NM	115
Vermont	1	0	429.0%	1	0	0	0	1	0	0	0
Middle Atlantic	96,389	99,691	-3.3%	8,502	6,451	86,177	91,507	633	669	1,077	1,064
New Jersey	15,266	22,362	-32.0%	NM	95	14,848	21,934	115	149	178	183
New York	29,590	26,571	11.0%	8,373	6,353	20,490	19,460	472	453	256	306
Pennsylvania	51,532	50,758	1.5%	3	3	50,840	50,113	47	67	642	575
East North Central	74,322	88,200	-16.0%	22,481	31,103	49,401	53,569	527	613	1,913	2,915
Illinois	9,000	11,071	-19.0%	NM	964	8,292	9,479	114	154	380	474
Indiana	14,235	20,182	-29.0%	5,302	8,324	8,152	10,245	75	87	706	1,527
Michigan	14,577	20,465	-29.0%	4,549	7,978	9,535	11,922	225	249	268	315
Ohio	27,815	25,015	11.0%	4,562	3,232	23,022	21,601	60	67	171	115
Wisconsin	8,695	11,467	-24.0%	7,854	10,606	400	322	52	56	388	483
West North Central	12,458	14,723	-15.0%	10,333	12,169	1,651	1,991	122	143	351	419
Iowa	2,003	3,327	-40.0%	1,811	3,018	0	0	47	56	145	253
Kansas	1,467	1,577	-6.9%	1,358	1,498	0	0	0	0	109	79
Minnesota	3,945	5,967	-34.0%	2,761	3,919	1,091	1,975	36	31	56	43
Missouri	3,326	2,140	55.0%	2,719	2,054	560	16	35	56	11	14
Nebraska	424	365	16.0%	420	364	0	0	4	1	0	0
North Dakota	944	855	10.0%	914	836	0	0	0	0	30	19
South Dakota	NM	492	NM	NM	481	0	0	0	0	0	11
South Atlantic	201,034	196,786	2.2%	166,699	156,405	31,162	36,784	905	920	2,267	2,677
Delaware	1,784	1,901	-6.2%	35	5	1,457	1,398	0	0	292	498
District of Columbia	123	124	-1.6%	0	0	0	0	123	124	0	0
Florida	98,295	88,317	11.0%	94,236	84,678	3,483	2,946	13	9	562	683
Georgia	32,762	34,822	-5.9%	25,410	27,106	6,994	7,339	0	0	358	377
Maryland	7,430	6,569	13.0%	1,570	682	5,161	5,210	680	660	19	17
North Carolina	20,978	23,540	-11.0%	16,907	18,173	3,903	5,181	89	114	78	71
South Carolina	12,074	12,704	-5.0%	11,545	11,539	444	1,073	0	0	84	93
Virginia	25,514	27,485	-7.2%	16,915	13,766	7,979	12,967	0	13	619	739
West Virginia	2,075	1,324	57.0%	81	454	1,740	671	0	0	254	199
East South Central	64,919	77,247	-16.0%	48,826	55,716	14,414	19,517	84	89	1,595	1,925
Alabama	23,027	29,146	-21.0%	8,324	9,282	14,143	18,985	0	0	561	880
Kentucky	7,875	9,688	-19.0%	7,547	9,082	250	521	0	0	78	86
Mississippi	25,610	27,097	-5.5%	25,361	26,858	12	2	0	0	237	237
Tennessee	8,407	11,316	-26.0%	7,594	10,496	9	9	84	89	720	722
West South Central	176,679	193,126	-8.5%	63,179	70,271	80,159	86,457	323	307	33,018	36,090
Arkansas	7,642	10,270	-26.0%	7,447	10,094	65	0	NM	32	93	144
Louisiana	38,609	33,034	17.0%	23,649	16,180	1,869	2,779	74	50	13,018	14,025
Oklahoma	15,491	21,434	-28.0%	8,245	15,945	6,863	5,177	0	0	383	311
Texas	114,937	128,388	-10.0%	23,838	28,052	71,362	78,502	213	225	19,524	21,609
Mountain	65,346	68,131	-4.1%	52,356	55,435	11,888	11,470	182	171	921	1,055
Arizona	27,981	25,177	11.0%	21,777	20,103	6,158	5,026	46	47	0	0
Colorado	9,562	10,944	-13.0%	7,825	8,907	1,691	2,002	0	6	46	29
Idaho	2,549	3,494	-27.0%	1,693	2,237	785	1,187	14	14	57	55
Montana	316	463	-32.0%	261	328	53	131	0	0	2	4
Nevada	12,276	14,640	-16.0%	10,831	13,033	1,296	1,305	20	19	129	284
New Mexico	7,246	7,023	3.2%	5,300	5,210	1,905	1,776	NM	37	0	0
Utah	4,709	5,673	-17.0%	4,333	5,293	0	43	62	48	315	289
Wyoming	707	718	-1.5%	336	323	0	1	0	0	371	394
Pacific Contiguous	72,138	80,891	-11.0%	28,049	33,367	37,179	40,447	696	894	6,214	6,183
California	56,011	60,301	-7.1%	18,860	21,956	30,673	31,678	677	875	5,800	5,792
Oregon	10,537	12,048	-13.0%	5,231	5,173	5,240	6,804	16	19	50	53
Washington	5,590	8,543	-35.0%	3,957	6,239	1,266	1,966	2	0	365	338
Pacific Noncontiguous	1,429	2,065	-31.0%	1,404	2,042	0	0	0	0	26	23
Alaska	1,429	2,065	-31.0%	1,404	2,042	0	0	0	0	26	23
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	789,561	846,545	-6.7%	401,900	423,023	335,764	366,212	3,906	4,253	47,991	53,057

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	330,844	320,226	3.3%	2,335	1,377	315,723	305,271	4,976	5,340	7,810	8,239
Connecticut	147,882	133,973	10.0%	285	454	142,298	127,844	2,034	2,251	3,264	3,425
Maine	11,382	10,900	4.4%	0	0	9,223	8,718	142	136	2,016	2,046
Massachusetts	92,513	101,288	-8.7%	1,827	849	87,062	96,518	2,536	2,688	1,089	1,234
New Hampshire	25,490	23,726	7.4%	210	64	25,080	23,446	37	44	163	173
Rhode Island	53,559	50,323	6.4%	0	0	52,060	48,745	223	216	1,277	1,362
Vermont	18	16	16.0%	13	11	0	0	5	4	0	0
Middle Atlantic	1,331,900	1,205,144	11.0%	93,697	81,646	1,218,236	1,102,297	7,387	8,052	12,580	13,149
New Jersey	202,038	255,896	-21.0%	1,421	1,490	197,205	250,757	1,272	1,585	2,140	2,063
New York	374,768	335,878	12.0%	92,234	80,118	273,678	246,666	5,540	5,746	3,317	3,347
Pennsylvania	755,094	613,370	23.0%	42	38	747,354	604,873	575	720	7,123	7,739
East North Central	1,125,301	1,063,089	5.9%	397,545	370,090	694,434	658,592	6,731	6,997	26,590	27,411
Illinois	186,524	156,424	19.0%	20,520	10,700	160,842	140,531	1,575	1,656	3,587	3,538
Indiana	212,653	208,124	2.2%	97,866	91,270	100,967	101,439	891	947	12,930	14,468
Michigan	241,526	232,629	3.8%	92,796	90,732	142,645	135,799	2,773	2,911	3,312	3,187
Ohio	341,328	331,394	3.0%	58,564	58,062	280,289	271,064	988	1,010	1,488	1,258
Wisconsin	143,271	134,518	6.5%	127,800	119,327	9,692	9,758	505	474	5,274	4,959
West North Central	241,643	240,520	0.5%	200,331	199,483	36,161	35,679	1,610	1,637	3,540	3,722
Iowa	42,189	44,817	-5.9%	39,928	41,855	NM	0	545	566	1,713	2,396
Kansas	25,977	27,112	-4.2%	24,995	26,653	0	0	0	0	981	459
Minnesota	75,060	77,940	-3.7%	54,820	59,815	19,327	17,186	421	409	492	530
Missouri	61,233	58,262	5.1%	43,672	39,039	16,831	18,493	605	625	125	104
Nebraska	13,602	11,308	20.0%	13,562	11,272	0	0	40	36	0	0
North Dakota	13,806	12,656	9.1%	13,577	12,543	0	0	0	0	229	112
South Dakota	9,776	8,426	16.0%	9,776	8,306	0	0	0	0	0	120
South Atlantic	2,684,931	2,604,500	3.1%	2,197,726	2,125,127	448,475	440,186	10,630	11,952	28,098	27,235
Delaware	31,502	32,442	-2.9%	276	301	26,487	26,824	0	0	4,739	5,317
District of Columbia	1,376	1,380	-0.3%	0	0	0	0	1,376	1,380	0	0
Florida	1,273,786	1,236,282	3.0%	1,210,603	1,174,545	55,305	53,733	124	96	7,754	7,908
Georgia	397,591	393,842	1.0%	301,960	298,181	91,867	92,486	0	1	3,764	3,174
Maryland	96,979	98,659	-1.7%	19,468	22,351	69,174	66,940	8,138	9,073	199	294
North Carolina	280,359	281,790	-0.5%	224,575	222,099	54,022	57,641	950	1,323	812	727
South Carolina	167,355	164,612	1.7%	161,209	155,274	5,033	8,550	0	3	1,113	784
Virginia	413,564	376,968	9.7%	278,556	248,212	127,658	121,960	43	75	7,308	6,722
West Virginia	22,419	18,524	21.0%	1,080	4,164	18,930	12,051	0	0	2,410	2,309
East South Central	923,515	942,022	-2.0%	674,227	687,229	230,363	233,816	956	873	17,969	20,104
Alabama	359,603	386,427	-6.9%	128,760	147,837	224,459	229,573	0	0	6,384	9,016
Kentucky	98,394	104,371	-5.7%	91,834	99,436	5,705	4,061	0	0	855	874
Mississippi	357,473	333,444	7.2%	354,810	330,832	59	48	0	0	2,603	2,564
Tennessee	108,045	117,780	-8.3%	98,823	109,124	140	134	956	873	8,127	7,650
West South Central	2,634,191	2,665,080	-1.2%	1,054,213	1,037,994	1,204,037	1,237,065	4,268	4,438	371,673	385,583
Arkansas	119,036	145,461	-18.0%	111,623	137,753	5,937	5,823	412	445	1,063	1,440
Louisiana	475,413	467,149	1.8%	310,774	282,078	26,562	35,848	761	651	137,316	148,573
Oklahoma	319,507	312,073	2.4%	213,158	208,709	102,699	100,130	0	0	3,650	3,234
Texas	1,720,236	1,740,397	-1.2%	418,659	409,454	1,068,838	1,095,265	3,095	3,342	229,645	232,337
Mountain	883,876	819,048	7.9%	716,559	663,995	153,778	142,210	1,968	2,051	11,572	10,792
Arizona	360,229	325,562	11.0%	281,734	251,580	77,939	73,432	556	550	0	0
Colorado	132,857	117,030	14.0%	109,344	97,927	23,106	18,761	32	16	374	327
Idaho	28,932	28,403	1.9%	17,525	16,735	10,660	10,983	156	153	591	532
Montana	4,049	5,046	-20.0%	3,594	3,730	438	1,304	0	0	NM	12
Nevada	185,746	175,525	5.8%	168,867	158,973	14,030	13,833	230	241	2,618	2,478
New Mexico	97,567	95,137	2.6%	69,668	71,589	27,306	23,013	460	482	133	53
Utah	64,466	65,976	-2.3%	60,236	60,578	283	869	533	609	3,414	3,920
Wyoming	10,030	6,370	57.0%	5,591	2,884	15	14	0	0	4,423	3,472
Pacific Contiguous	810,217	779,062	4.0%	319,509	314,820	415,783	388,390	8,486	9,521	66,439	66,331
California	602,551	554,621	8.6%	197,746	189,170	334,477	293,898	8,247	9,283	62,082	62,269
Oregon	117,851	128,525	-8.3%	59,190	61,849	57,844	66,038	201	208	617	430
Washington	89,815	95,917	-6.4%	62,573	63,800	23,462	28,454	38	30	3,741	3,632
Pacific Noncontiguous	22,498	22,582	-0.4%	22,257	22,324	0	0	0	0	241	259
Alaska	22,498	22,582	-0.4%	22,257	22,324	0	0	0	0	241	259
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	10,988,917	10,661,274	3.1%	5,678,402	5,504,084	4,716,990	4,543,505	47,013	50,860	546,512	562,824

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	731	1,093	-33.0%	82	124	628	946	21	22	0	0
Connecticut	NM	15	NM	0	0	NM	15	0	0	0	0
Maine	51	57	-10.0%	0	0	51	57	0	0	0	0
Massachusetts	279	310	-9.7%	0	0	279	310	0	0	0	0
New Hampshire	103	175	-41.0%	0	0	82	153	21	22	0	0
Rhode Island	184	389	-53.0%	0	0	184	389	0	0	0	0
Vermont	100	147	-32.0%	82	124	NM	23	0	0	0	0
Middle Atlantic	2,674	3,983	-33.0%	0	0	2,549	3,834	63	55	61	94
New Jersey	301	432	-30.0%	0	0	283	417	NM	15	0	0
New York	1,190	1,476	-19.0%	0	0	1,190	1,476	0	0	0	0
Pennsylvania	1,182	2,075	-43.0%	0	0	1,076	1,941	NM	40	61	94
East North Central	4,888	4,789	2.1%	840	797	4,020	3,967	8	4	20	21
Illinois	853	879	-3.0%	240	240	613	640	0	0	0	0
Indiana	697	656	6.2%	600	557	98	99	0	0	0	0
Michigan	1,729	1,619	6.8%	0	0	1,729	1,619	0	0	0	0
Ohio	813	868	-6.3%	0	0	813	868	0	0	0	0
Wisconsin	795	766	3.7%	0	0	767	741	8	4	20	21
West North Central	713	730	-2.2%	233	251	481	479	0	0	0	0
Iowa	189	183	3.2%	0	0	189	183	0	0	0	0
Kansas	118	116	1.9%	0	0	118	116	0	0	0	0
Minnesota	135	153	-11.0%	48	60	87	92	0	0	0	0
Missouri	142	157	-9.7%	56	70	86	88	0	0	0	0
Nebraska	129	121	6.9%	129	121	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,824	3,936	-2.8%	316	298	3,300	3,399	87	135	120	104
Delaware	98	104	-5.7%	0	0	90	97	0	0	NM	7
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	771	849	-9.1%	146	123	625	726	0	0	0	0
Georgia	476	478	-0.3%	0	0	470	470	0	0	6	8
Maryland	183	179	1.8%	0	0	111	117	71	62	0	0
North Carolina	851	924	-7.9%	0	0	851	865	0	59	0	0
South Carolina	288	278	3.3%	163	170	NM	19	0	0	106	90
Virginia	1,157	1,124	2.9%	7	6	1,133	1,104	NM	14	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	422	464	-9.1%	165	182	257	283	0	0	0	0
Alabama	85	86	-1.4%	0	0	85	86	0	0	0	0
Kentucky	176	222	-21.0%	165	182	11	41	0	0	0	0
Mississippi	NM	19	NM	0	0	NM	19	0	0	0	0
Tennessee	140	137	2.5%	0	0	140	137	0	0	0	0
West South Central	906	837	8.2%	0	0	906	837	0	0	0	0
Arkansas	128	112	14.0%	0	0	128	112	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	41	35	19.0%	0	0	41	35	0	0	0	0
Texas	737	690	6.7%	0	0	737	690	0	0	0	0
Mountain	492	551	-11.0%	NM	27	418	470	53	54	0	0
Arizona	63	61	3.2%	0	0	63	61	0	0	0	0
Colorado	81	105	-23.0%	0	0	81	105	0	0	0	0
Idaho	71	83	-14.0%	NM	27	NM	NM	42	46	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	142	141	0.9%	0	0	142	141	0	0	0	0
New Mexico	NM	34	NM	0	0	NM	34	0	0	0	0
Utah	105	127	-17.0%	0	0	95	119	10	8	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,445	4,269	4.1%	121	128	3,146	3,023	1,177	1,089	0	29
California	3,935	3,716	5.9%	NM	9	2,781	2,617	1,146	1,061	0	29
Oregon	431	469	-8.3%	114	120	286	322	NM	28	0	0
Washington	79	84	-6.3%	0	0	79	84	0	0	0	0
Pacific Noncontiguous	63	59	6.5%	0	0	0	0	63	59	0	0
Alaska	63	59	6.5%	0	0	0	0	63	59	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	19,157	20,712	-7.5%	1,779	1,807	15,704	17,237	1,473	1,419	201	248

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	10,297	11,243	-8.4%	961	1,290	9,147	9,736	189	217	0	0
Connecticut	159	155	2.4%	0	0	159	155	0	0	0	0
Maine	610	626	-2.6%	0	0	610	626	0	0	0	0
Massachusetts	3,295	3,306	-0.3%	0	0	3,295	3,306	0	0	0	0
New Hampshire	1,159	1,809	-36.0%	0	0	970	1,592	189	217	0	0
Rhode Island	3,899	3,821	2.1%	0	0	3,899	3,821	0	0	0	0
Vermont	1,174	1,526	-23.0%	961	1,290	213	235	0	0	0	0
Middle Atlantic	37,786	44,319	-15.0%	0	0	36,492	42,700	549	614	745	1,005
New Jersey	4,426	6,169	-28.0%	0	0	4,268	6,003	158	166	0	0
New York	14,570	14,728	-1.1%	0	0	14,570	14,728	0	0	0	0
Pennsylvania	18,790	23,422	-20.0%	0	0	17,654	21,969	391	447	745	1,005
East North Central	56,747	56,648	0.2%	9,821	9,470	46,441	46,640	271	309	214	228
Illinois	10,024	10,438	-4.0%	2,829	2,918	7,195	7,520	0	0	0	0
Indiana	8,047	7,610	5.7%	6,992	6,552	1,055	1,058	0	0	0	0
Michigan	19,917	19,334	3.0%	0	0	19,917	19,334	0	0	0	0
Ohio	9,563	10,050	-4.9%	0	0	9,563	10,050	0	0	0	0
Wisconsin	9,197	9,215	-0.2%	0	0	8,712	8,678	271	309	214	228
West North Central	8,449	8,009	5.5%	2,853	2,777	5,596	5,231	0	0	0	0
Iowa	2,201	2,032	8.3%	0	0	2,201	2,032	0	0	0	0
Kansas	1,372	1,282	7.0%	0	0	1,372	1,282	0	0	0	0
Minnesota	1,638	1,566	4.6%	617	620	1,020	946	0	0	0	0
Missouri	1,738	1,740	-0.1%	735	769	1,003	971	0	0	0	0
Nebraska	1,501	1,389	8.1%	1,501	1,389	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	44,941	45,823	-1.9%	3,792	3,458	39,087	39,578	868	1,556	1,195	1,232
Delaware	1,153	1,189	-3.0%	0	0	1,069	1,111	0	0	84	78
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,111	9,651	-5.6%	1,738	1,443	7,372	8,208	0	0	0	0
Georgia	5,653	5,553	1.8%	0	0	5,556	5,425	0	0	96	128
Maryland	2,028	2,051	-1.1%	0	0	1,311	1,341	717	710	0	0
North Carolina	10,096	10,424	-3.1%	0	0	10,096	9,752	0	671	0	0
South Carolina	3,231	3,182	1.5%	1,995	1,944	222	213	0	0	1,014	1,026
Virginia	13,669	13,773	-0.8%	58	71	13,461	13,529	150	174	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4,974	4,911	1.3%	1,939	2,019	3,035	2,892	0	0	0	0
Alabama	982	954	2.9%	0	0	982	954	0	0	0	0
Kentucky	2,104	2,219	-5.2%	1,939	2,019	165	200	0	0	0	0
Mississippi	247	215	14.0%	0	0	247	215	0	0	0	0
Tennessee	1,642	1,523	7.8%	0	0	1,642	1,523	0	0	0	0
West South Central	10,199	10,618	-4.0%	0	0	10,199	10,429	0	189	0	0
Arkansas	1,478	1,338	10.0%	0	0	1,478	1,338	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	479	412	16.0%	0	0	479	412	0	0	0	0
Texas	8,242	8,868	-7.1%	0	0	8,242	8,679	0	189	0	0
Mountain	5,897	6,184	-4.6%	262	303	4,943	5,220	692	660	0	0
Arizona	742	682	8.9%	0	0	742	682	0	0	0	0
Colorado	937	1,171	-20.0%	0	0	937	1,171	0	0	0	0
Idaho	756	856	-12.0%	262	303	91	101	403	451	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,677	1,566	7.1%	0	0	1,677	1,566	0	0	0	0
New Mexico	359	374	-3.8%	0	0	359	374	0	0	0	0
Utah	1,425	1,535	-7.2%	0	0	1,136	1,326	289	209	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	49,040	46,717	5.0%	1,413	1,466	35,573	33,727	12,054	11,194	0	329
California	43,045	40,619	6.0%	87	98	31,197	29,318	11,761	10,873	0	329
Oregon	5,059	5,136	-1.5%	1,326	1,367	3,440	3,447	293	321	0	0
Washington	937	961	-2.6%	0	0	937	961	0	0	0	0
Pacific Noncontiguous	707	653	8.2%	0	0	0	0	707	653	0	0
Alaska	707	653	8.2%	0	0	0	0	707	653	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	229,036	235,125	-2.6%	21,040	20,784	190,514	196,154	15,329	15,392	2,153	2,795

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	269	294	-8.6%	0	0	259	283	10	12	0	0
Connecticut	94	105	-11.0%	0	0	94	105	0	0	0	0
Maine	17	20	-16.0%	0	0	7	8	10	12	0	0
Massachusetts	149	159	-6.2%	0	0	149	159	0	0	0	0
New Hampshire	9	10	-10.0%	0	0	9	10	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	413	424	-2.6%	0	0	323	330	90	95	0	0
New Jersey	99	107	-8.1%	0	0	70	83	28	25	0	0
New York	156	169	-7.7%	0	0	116	121	40	49	0	0
Pennsylvania	158	148	7.3%	0	0	137	127	21	21	0	0
East North Central	14	15	-6.5%	3	3	0	0	11	12	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	2	-15.0%	0	0	0	0	2	2	0	0
Michigan	10	10	-2.7%	0	0	0	0	10	10	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-14.0%	3	3	0	0	0	0	0	0
West North Central	27	43	-38.0%	22	22	5	20	0	1	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	27	43	-38.0%	22	22	5	20	0	1	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	427	410	4.0%	0	0	395	380	32	30	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	283	276	2.7%	0	0	283	276	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	48	49	-0.3%	0	0	48	49	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	95	86	11.0%	0	0	63	56	32	30	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	1	-40.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	-40.0%	0	0	0	0	0	0	1	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	51	49	4.5%	0	0	51	49	0	0	0	0
California	31	29	6.3%	0	0	31	29	0	0	0	0
Oregon	9	10	-5.4%	0	0	9	10	0	0	0	0
Washington	11	10	8.9%	0	0	11	10	0	0	0	0
Pacific Noncontiguous	32	34	-5.0%	0	0	0	0	32	34	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	32	34	-5.0%	0	0	0	0	32	34	0	0
U.S. Total	1,234	1,270	-2.9%	24	25	1,033	1,062	175	183	1	1

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	2,994	3,094	-3.2%	0	0	2,882	2,965	112	128	0	0
Connecticut	1,064	1,057	0.7%	0	0	1,064	1,057	0	0	0	0
Maine	210	228	-7.8%	0	0	99	99	112	128	0	0
Massachusetts	1,616	1,703	-5.1%	0	0	1,616	1,703	0	0	0	0
New Hampshire	103	106	-2.5%	0	0	103	106	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	4,610	4,649	-0.8%	0	0	3,649	3,608	961	1,041	0	0
New Jersey	1,171	1,166	0.5%	0	0	866	866	306	300	0	0
New York	1,703	1,785	-4.6%	0	0	1,269	1,263	434	522	0	0
Pennsylvania	1,736	1,698	2.2%	0	0	1,514	1,480	222	219	0	0
East North Central	151	165	-8.6%	29	33	0	0	122	132	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	18	17	9.9%	0	0	0	0	18	17	0	0
Michigan	104	116	-10.0%	0	0	0	0	104	116	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	29	33	-12.0%	29	33	0	0	0	0	0	0
West North Central	410	446	-8.0%	229	245	182	191	0	10	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	410	446	-8.0%	229	245	182	191	0	10	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,792	4,852	-1.2%	0	0	4,408	4,469	384	384	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,248	3,249	0.0%	0	0	3,248	3,249	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	500	564	-11.0%	0	0	500	564	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	1,044	1,039	0.5%	0	0	661	656	384	384	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	10	9	7.0%	0	0	0	0	0	0	10	9
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	10	9	7.0%	0	0	0	0	0	0	10	9
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	585	596	-1.7%	0	0	585	596	0	0	0	0
California	345	356	-3.0%	0	0	345	356	0	0	0	0
Oregon	103	104	-0.6%	0	0	103	104	0	0	0	0
Washington	137	135	0.9%	0	0	137	135	0	0	0	0
Pacific Noncontiguous	388	414	-6.4%	0	0	0	0	388	414	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	388	414	-6.4%	0	0	0	0	388	414	0	0
U.S. Total	13,940	14,225	-2.0%	257	278	11,707	11,830	1,966	2,109	10	9

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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, November 2020 and November 2019 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	2,576	3,633	-29.0%	275	449	1,869	2,760	1	1	431	423
Connecticut	200	266	-25.0%	0	0	200	266	0	0	0	0
Maine	1,053	1,623	-35.0%	0	0	622	1,200	0	0	431	423
Massachusetts	NM	121	NM	0	0	NM	121	0	0	0	0
New Hampshire	800	1,362	-41.0%	0	189	800	1,172	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	393	261	51.0%	275	260	NM	0	1	1	0	0
Middle Atlantic	649	721	-9.9%	0	0	431	508	0	0	218	212
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	505	595	-15.0%	0	0	431	508	0	0	NM	86
Pennsylvania	144	126	15.0%	0	0	0	0	0	0	144	126
East North Central	1,498	1,748	-14.0%	272	448	666	744	0	0	560	556
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	931	975	-4.5%	0	0	659	734	0	0	272	240
Ohio	102	102	-0.3%	0	0	7	10	0	0	95	93
Wisconsin	465	671	-31.0%	272	448	0	0	0	0	193	223
West North Central	356	446	-20.0%	0	75	NM	112	42	26	218	233
Iowa	0	6	-100.0%	0	0	0	0	0	6	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	331	420	-21.0%	0	75	NM	112	16	0	218	233
Missouri	25	20	27.0%	0	0	0	0	25	20	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,356	8,857	17.0%	1,266	745	3,668	2,847	7	8	5,415	5,256
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	1,411	933	51.0%	502	18	159	186	0	0	750	729
Georgia	4,112	3,248	27.0%	0	0	1,937	1,076	0	0	2,175	2,172
Maryland	7	8	-12.0%	0	0	0	0	7	8	0	0
North Carolina	1,316	1,329	-1.0%	0	0	771	793	0	0	545	536
South Carolina	1,418	1,423	-0.4%	0	0	648	680	0	0	770	743
Virginia	2,093	1,917	9.2%	764	727	NM	112	0	0	1,176	1,077
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,708	3,148	-14.0%	0	0	0	0	0	0	2,708	3,148
Alabama	1,773	2,094	-15.0%	0	0	0	0	0	0	1,773	2,094
Kentucky	NM	141	NM	0	0	0	0	0	0	NM	141
Mississippi	578	599	-3.5%	0	0	0	0	0	0	578	599
Tennessee	249	315	-21.0%	0	0	0	0	0	0	249	315
West South Central	2,083	2,070	0.6%	0	0	0	0	0	0	2,083	2,070
Arkansas	408	373	9.6%	0	0	0	0	0	0	408	373
Louisiana	1,066	1,077	-0.9%	0	0	0	0	0	0	1,066	1,077
Oklahoma	166	151	9.5%	0	0	0	0	0	0	166	151
Texas	443	470	-5.8%	0	0	0	0	0	0	443	470
Mountain	554	578	-4.0%	0	0	411	415	0	0	144	163
Arizona	257	278	-7.6%	0	0	257	278	0	0	0	0
Colorado	128	109	18.0%	0	0	128	109	0	0	0	0
Idaho	153	178	-14.0%	0	0	26	28	0	0	127	150
Montana	17	13	28.0%	0	0	0	0	0	0	17	13
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	4,929	5,764	-14.0%	304	476	2,679	3,666	0	0	1,945	1,622
California	3,467	3,912	-11.0%	0	0	2,491	3,307	0	0	976	604
Oregon	552	718	-23.0%	0	0	188	359	0	0	363	360
Washington	911	1,134	-20.0%	304	476	0	0	0	0	606	658
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	25,710	26,964	-4.7%	2,118	2,194	9,821	11,052	49	35	13,722	13,684

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	30,921	38,988	-21.0%	3,439	6,403	22,415	27,341	6	10	5,061	5,235
Connecticut	2,371	2,802	-15.0%	0	0	2,371	2,802	0	0	0	0
Maine	12,638	15,044	-16.0%	0	0	7,577	9,810	0	0	5,061	5,235
Massachusetts	1,573	1,702	-7.5%	0	0	1,573	1,702	0	0	0	0
New Hampshire	9,911	14,718	-33.0%	388	3,356	9,524	11,362	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	4,428	4,723	-6.2%	3,052	3,047	1,370	1,667	6	10	0	0
Middle Atlantic	7,545	7,725	-2.3%	0	0	5,219	5,231	0	0	2,326	2,494
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	5,983	6,103	-2.0%	0	0	5,219	5,230	0	0	764	873
Pennsylvania	1,562	1,623	-3.7%	0	0	0	1	0	0	1,562	1,621
East North Central	17,805	21,287	-16.0%	3,798	4,510	8,190	10,619	0	0	5,817	6,157
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	10,868	13,528	-20.0%	0	0	8,102	10,497	0	0	2,766	3,032
Ohio	1,069	1,038	3.0%	0	0	88	122	0	0	981	916
Wisconsin	5,867	6,721	-13.0%	3,798	4,510	0	0	0	0	2,070	2,210
West North Central	4,368	4,526	-3.5%	344	397	1,043	1,066	417	410	2,563	2,654
Iowa	43	60	-29.0%	0	0	0	0	43	60	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	4,104	4,236	-3.1%	344	397	1,043	1,066	153	120	2,563	2,654
Missouri	221	230	-3.6%	0	0	0	0	221	230	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	109,129	111,541	-2.2%	16,489	21,756	35,056	30,727	117	126	57,467	58,931
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	14,847	17,835	-17.0%	5,155	7,433	1,745	2,292	0	0	7,946	8,110
Georgia	41,299	34,468	20.0%	0	0	17,590	10,156	0	0	23,709	24,312
Maryland	117	383	-70.0%	0	0	0	0	117	126	0	257
North Carolina	12,840	13,807	-7.0%	0	0	7,079	8,219	0	0	5,761	5,587
South Carolina	15,154	15,940	-4.9%	0	0	6,710	7,246	0	0	8,444	8,693
Virginia	24,873	29,108	-15.0%	11,334	14,323	1,932	2,814	0	0	11,607	11,972
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	30,415	31,179	-2.5%	0	0	0	0	0	0	30,415	31,179
Alabama	20,188	20,226	-0.2%	0	0	0	0	0	0	20,188	20,226
Kentucky	1,176	1,179	-0.2%	0	0	0	0	0	0	1,176	1,179
Mississippi	5,921	5,978	-1.0%	0	0	0	0	0	0	5,921	5,978
Tennessee	3,130	3,797	-18.0%	0	0	0	0	0	0	3,130	3,797
West South Central	22,875	25,975	-12.0%	904	1,466	0	0	0	0	21,971	24,509
Arkansas	4,168	5,990	-30.0%	0	0	0	0	0	0	4,168	5,990
Louisiana	11,284	12,051	-6.4%	0	0	0	0	0	0	11,284	12,051
Oklahoma	1,754	1,487	18.0%	0	0	0	0	0	0	1,754	1,487
Texas	5,669	6,447	-12.0%	904	1,466	0	0	0	0	4,765	4,981
Mountain	6,078	6,225	-2.4%	0	0	4,397	4,545	0	0	1,680	1,680
Arizona	2,853	3,094	-7.8%	0	0	2,853	3,094	0	0	0	0
Colorado	1,243	1,159	7.2%	0	0	1,243	1,159	0	0	0	0
Idaho	1,754	1,757	-0.2%	0	0	302	292	0	0	1,452	1,465
Montana	228	215	6.3%	0	0	0	0	0	0	228	215
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	58,158	61,432	-5.3%	3,509	3,957	35,162	38,300	0	0	19,486	19,175
California	42,049	44,187	-4.8%	0	0	32,932	35,542	0	0	9,117	8,645
Oregon	6,048	6,526	-7.3%	0	0	2,230	2,758	0	0	3,817	3,768
Washington	10,061	10,719	-6.1%	3,509	3,957	0	0	0	0	6,551	6,762
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	287,293	308,879	-7.0%	28,484	38,489	111,483	117,829	541	546	146,785	152,014

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

Chapter 3

Fossil-Fuel Stocks for Electricity Generation

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

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2010	174,917	34,841	1,019	143,744	23,934	850	31,173	10,908	168
2011	172,387	33,742	508	142,103	24,544	404	30,284	9,198	104
2012	185,116	30,862	495	150,942	22,513	414	34,174	8,349	81
2013	147,884	30,387	390	120,792	21,208	303	27,092	9,179	86
2014	151,548	32,322	827	116,684	21,304	686	34,864	11,018	142
2015	195,548	31,694	1,340	153,226	20,253	1,163	42,322	11,441	177
2016	162,009	30,593	845	130,885	19,767	603	31,124	10,827	241
2017	137,687	28,089	864	114,782	19,047	692	22,905	9,041	171
2018	102,793	25,977	539	84,728	16,553	521	18,065	9,423	19
2019	128,180	25,960	471	104,274	16,435	428	23,906	9,525	43
Year 2018, End of Month Stocks									
January	123,235	25,853	720	103,761	17,653	579	19,474	8,200	141
February	120,526	26,831	692	101,532	18,213	561	18,994	8,618	131
March	126,008	26,763	736	106,377	18,301	612	19,631	8,462	124
April	128,571	26,608	731	107,870	18,236	647	20,701	8,372	84
May	127,982	26,794	709	107,176	18,315	648	20,806	8,479	61
June	121,041	26,494	591	101,498	17,964	526	19,544	8,530	65
July	110,348	25,912	668	93,099	17,412	614	17,249	8,500	53
August	103,744	24,815	625	87,944	16,602	580	15,800	8,213	45
Sept	100,384	24,595	608	84,696	16,378	557	15,688	8,217	51
October	104,855	24,591	541	87,394	16,183	511	17,461	8,409	30
November	104,075	24,720	557	86,252	16,114	540	17,823	8,606	16
December	102,793	25,977	539	84,728	16,553	521	18,065	9,423	19
Year 2019, End of Month Stocks									
January	99,147	25,791	528	81,553	16,464	518	17,594	9,327	9
February	98,639	26,154	505	81,173	16,781	494	17,466	9,373	11
March	96,933	26,202	503	79,485	16,870	482	17,449	9,332	21
April	108,089	26,330	513	88,215	16,994	500	19,873	9,336	13
May	115,712	26,407	444	93,476	17,063	434	22,237	9,344	10
June	116,876	26,185	388	93,767	16,862	381	23,108	9,323	7
July	110,672	25,827	354	89,504	16,598	347	21,168	9,230	8
August	110,278	25,208	380	89,054	16,128	372	21,224	9,080	8
Sept	110,626	25,448	292	89,630	16,352	281	20,995	9,096	11
October	118,574	25,413	292	96,205	16,359	277	22,369	9,055	16
November	122,364	25,720	464	99,470	16,480	407	22,894	9,240	57
December	128,180	25,960	471	104,274	16,435	428	23,906	9,525	43
Year 2020, End of Month Stocks									
January	134,364	25,125	508	108,457	16,015	503	25,907	9,110	5
February	139,299	25,000	600	112,181	15,956	584	27,118	9,045	16
March	145,238	25,336	541	116,516	16,285	527	28,722	9,051	14
April	151,744	25,401	541	122,175	16,289	525	29,569	9,111	17
May	154,058	25,552	529	123,768	16,309	518	30,290	9,243	11
June	150,427	25,573	480	120,432	16,180	471	29,995	9,393	9
July	137,907	26,258	445	110,524	16,265	426	27,383	9,993	19
August	129,688	25,245	407	104,205	16,021	400	25,483	9,223	6
Sept	129,102	25,744	415	103,184	15,789	400	25,918	9,955	15
October	133,398	25,736	455	106,665	15,832	434	26,733	9,904	21
November	136,191	25,406	473	109,093	15,613	452	27,098	9,793	21

Notes: See Glossary for definitions. Values for 2019 and prior years are final. Values for 2020 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, November 2020 and 2019

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	November 2020	November 2019	Percentage Change	November 2020	November 2019	Percentage Change	November 2020	November 2019	Percentage Change
New England	W	453	W	3,657	3,321	10.1%	0	0	--
Connecticut	W	W	W	1,265	1,193	6.0%	0	0	--
Maine	0	0	--	317	226	40.3%	0	0	--
Massachusetts	0	0	--	1,441	1,317	9.5%	0	0	--
New Hampshire	W	W	W	390	349	11.6%	0	0	--
Rhode Island	0	0	--	217	197	10.2%	0	0	--
Vermont	0	0	--	26	39	-32.6%	0	0	--
Middle Atlantic	4,152	4,528	-8.3%	5,061	5,540	-8.6%	0	0	--
New Jersey	W	W	W	747	635	17.6%	0	0	--
New York	0	W	W	2,952	3,521	-16.2%	0	0	--
Pennsylvania	W	4,394	W	1,362	1,383	-1.6%	0	0	--
East North Central	32,691	27,016	21.0%	1,611	1,103	46.1%	W	122	W
Illinois	6,586	3,922	67.9%	72	74	-2.6%	0	0	--
Indiana	10,798	8,246	30.9%	106	81	31.5%	0	W	W
Michigan	4,746	4,970	-4.5%	254	271	-5.9%	W	W	W
Ohio	7,048	6,309	11.7%	467	489	-4.6%	0	W	W
Wisconsin	3,513	3,568	-1.6%	711	188	278.1%	W	W	W
West North Central	26,572	21,936	21.1%	776	832	-6.7%	0	0	--
Iowa	7,352	4,385	67.7%	109	129	-15.0%	0	0	--
Kansas	3,595	3,145	14.3%	130	109	19.2%	0	0	--
Minnesota	3,012	3,786	-20.4%	97	107	-9.4%	0	0	--
Missouri	7,866	6,526	20.5%	292	315	-7.3%	0	0	--
Nebraska	2,986	2,595	15.1%	76	98	-21.7%	0	0	--
North Dakota	W	W	W	31	26	21.4%	0	0	--
South Dakota	W	W	W	41	50	-17.5%	0	0	--
South Atlantic	21,240	22,143	-4.1%	10,350	10,513	-1.6%	W	W	W
Delaware	W	W	W	514	518	-0.8%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	1,945	2,832	-31.3%	3,748	3,888	-3.6%	W	W	W
Georgia	W	4,829	W	929	828	12.2%	0	0	--
Maryland	1,431	1,610	-11.1%	683	712	-4.1%	0	0	--
North Carolina	W	3,381	W	1,259	1,232	2.1%	0	0	--
South Carolina	1,612	2,354	-31.5%	712	701	1.6%	0	0	--
Virginia	W	W	W	2,351	2,497	-5.8%	0	0	--
West Virginia	W	6,025	W	154	137	12.5%	W	W	W
East South Central	11,260	11,338	-0.7%	1,159	1,150	0.7%	0	0	--
Alabama	2,958	2,407	22.9%	210	211	-0.3%	0	0	--
Kentucky	5,713	6,007	-4.9%	217	221	-2.0%	0	0	--
Mississippi	W	W	W	6	29	-79.1%	0	0	--
Tennessee	W	W	W	725	689	5.3%	0	0	--
West South Central	20,568	17,225	19.4%	1,254	1,235	1.5%	W	W	W
Arkansas	3,862	3,625	6.5%	179	167	7.6%	0	0	--
Louisiana	3,689	2,471	49.2%	218	200	8.6%	W	W	W
Oklahoma	2,843	2,438	16.6%	95	97	-1.8%	0	0	--
Texas	10,174	8,690	17.1%	762	772	-1.3%	0	0	--
Mountain	18,203	16,482	10.4%	345	382	-9.6%	W	W	W
Arizona	3,301	3,122	5.7%	105	136	-23.1%	0	0	--
Colorado	3,676	3,696	-0.5%	129	119	8.3%	0	0	--
Idaho	0	0	--	0	0	-25.4%	0	0	--
Montana	W	W	W	11	17	-33.8%	W	W	W
Nevada	W	W	W	0	2	-76.6%	0	0	--
New Mexico	W	W	W	NM	50	NM	0	0	--
Utah	4,652	2,979	56.1%	46	30	52.5%	0	0	--
Wyoming	W	4,618	W	46	28	63.5%	0	0	--
Pacific Contiguous	W	W	W	358	354	1.2%	0	0	--
California	0	0	--	194	177	9.1%	0	0	--
Oregon	0	W	W	70	78	-10.4%	0	0	--
Washington	W	W	W	95	99	-4.0%	0	0	--
Pacific Noncontiguous	W	W	W	836	1,289	-35.2%	0	0	--
Alaska	0	W	W	58	231	-74.7%	0	0	--
Hawaii	W	W	W	777	1,058	-26.5%	0	0	--
U.S. Total	136,191	122,364	11.3%	25,406	25,720	-1.2%	473	464	1.9%

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

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019
Coal (Thousand Tons)							
New England	W	453	W	W	W	W	W
Middle Atlantic	4,152	4,528	-8.3%	W	0	W	4,528
East North Central	32,691	27,016	21.0%	20,108	17,770	12,583	9,246
West North Central	26,572	21,936	21.1%	26,572	21,936	0	0
South Atlantic	21,240	22,143	-4.1%	19,124	19,566	2,116	2,577
East South Central	11,260	11,338	-0.7%	11,260	11,338	0	0
West South Central	20,568	17,225	19.4%	14,124	12,382	6,444	4,843
Mountain	18,203	16,482	10.4%	W	W	W	W
Pacific Contiguous	W	W	W	0	W	W	W
Pacific Noncontiguous	W	W	W	0	W	W	W
U.S. Total	**136,191**	**122,364**	**11.3%**	**109,093**	**99,470**	**27,098**	**22,894**
Petroleum Liquids (Thousand Barrels)							
New England	3,657	3,321	10.1%	518	496	3,139	2,825
Middle Atlantic	5,061	5,540	-8.6%	1,941	2,130	3,120	3,410
East North Central	1,611	1,103	46.1%	663	706	948	397
West North Central	776	832	-6.7%	751	804	25	27
South Atlantic	10,350	10,513	-1.6%	8,201	8,390	2,149	2,124
East South Central	1,159	1,150	0.7%	1,067	1,058	92	92
West South Central	1,254	1,235	1.5%	1,059	1,012	194	223
Mountain	345	382	-9.6%	321	352	25	30
Pacific Contiguous	358	354	1.2%	259	275	100	80
Pacific Noncontiguous	836	1,289	-35.2%	833	1,257	NM	32
U.S. Total	**25,406**	**25,720**	**-1.2%**	**15,613**	**16,480**	**9,793**	**9,240**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	122	W	W	W	0	W
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	**473**	**464**	**1.9%**	**452**	**407**	**21**	**57**

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

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2010 - November 2020 (Thousand Tons)

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	67,241	90,376	4,393	162,009
2017	56,140	77,875	3,672	137,687
2018	41,507	58,247	3,039	102,793
2019	54,844	69,932	3,124	128,180
Year 2018, End of Month Stocks				
January	47,910	72,251	3,074	123,235
February	47,658	69,960	2,909	120,526
March	49,027	73,768	3,213	126,008
April	50,499	74,747	3,324	128,571
May	51,393	73,377	3,212	127,982
June	48,411	69,439	3,191	121,041
July	44,487	63,014	2,847	110,348
August	42,359	58,570	2,816	103,744
Sept	40,384	57,155	2,845	100,384
October	42,588	59,252	3,016	104,855
November	42,392	58,575	3,108	104,075
December	41,507	58,247	3,039	102,793
Year 2019, End of Month Stocks				
January	39,895	56,368	2,883	99,147
February	41,236	54,665	2,738	98,639
March	44,239	49,467	3,054	96,933
April	48,925	55,808	3,344	108,089
May	51,973	60,325	3,023	115,712
June	53,694	60,293	2,551	116,876
July	50,058	57,591	2,670	110,672
August	49,612	57,932	2,409	110,278
Sept	48,837	59,055	2,395	110,626
October	51,574	64,043	2,590	118,574
November	52,623	66,443	2,959	122,364
December	54,844	69,932	3,124	128,180
Year 2020, End of Month Stocks				
January	56,274	74,515	3,307	134,364
February	57,232	78,589	3,235	139,299
March	59,841	81,506	3,624	145,238
April	61,835	85,663	3,947	151,744
May	61,500	88,072	4,117	154,058
June	59,364	86,587	4,140	150,427
July	53,713	79,606	4,264	137,907
August	50,755	74,335	4,338	129,688
Sept	50,268	74,558	4,070	129,102
October	53,467	75,956	3,772	133,398
November	54,809	77,478	3,702	136,191

Notes: See Glossary for definitions.
Values for 2019 and prior years are final. Values for 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923. and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following:
Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report;
and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Chapter 4

Receipts and Cost of Fossil Fuels

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2010 - November 2020

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,516,272	650,770	2.11	40.64	1.34	93.8	101,810	16,807	9.39	56.89	0.49	68.1
2017	12,261,029	642,364	2.06	39.27	1.28	94.7	96,977	16,127	11.86	71.35	0.49	68.0
2018	11,371,117	596,215	2.06	39.25	1.31	91.7	134,069	22,290	14.42	86.80	0.42	71.4
2019	10,745,991	560,153	2.02	38.70	1.31	101.8	88,662	14,711	13.62	82.12	0.49	64.0
Year 2018												
January	955,176	50,541	2.06	39.01	1.24	76.3	35,958	6,008	14.02	84.17	0.47	59.1
February	852,358	44,837	2.07	39.27	1.27	95.2	12,093	1,993	12.79	77.72	0.47	122.2
March	941,236	48,946	2.04	39.20	1.34	107.0	7,979	1,331	13.56	81.30	0.42	80.5
April	816,396	42,555	2.07	39.66	1.33	102.3	6,902	1,141	13.90	84.04	0.41	65.7
May	892,542	46,186	2.04	39.50	1.38	95.5	9,619	1,591	14.40	87.12	0.34	79.2
June	930,650	48,563	2.04	39.14	1.36	85.0	9,287	1,546	14.96	89.81	0.33	75.2
July	989,524	52,065	2.05	38.98	1.29	80.2	7,532	1,244	14.74	89.24	0.33	65.2
August	1,076,062	56,499	2.06	39.16	1.31	87.2	7,016	1,163	15.41	92.94	0.38	57.8
Sept	943,820	49,892	2.05	38.76	1.25	90.8	7,903	1,316	15.42	92.57	0.38	66.0
October	1,000,010	52,357	2.04	39.05	1.36	106.0	9,389	1,556	15.77	95.13	0.42	77.7
November	954,234	50,315	2.06	39.02	1.32	95.2	8,917	1,494	15.87	94.65	0.46	73.7
December	1,019,110	53,461	2.11	40.25	1.30	94.0	11,474	1,908	13.96	83.90	0.47	94.1
Year 2019												
January	1,010,158	52,809	2.10	40.15	1.32	92.4	8,961	1,486	12.46	75.19	0.46	51.0
February	853,344	44,826	2.07	39.38	1.27	97.1	9,019	1,483	13.25	80.59	0.48	88.4
March	827,252	42,436	2.08	40.49	1.50	94.1	7,697	1,277	14.44	87.07	0.47	78.1
April	874,686	45,147	2.07	40.03	1.37	131.4	7,083	1,175	14.87	89.62	0.52	75.3
May	896,817	46,301	2.05	39.76	1.38	113.1	6,759	1,125	14.51	87.20	0.50	58.3
June	873,807	45,367	2.03	39.03	1.35	100.4	6,883	1,145	13.70	82.32	0.49	61.5
July	945,182	49,535	2.02	38.54	1.28	87.2	5,943	993	13.80	82.63	0.48	51.5
August	986,319	51,507	2.00	38.30	1.26	96.6	5,217	878	14.25	84.70	0.51	44.1
Sept	895,606	46,816	1.96	37.47	1.27	97.3	8,345	1,376	12.64	76.68	0.48	76.2
October	875,036	45,699	1.96	37.48	1.27	119.0	6,806	1,129	13.72	82.68	0.50	61.1
November	851,748	44,843	1.96	37.27	1.26	104.5	7,994	1,316	13.02	79.10	0.49	70.2
December	856,036	44,867	1.91	36.50	1.25	108.0	7,954	1,328	13.64	81.73	0.49	67.3
Year 2020												
January	814,248	42,959	1.94	36.79	1.25	113.6	5,342	895	13.86	82.71	0.53	46.8
February	692,114	36,715	1.91	35.97	1.27	111.1	6,581	1,090	13.05	78.77	0.49	69.7
March	659,206	34,712	1.94	36.77	1.33	116.1	6,712	1,111	10.48	63.31	0.51	75.0
April	562,898	30,023	1.93	36.17	1.25	122.9	4,231	715	8.48	50.24	0.52	55.6
May	536,562	28,899	1.90	35.22	1.15	104.5	6,466	1,090	6.52	38.69	0.50	77.4
June	621,590	32,837	1.91	36.14	1.29	87.8	6,761	1,123	7.24	43.60	0.48	66.4
July	710,166	37,392	1.91	36.34	1.30	73.7	7,035	1,166	8.50	51.29	0.48	62.1
August	775,036	40,533	1.90	36.34	1.29	79.0	5,001	833	9.96	59.83	0.49	45.9
Sept	720,964	37,819	1.94	37.06	1.28	95.6	4,835	805	9.64	57.89	0.51	52.6
October	709,596	36,914	1.92	36.86	1.38	106.0	6,942	1,148	9.08	54.92	0.48	64.6
November	706,725	36,897	1.91	36.66	1.35	104.7	4,666	769	9.57	58.05	0.45	49.5
Year to Date												
2018	10,352,007	542,755	2.05	39.15	1.31	91.5	122,595	20,383	14.46	87.08	0.41	69.8
2019	9,889,955	515,286	2.03	38.90	1.32	101.3	80,708	13,383	13.62	82.16	0.49	63.7
2020	7,509,106	395,701	1.92	36.43	1.29	98.5	64,573	10,745	9.62	57.83	0.49	60.0
Rolling 12 Months Ending in November												
2019	10,909,065	568,746	2.04	39.02	1.32	100.6	92,182	15,290	13.66	82.37	0.49	66.3
2020	8,365,142	440,569	1.92	36.44	1.28	99.4	72,527	12,073	10.06	60.45	0.49	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 2019 and prior years are final. Values for 2020 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2010 - November 2020 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,942	4,166	1.65	46.30	5.40	77.9	10,619,105	10,271,180	2.87	2.97	90.7	2.47
2017	92,837	3,309	2.13	59.90	5.56	74.1	9,951,815	9,628,733	3.37	3.49	90.2	2.65
2018	85,122	3,010	2.54	71.76	5.74	66.1	11,244,158	10,885,764	3.55	3.67	90.4	2.83
2019	56,294	1,969	1.91	54.59	5.51	55.3	12,093,432	11,693,486	2.89	2.98	91.4	2.50
Year 2018												
January	7,009	248	2.38	67.41	5.31	53.2	836,690	809,817	5.06	5.23	88.7	3.59
February	7,769	277	2.43	68.09	5.49	72.4	734,114	711,064	3.61	3.73	88.7	2.82
March	7,841	281	2.54	70.89	5.54	86.2	805,795	779,565	3.18	3.29	89.3	2.59
April	6,564	232	2.56	72.38	6.09	65.5	758,992	735,470	3.14	3.24	90.2	2.61
May	4,344	152	2.41	68.58	6.09	54.2	894,444	866,280	3.06	3.16	89.9	2.59
June	7,382	260	2.73	77.61	5.97	62.9	1,014,537	982,204	3.13	3.23	91.7	2.64
July	8,307	293	2.71	76.81	5.73	65.3	1,272,002	1,231,687	3.23	3.34	91.1	2.73
August	8,443	298	2.79	78.94	5.67	69.4	1,243,191	1,203,931	3.28	3.38	91.6	2.72
Sept	8,158	288	2.94	83.35	5.63	72.2	1,093,336	1,057,918	3.12	3.22	91.9	2.65
October	5,892	208	2.48	70.32	5.77	68.1	951,711	921,416	3.43	3.55	91.4	2.76
November	6,696	235	2.21	63.10	5.87	68.6	817,552	791,716	4.18	4.31	89.3	3.05
December	6,718	238	2.03	57.24	5.90	59.0	821,793	794,697	4.72	4.89	89.4	3.29
Year 2019												
January	5,447	192	2.08	59.13	5.93	48.1	919,838	889,946	4.00	4.13	90.7	3.01
February	4,486	155	2.27	65.75	5.78	45.9	837,542	807,831	3.63	3.76	89.9	2.86
March	3,725	130	2.43	69.63	6.15	42.2	872,265	844,350	3.46	3.57	90.1	2.81
April	3,159	111	2.71	76.93	5.65	49.1	799,961	774,560	2.89	2.98	90.7	2.50
May	4,631	162	2.24	63.78	5.41	44.6	911,282	883,322	2.77	2.85	92.3	2.44
June	3,740	130	2.18	62.61	5.15	45.4	1,058,212	1,024,899	2.58	2.67	92.1	2.36
July	5,766	201	2.01	57.67	5.22	52.2	1,325,515	1,281,068	2.54	2.63	92.4	2.34
August	7,308	258	1.72	48.66	5.20	74.8	1,348,880	1,302,573	2.42	2.50	92.4	2.26
Sept	3,777	131	1.67	48.38	5.58	42.2	1,148,917	1,110,680	2.59	2.68	92.1	2.34
October	2,365	83	1.57	44.65	5.64	56.6	1,001,048	967,750	2.49	2.58	91.2	2.27
November	6,654	232	1.46	41.78	5.38	125.2	886,624	856,721	2.96	3.06	90.5	2.50
December	5,236	183	1.14	32.50	5.44	68.2	983,347	949,785	2.91	3.01	90.9	2.47
Year 2020												
January	8,421	295	1.53	43.68	5.34	87.9	932,454	900,881	2.63	2.72	84.3	2.33
February	6,913	244	1.47	41.75	4.99	102.2	887,425	858,020	2.40	2.48	85.5	2.22
March	4,942	174	1.36	38.61	5.46	57.7	875,682	846,389	2.14	2.22	84.2	2.09
April	5,150	180	1.38	39.50	5.35	71.4	773,366	745,767	2.10	2.18	84.7	2.04
May	5,495	195	1.61	45.35	5.30	67.1	835,738	810,278	2.16	2.23	85.2	2.07
June	5,648	199	1.46	41.45	6.01	52.5	1,015,594	986,100	2.01	2.07	84.6	1.99
July	5,610	201	1.62	45.31	5.57	47.3	1,276,802	1,239,312	2.03	2.09	82.6	2.01
August	7,159	253	1.82	51.46	5.68	65.9	1,219,171	1,182,235	2.39	2.47	83.9	2.21
Sept	3,876	140	W	W	5.21	61.4	1,002,511	971,129	2.42	2.50	84.1	2.23
October	3,746	134	2.08	58.22	4.96	65.2	933,885	905,019	2.49	2.57	84.1	2.26
November	4,711	167	2.25	63.61	4.99	59.6	782,088	757,557	2.99	3.09	85.3	2.48
Year to Date												
2018	78,404	2,772	2.58	73.01	5.72	66.8	10,422,365	10,091,067	3.46	3.57	90.5	2.79
2019	51,058	1,786	1.99	56.86	5.52	54.2	11,110,085	10,743,701	2.88	2.98	91.4	2.51
2020	61,671	2,181	1.65	46.76	5.37	65.7	10,534,716	10,202,688	2.33	2.41	84.3	2.18
Rolling 12 Months Ending in November												
2019	57,776	2,024	1.99	56.90	5.56	54.7	11,931,878	11,538,398	3.01	3.11	91.3	2.57
2020	66,907	2,364	W	W	5.38	65.9	11,518,063	11,152,473	2.38	2.46	84.8	2.20

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.

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- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2010 - November 2020

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,256,878	476,207	2.16	42.01	1.21	95.4	73,294	11,985	9.16	56.02	0.45	74.0
2017	9,011,629	467,595	2.12	40.81	1.16	96.0	70,422	11,640	11.60	70.19	0.47	74.4
2018	8,351,036	435,964	2.11	40.35	1.18	91.6	84,050	13,896	14.39	87.09	0.37	75.3
2019	7,970,069	413,915	2.08	39.99	1.18	103.1	66,789	11,010	13.40	81.29	0.46	69.9
Year 2018												
January	689,121	36,230	2.08	39.57	1.11	75.5	16,449	2,762	14.38	85.73	0.43	61.0
February	637,294	33,294	2.10	40.18	1.17	97.3	8,657	1,413	12.58	77.10	0.46	126.0
March	696,264	36,224	2.09	40.20	1.18	111.4	5,472	906	13.38	80.86	0.36	82.4
April	600,033	31,096	2.12	40.93	1.23	101.8	5,321	875	13.78	83.81	0.36	74.7
May	654,477	33,757	2.09	40.57	1.24	95.3	6,739	1,108	14.37	87.44	0.29	82.5
June	689,040	35,857	2.10	40.33	1.21	84.0	6,566	1,085	14.63	88.49	0.28	78.5
July	738,864	38,675	2.10	40.13	1.15	79.8	5,620	920	14.34	87.60	0.27	75.5
August	802,045	41,889	2.11	40.43	1.19	87.2	5,016	826	15.26	92.68	0.34	63.6
Sept	695,648	36,530	2.12	40.31	1.15	90.3	5,665	940	15.53	93.63	0.35	66.8
October	713,410	37,228	2.10	40.20	1.21	104.3	6,170	1,011	15.78	96.34	0.39	73.6
November	691,145	36,346	2.10	39.90	1.17	95.3	5,383	896	15.89	95.50	0.41	69.8
December	743,694	38,838	2.17	41.48	1.17	93.2	6,991	1,155	13.83	83.69	0.44	94.7
Year 2019												
January	738,951	38,447	2.16	41.50	1.17	92.6	6,257	1,035	12.58	76.07	0.42	61.2
February	631,870	33,072	2.14	40.80	1.15	98.6	6,768	1,106	13.06	79.89	0.46	99.9
March	588,088	30,001	2.14	41.91	1.36	94.2	6,258	1,034	14.36	86.91	0.42	88.8
April	646,989	33,355	2.13	41.31	1.20	135.4	5,460	901	14.73	89.26	0.47	85.9
May	664,887	34,246	2.12	41.12	1.21	112.6	5,038	832	14.15	85.71	0.48	63.5
June	651,381	33,621	2.10	40.75	1.19	99.7	5,247	869	13.31	80.39	0.47	63.3
July	723,359	37,713	2.08	39.90	1.15	88.8	4,455	740	13.30	80.10	0.46	55.6
August	746,495	38,909	2.06	39.56	1.14	97.4	3,921	656	13.65	81.53	0.48	44.4
Sept	676,927	35,149	2.01	38.79	1.17	98.7	6,831	1,119	12.41	75.70	0.45	85.5
October	643,227	33,488	2.01	38.57	1.13	122.6	4,958	815	13.28	80.79	0.47	62.2
November	624,023	32,728	2.01	38.36	1.14	106.9	6,206	1,013	12.83	78.61	0.48	82.2
December	633,871	33,185	1.95	37.30	1.12	110.8	5,390	891	13.65	82.59	0.47	63.9
Year 2020												
January	599,610	31,535	1.98	37.56	1.12	114.9	4,454	744	13.67	81.86	0.48	50.0
February	511,376	27,027	1.94	36.77	1.12	113.6	5,670	937	12.86	77.84	0.46	78.7
March	490,415	25,766	1.97	37.43	1.14	118.3	5,169	851	10.37	62.98	0.47	83.9
April	431,348	22,478	1.97	37.89	1.18	131.5	2,574	432	8.46	50.40	0.47	46.6
May	400,318	21,157	1.93	36.48	1.08	106.2	4,012	671	6.68	39.96	0.48	66.3
June	464,257	24,345	1.96	37.30	1.13	87.4	4,152	685	6.62	40.13	0.47	55.4
July	546,562	28,603	1.96	37.36	1.15	74.4	5,546	911	8.25	50.24	0.47	67.7
August	598,478	31,014	1.94	37.45	1.16	79.4	3,727	617	10.06	60.79	0.47	46.7
Sept	550,242	28,659	2.00	38.40	1.13	96.3	3,382	557	9.74	59.10	0.46	49.2
October	531,980	27,538	1.96	37.93	1.23	109.8	5,526	907	9.14	55.65	0.46	67.9
November	524,254	27,241	1.96	37.75	1.22	109.9	3,837	633	9.25	56.05	0.48	56.0
Year to Date												
2018	7,607,341	397,126	2.10	40.24	1.18	91.5	77,059	12,741	14.45	87.40	0.36	74.0
2019	7,336,197	380,730	2.09	40.22	1.18	102.4	61,399	10,120	13.38	81.18	0.46	70.5
2020	5,648,841	295,364	1.96	37.51	1.15	100.1	48,050	7,945	9.69	58.61	0.47	60.5
Rolling 12 Months Ending in November												
2019	8,079,892	419,568	2.09	40.34	1.18	101.5	68,390	11,275	13.43	81.43	0.46	72.4
2020	6,282,712	328,548	1.96	37.48	1.15	101.1	53,440	8,836	10.09	61.02	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.

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2010 - November 2020 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.85	5.38	103.1	5,075,337	4,907,538	3.15	3.26	97.0	2.54
2017	90,481	3,224	2.15	60.31	5.55	117.6	4,794,383	4,640,827	3.62	3.74	96.8	2.68
2018	83,211	2,940	2.56	72.34	5.74	106.8	5,553,558	5,379,459	3.68	3.80	96.2	2.80
2019	54,266	1,896	1.92	54.88	5.50	91.0	6,026,974	5,831,134	3.03	3.13	97.0	2.53
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	423,606	410,310	5.20	5.37	95.5	3.41
February	7,769	277	2.43	68.09	5.49	117.9	359,760	348,729	3.81	3.93	95.0	2.79
March	7,841	281	2.54	70.89	5.54	141.5	397,572	384,900	3.46	3.57	96.4	2.64
April	6,564	232	2.56	72.38	6.09	119.0	377,302	365,948	3.30	3.40	97.5	2.63
May	4,344	152	2.41	68.58	6.09	108.3	452,870	438,567	3.24	3.35	94.8	2.63
June	7,382	260	2.73	77.61	5.97	96.2	525,751	509,192	3.28	3.39	97.2	2.67
July	8,147	287	2.73	77.48	5.73	100.4	632,132	612,044	3.27	3.38	95.1	2.69
August	8,183	288	2.82	80.03	5.67	105.4	607,246	588,293	3.33	3.44	96.5	2.68
Sept	7,493	263	3.05	86.74	5.59	101.2	535,618	518,216	3.28	3.39	97.0	2.68
October	5,415	191	2.55	72.24	5.80	120.4	464,777	450,302	3.57	3.68	97.8	2.74
November	6,524	229	2.23	63.55	5.88	116.4	390,167	378,446	4.26	4.39	94.9	2.93
December	6,541	232	2.04	57.52	5.91	96.0	386,756	374,513	4.92	5.08	96.2	3.16
Year 2019												
January	5,447	192	2.08	59.13	5.93	73.8	446,581	432,740	4.13	4.26	97.1	2.94
February	4,486	155	2.27	65.75	5.78	69.4	414,367	398,782	3.76	3.90	96.0	2.84
March	3,725	130	2.43	69.63	6.15	66.9	432,758	419,315	3.63	3.74	96.4	2.84
April	3,159	111	2.71	76.93	5.65	101.5	401,329	388,531	3.05	3.15	96.7	2.55
May	4,631	162	2.24	63.78	5.41	73.8	471,417	457,391	2.92	3.01	99.1	2.50
June	3,740	130	2.18	62.61	5.15	85.7	546,353	529,347	2.73	2.82	97.6	2.43
July	5,723	199	2.01	57.76	5.22	86.8	662,600	640,466	2.63	2.72	96.9	2.38
August	6,693	235	1.72	48.82	5.15	115.7	680,091	657,152	2.52	2.61	96.6	2.31
Sept	3,034	105	1.68	48.71	5.58	56.6	577,988	559,208	2.75	2.84	97.0	2.40
October	1,738	60	1.51	43.76	5.45	92.3	496,610	480,428	2.69	2.78	96.7	2.35
November	6,654	232	1.46	41.78	5.38	227.7	427,761	413,977	3.13	3.24	97.1	2.52
December	5,236	183	1.14	32.50	5.44	132.2	469,120	453,798	3.12	3.22	96.9	2.50
Year 2020												
January	8,421	295	1.53	43.68	5.34	144.1	447,079	432,583	2.87	2.97	87.8	2.40
February	6,913	244	1.47	41.75	4.99	164.5	436,842	422,809	2.66	2.74	90.0	2.33
March	4,942	174	1.36	38.61	5.46	82.4	439,954	425,351	2.36	2.44	89.2	2.19
April	5,150	180	1.38	39.50	5.35	98.8	388,884	374,588	2.34	2.43	89.5	2.16
May	5,495	195	1.61	45.35	5.30	104.2	425,971	413,175	2.43	2.51	89.9	2.20
June	5,648	199	1.46	41.45	6.01	77.0	504,697	490,859	2.26	2.32	87.6	2.13
July	5,104	183	1.62	45.13	5.52	61.2	623,212	605,840	2.20	2.27	84.2	2.11
August	6,485	228	1.83	52.01	5.67	91.5	595,172	577,443	2.57	2.65	86.2	2.28
Sept	3,305	119	1.97	54.59	5.08	102.2	481,087	466,204	2.72	2.80	86.4	2.36
October	3,340	118	2.12	59.66	4.87	143.2	459,139	444,977	2.75	2.83	87.6	2.36
November	4,711	167	2.25	63.61	4.99	105.0	377,887	366,327	3.39	3.50	90.5	2.58
Year to Date												
2018	76,671	2,708	2.60	73.61	5.72	107.9	5,166,803	5,004,946	3.59	3.71	96.2	2.77
2019	49,030	1,713	2.00	57.28	5.50	88.1	5,557,854	5,377,336	3.02	3.12	97.0	2.54
2020	59,514	2,101	1.65	46.76	5.35	100.2	5,179,924	5,020,156	2.57	2.65	87.8	2.28
Rolling 12 Months Ending in November												
2019	55,571	1,945	2.01	57.31	5.55	88.9	5,944,610	5,751,849	3.14	3.25	97.0	2.59
2020	64,750	2,285	1.61	45.61	5.36	102.2	5,649,044	5,473,954	2.62	2.70	88.5	2.30

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2010 - November 2020

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	3,047,358	164,648	1.93	35.69	1.73	91.8	25,975	4,410	9.93	58.56	0.48	75.1
2017	3,056,215	165,567	1.85	34.19	1.64	93.1	24,704	4,190	12.67	74.73	0.46	73.8
2018	2,849,062	152,015	1.89	35.41	1.70	94.2	47,699	8,022	14.52	86.39	0.44	81.7
2019	2,629,405	139,141	1.81	34.16	1.74	101.6	20,188	3,425	14.40	84.89	0.50	73.0
Year 2018												
January	250,209	13,549	1.99	36.82	1.60	79.9	19,101	3,180	13.71	82.73	0.46	63.7
February	200,760	10,859	1.93	35.69	1.58	93.0	3,249	550	13.53	79.99	0.43	195.1
March	229,355	11,974	1.84	35.33	1.83	99.4	2,273	388	14.17	82.79	0.43	107.3
April	202,887	10,815	1.88	35.20	1.61	107.5	1,427	242	14.45	84.93	0.44	61.3
May	223,521	11,725	1.87	35.68	1.78	98.4	2,731	459	14.46	86.28	0.46	95.4
June	227,121	12,009	1.84	34.83	1.84	89.2	2,614	444	15.89	93.43	0.40	92.9
July	235,760	12,666	1.87	34.83	1.73	82.1	1,775	301	16.08	94.43	0.45	64.8
August	260,087	13,942	1.86	34.73	1.68	88.4	1,864	315	15.92	93.84	0.42	59.8
Sept	235,579	12,761	1.82	33.63	1.56	94.5	2,082	351	15.17	89.90	0.39	82.5
October	274,139	14,529	1.89	35.60	1.72	113.8	3,039	517	15.83	92.93	0.41	127.4
November	248,768	13,265	1.92	35.95	1.73	97.0	3,328	566	15.95	93.64	0.42	119.9
December	260,878	13,920	1.94	36.42	1.68	99.1	4,215	709	14.20	84.15	0.46	132.8
Year 2019												
January	258,502	13,732	1.91	35.91	1.75	94.9	2,550	426	12.15	72.73	0.50	53.5
February	208,595	11,136	1.83	34.30	1.66	96.1	2,052	344	13.83	82.61	0.46	98.6
March	225,693	11,804	1.88	35.97	1.87	96.4	1,312	223	14.97	88.25	0.54	79.1
April	215,930	11,232	1.84	35.44	1.89	127.7	1,400	238	15.72	92.48	0.51	72.3
May	219,210	11,432	1.83	35.06	1.91	118.6	1,628	278	15.67	91.68	0.49	76.9
June	210,718	11,178	1.76	33.24	1.84	105.7	1,505	255	15.10	89.08	0.48	74.1
July	210,437	11,271	1.79	33.38	1.69	83.9	1,409	240	15.49	90.87	0.48	53.7
August	228,948	12,067	1.78	33.72	1.69	96.5	1,184	203	16.40	95.62	0.49	57.7
Sept	207,547	11,127	1.75	32.61	1.59	95.7	1,361	232	13.79	81.01	0.56	72.0
October	219,896	11,624	1.77	33.58	1.69	114.0	1,713	292	15.05	88.23	0.52	80.0
November	214,440	11,469	1.77	33.22	1.61	101.1	1,652	281	13.67	80.52	0.49	78.7
December	209,490	11,070	1.75	33.07	1.66	104.6	2,423	414	13.65	79.88	0.50	107.5
Year 2020												
January	201,983	10,808	1.80	33.69	1.63	115.6	727	125	15.12	88.13	0.56	50.6
February	169,439	9,130	1.77	32.84	1.74	110.4	722	123	14.71	86.54	0.57	55.8
March	155,769	8,326	1.78	33.38	1.92	115.8	1,351	229	10.89	64.15	0.52	71.4
April	121,895	7,075	1.72	29.67	1.47	108.4	1,542	264	8.35	48.79	0.53	111.6
May	126,481	7,262	1.76	30.61	1.37	104.5	2,325	398	6.16	36.02	0.50	165.7
June	147,445	8,001	1.73	31.85	1.80	90.8	2,513	422	8.21	48.86	0.48	140.7
July	153,536	8,300	1.73	31.98	1.84	72.4	1,364	234	9.42	54.82	0.48	64.6
August	167,020	9,060	1.72	31.80	1.74	79.1	1,136	194	9.65	56.59	0.50	59.5
Sept	161,112	8,684	1.72	32.03	1.81	96.7	1,287	221	9.42	54.91	0.52	88.7
October	165,809	8,815	1.72	32.39	1.85	99.4	1,275	218	8.68	50.87	0.52	76.7
November	171,606	9,135	1.73	32.49	1.73	95.1	746	123	11.19	68.07	0.23	49.2
Year to Date												
2018	2,588,185	138,095	1.88	35.31	1.70	93.8	43,484	7,313	14.56	86.62	0.44	78.8
2019	2,419,915	128,071	1.81	34.26	1.75	101.3	17,765	3,011	14.51	85.58	0.50	70.0
2020	1,742,095	94,596	1.74	32.17	1.73	97.0	14,989	2,550	9.31	54.75	0.50	84.0
Rolling 12 Months Ending in November												
2019	2,680,793	141,992	1.82	34.47	1.74	101.1	21,980	3,721	14.44	85.29	0.49	76.9
2020	1,951,585	105,666	1.75	32.26	1.72	97.8	17,412	2,964	9.91	58.23	0.50	86.7

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Notes:
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COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2010 - November 2020 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	3.52
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	2.57
2016	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	2.29
2017	0	0	--	--	--	0.0	4,346,156	4,201,573	3.08	3.19	94.0	2.54
2018	0	0	--	--	--	0.0	4,889,212	4,727,692	3.40	3.52	94.6	2.84
2019	0	0	--	--	--	0.0	5,242,547	5,062,877	2.70	2.80	96.0	2.40
Year 2018												
January	0	0	--	--	--	0.0	343,077	331,644	5.21	5.39	93.1	3.99
February	0	0	--	--	--	0.0	312,835	302,657	3.38	3.49	93.7	2.80
March	0	0	--	--	--	0.0	346,290	334,497	2.87	2.97	93.6	2.46
April	0	0	--	--	--	0.0	319,774	309,352	2.96	3.06	94.1	2.51
May	0	0	--	--	--	0.0	377,388	365,397	2.79	2.89	94.8	2.46
June	0	0	--	--	--	0.0	422,237	408,330	2.89	2.98	95.3	2.53
July	0	0	--	--	--	0.0	570,783	552,360	3.21	3.32	95.3	2.79
August	0	0	--	--	--	0.0	565,773	547,533	3.22	3.33	95.1	2.76
Sept	0	0	--	--	--	0.0	489,149	472,958	2.90	3.00	95.4	2.54
October	0	0	--	--	--	0.0	419,722	405,657	3.20	3.31	94.9	2.68
November	0	0	--	--	--	0.0	355,192	343,013	4.12	4.27	94.1	3.19
December	0	0	--	--	--	0.0	366,993	354,294	4.49	4.65	95.0	3.39
Year 2019												
January	0	0	--	--	--	0.0	398,896	385,014	3.88	4.02	95.6	3.05
February	0	0	--	--	--	0.0	357,555	345,530	3.49	3.61	95.0	2.85
March	0	0	--	--	--	0.0	371,920	359,394	3.30	3.41	95.0	2.73
April	0	0	--	--	--	0.0	333,598	322,802	2.65	2.74	95.5	2.33
May	0	0	--	--	--	0.0	372,853	360,800	2.53	2.61	96.4	2.28
June	0	0	--	--	--	0.0	446,512	432,051	2.35	2.43	96.4	2.17
July	0	0	--	--	--	0.0	592,358	572,083	2.43	2.51	96.4	2.26
August	0	0	--	--	--	0.0	597,443	576,291	2.27	2.35	96.5	2.13
Sept	0	0	--	--	--	0.0	504,061	486,741	2.38	2.47	96.5	2.19
October	0	0	--	--	--	0.0	438,101	422,965	2.22	2.30	96.1	2.09
November	0	0	--	--	--	0.0	388,489	374,471	2.77	2.88	95.5	2.41
December	0	0	--	--	--	0.0	440,761	424,737	2.69	2.79	95.8	2.39
Year 2020												
January	0	0	--	--	--	0.0	412,765	397,879	2.36	2.45	90.7	2.17
February	0	0	--	--	--	0.0	384,666	371,234	2.09	2.17	90.8	1.99
March	0	0	--	--	--	0.0	369,172	356,338	1.86	1.93	88.6	1.86
April	0	0	--	--	--	0.0	321,897	310,434	1.79	1.86	89.9	1.79
May	0	0	--	--	--	0.0	344,883	334,015	1.80	1.86	89.3	1.81
June	0	0	--	--	--	0.0	445,814	431,957	1.70	1.75	89.1	1.74
July	0	0	--	--	--	0.0	586,374	568,014	1.83	1.89	87.0	1.82
August	0	0	--	--	--	0.0	557,121	539,745	2.16	2.23	88.4	2.05
Sept	0	0	--	--	--	0.0	459,037	444,246	2.02	2.09	89.3	1.94
October	0	0	--	--	--	0.0	411,890	398,862	2.15	2.22	89.5	2.03
November	0	0	--	--	--	0.0	338,939	327,799	2.45	2.54	90.5	2.19
Year to Date												
2018	0	0	--	--	--	0.0	4,522,220	4,373,398	3.31	3.42	94.6	2.79
2019	0	0	--	--	--	0.0	4,801,786	4,638,140	2.70	2.80	96.0	2.40
2020	0	0	--	--	--	0.0	4,632,556	4,480,524	2.02	2.09	89.2	1.95
Rolling 12 Months Ending in November												
2019	0	0	--	--	--	0.0	5,168,779	4,992,435	2.82	2.92	95.9	2.47
2020	0	0	--	--	--	0.0	5,073,316	4,905,261	2.07	2.15	89.7	1.99

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2010 - November 2020

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	3.12	70.30	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	2.85	63.90	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	2.69	60.89	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	2.78	63.31	2.99	3.9	0	0	--	--	--	0.0
2018	290	13	2.94	66.52	3.04	2.2	0	0	--	--	--	0.0
2019	193	8	2.92	66.55	3.01	1.6	0	0	--	--	--	0.0
Year 2018												
January	95	4	2.92	66.58	3.11	5.5	0	0	--	--	--	0.0
February	31	1	2.92	66.05	3.19	2.3	0	0	--	--	--	0.0
March	5	0	2.92	66.20	3.16	0.4	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	52	2	2.94	66.53	2.87	5.5	0	0	--	--	--	0.0
November	62	3	2.94	66.44	2.99	5.8	0	0	--	--	--	0.0
December	46	2	2.97	66.83	3.05	4.4	0	0	--	--	--	0.0
Year 2019												
January	27	1	2.90	65.89	3.00	2.0	0	0	--	--	--	0.0
February	37	2	2.90	65.51	2.95	3.0	0	0	--	--	--	0.0
March	48	2	2.90	65.86	2.94	3.6	0	0	--	--	--	0.0
April	2	0	2.90	65.28	2.90	0.3	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	2	0	2.90	66.38	3.02	0.4	0	0	--	--	--	0.0
July	1	0	2.97	67.69	2.94	0.2	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	23	1	2.96	67.99	3.17	2.7	0	0	--	--	--	0.0
November	31	1	2.96	67.99	3.17	3.0	0	0	--	--	--	0.0
December	21	1	2.96	67.34	2.91	1.9	0	0	--	--	--	0.0
Year 2020												
January	26	1	2.96	67.40	2.94	2.8	0	0	--	--	--	0.0
February	58	3	2.96	67.58	2.96	5.2	0	0	--	--	--	0.0
March	0	0	--	--	--	0.0	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	0	0	--	--	--	0.0	0	0	--	--	--	0.0
November	24	1	2.98	68.21	2.89	3.0	0	0	--	--	--	0.0
Year to Date												
2018	244	11	2.93	66.46	3.04	2.0	0	0	--	--	--	0.0
2019	173	8	2.92	66.46	3.02	1.6	0	0	--	--	--	0.0
2020	108	5	2.96	67.67	2.94	1.2	0	0	--	--	--	0.0
Rolling 12 Months Ending in November												
2019	219	10	2.93	66.54	3.03	1.9	0	0	--	--	--	0.0
2020	129	6	2.96	67.62	2.93	1.2	0	0	--	--	--	0.0

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COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2010 - November 2020 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	5.42	5.47	4.9	4.47
2015	0	0	--	--	--	0.0	6,499	6,371	4.11	4.19	5.5	3.76
2016	0	0	--	--	--	0.0	8,005	7,766	3.85	3.97	6.1	3.69
2017	0	0	--	--	--	0.0	7,841	7,593	3.82	3.95	4.9	3.75
2018	0	0	--	--	--	0.0	9,090	8,823	3.49	3.59	6.6	3.47
2019	0	0	--	--	--	0.0	9,429	9,087	3.26	3.39	6.7	3.26
Year 2018												
January	0	0	--	--	--	0.0	844	818	3.63	3.74	7.1	3.56
February	0	0	--	--	--	0.0	709	688	3.72	3.84	6.5	3.69
March	0	0	--	--	--	0.0	768	746	3.59	3.69	6.8	3.58
April	0	0	--	--	--	0.0	732	713	3.49	3.58	7.3	3.49
May	0	0	--	--	--	0.0	776	758	3.47	3.55	7.4	3.47
June	0	0	--	--	--	0.0	670	650	3.57	3.67	5.8	3.57
July	0	0	--	--	--	0.0	790	760	3.39	3.52	5.8	3.39
August	0	0	--	--	--	0.0	786	764	3.42	3.52	5.8	3.42
Sept	0	0	--	--	--	0.0	744	723	3.38	3.48	6.3	3.38
October	0	0	--	--	--	0.0	792	770	3.36	3.45	7.2	3.33
November	0	0	--	--	--	0.0	723	701	3.41	3.52	6.6	3.37
December	0	0	--	--	--	0.0	756	732	3.41	3.52	6.6	3.39
Year 2019												
January	0	0	--	--	--	0.0	778	751	3.40	3.52	6.3	3.38
February	0	0	--	--	--	0.0	772	745	3.37	3.50	6.8	3.35
March	0	0	--	--	--	0.0	839	812	3.36	3.47	7.3	3.33
April	0	0	--	--	--	0.0	775	748	3.30	3.41	7.3	3.29
May	0	0	--	--	--	0.0	811	782	3.26	3.38	7.9	3.26
June	0	0	--	--	--	0.0	807	776	3.23	3.36	7.2	3.22
July	0	0	--	--	--	0.0	721	701	3.17	3.26	5.4	3.17
August	0	0	--	--	--	0.0	838	808	3.13	3.25	6.5	3.13
Sept	0	0	--	--	--	0.0	747	717	3.15	3.28	6.4	3.15
October	0	0	--	--	--	0.0	766	734	3.24	3.38	7.0	3.23
November	0	0	--	--	--	0.0	743	713	3.30	3.43	6.6	3.28
December	0	0	--	--	--	0.0	832	801	3.26	3.39	6.6	3.25
Year 2020												
January	0	0	--	--	--	0.0	795	763	3.09	3.22	6.3	3.09
February	0	0	--	--	--	0.0	693	663	3.12	3.26	6.0	3.11
March	0	0	--	--	--	0.0	751	722	3.10	3.22	6.7	3.10
April	0	0	--	--	--	0.0	661	638	3.09	3.20	6.8	3.09
May	0	0	--	--	--	0.0	657	631	3.09	3.22	6.5	3.09
June	0	0	--	--	--	0.0	626	599	3.09	3.23	5.8	3.09
July	0	0	--	--	--	0.0	624	599	3.11	3.24	5.1	3.11
August	0	0	--	--	--	0.0	775	739	3.03	3.17	6.4	3.03
Sept	0	0	--	--	--	0.0	780	748	W	W	7.1	2.98
October	0	0	--	--	--	0.0	769	738	3.03	3.15	7.1	3.03
November	0	0	--	--	--	0.0	698	671	3.09	3.22	6.5	3.09
Year to Date												
2018	0	0	--	--	--	0.0	8,334	8,091	3.49	3.60	6.6	3.48
2019	0	0	--	--	--	0.0	8,597	8,285	3.26	3.39	6.7	3.26
2020	0	0	--	--	--	0.0	7,827	7,511	3.07	3.20	6.4	3.07
Rolling 12 Months Ending in November												
2019	0	0	--	--	--	0.0	9,352	9,017	3.28	3.40	6.7	3.27
2020	0	0	--	--	--	0.0	8,659	8,312	W	W	6.4	3.09

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

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2010 - November 2020

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	2.97	64.15	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	2.72	59.17	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	2.67	57.01	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	192,637	9,178	2.49	52.29	1.35	70.7	1,850	297	11.18	69.57	1.42	15.2
2018	170,730	8,224	2.47	51.38	1.30	67.2	2,319	372	13.46	83.97	1.35	15.9
2019	146,324	7,088	2.55	52.69	1.19	65.1	1,684	275	13.19	80.82	1.47	14.5
Year 2018												
January	15,751	758	2.46	51.13	1.18	61.0	408	65	12.64	79.32	1.32	13.7
February	14,274	683	2.48	51.82	1.32	60.9	187	30	11.38	71.32	1.20	15.9
March	15,612	747	2.51	52.40	1.31	67.4	234	38	12.59	78.52	1.32	23.5
April	13,476	643	2.52	52.79	1.35	67.0	153	24	13.24	83.77	1.23	17.6
May	14,544	704	2.51	51.92	1.24	71.9	149	24	14.33	87.27	1.47	16.1
June	14,489	697	2.49	51.65	1.28	71.9	107	17	13.54	84.39	1.48	10.5
July	14,900	724	2.41	49.69	1.32	75.3	138	22	14.64	89.87	1.42	13.2
August	13,930	668	2.48	51.76	1.31	70.4	135	22	14.45	89.97	1.39	15.5
Sept	12,593	600	2.53	53.10	1.35	63.7	155	25	14.38	89.73	1.12	19.7
October	12,410	598	2.47	51.18	1.38	67.1	180	29	14.50	91.01	1.37	14.9
November	14,259	701	2.50	50.92	1.15	69.1	206	33	14.01	87.74	1.58	15.0
December	14,492	701	2.35	48.52	1.47	64.1	268	43	13.75	85.58	1.46	19.7
Year 2019												
January	12,678	629	2.49	50.14	1.13	56.2	154	25	12.98	80.23	1.24	7.5
February	12,842	617	2.61	54.43	1.16	61.4	199	33	13.77	82.99	1.45	18.7
March	13,424	629	2.68	57.20	1.49	67.5	126	21	13.43	82.27	1.63	14.2
April	11,765	561	2.64	55.30	1.25	62.8	223	36	12.89	79.74	1.54	24.0
May	12,720	623	2.51	51.21	0.97	71.3	92	15	14.12	86.68	1.48	12.6
June	11,705	567	2.49	51.38	1.22	67.2	131	21	13.04	79.96	1.55	18.3
July	11,385	551	2.45	50.57	1.32	65.1	80	13	11.99	74.33	1.41	12.7
August	10,876	530	2.39	49.14	1.23	62.0	112	18	12.56	77.49	1.66	15.4
Sept	11,131	539	2.48	51.28	1.24	66.3	154	25	13.15	80.17	1.58	20.8
October	11,889	586	2.59	52.47	1.21	68.4	136	22	13.01	79.34	1.42	17.2
November	13,255	645	2.59	53.19	1.05	71.3	137	22	13.67	83.44	1.46	9.7
December	12,654	612	2.67	55.16	1.07	64.4	141	23	13.33	81.47	1.25	15.8
Year 2020												
January	12,628	614	2.51	51.68	1.13	62.4	162	27	13.38	81.13	1.71	20.9
February	11,241	555	2.42	48.89	1.12	59.1	188	31	12.36	76.04	0.93	24.6
March	13,022	621	2.61	54.85	1.27	70.0	192	31	10.77	66.35	1.35	28.5
April	9,654	471	2.49	51.04	1.21	60.9	115	19	10.75	65.79	1.36	19.2
May	9,763	480	2.43	49.55	1.15	64.0	129	21	7.84	48.89	0.84	18.4
June	9,888	491	2.39	48.11	1.21	70.2	95	16	8.89	53.81	1.06	13.6
July	10,067	488	2.44	50.24	1.19	64.2	125	20	9.45	57.95	1.22	17.7
August	9,539	460	2.43	50.36	1.21	62.5	138	22	9.83	61.55	0.75	19.9
Sept	9,611	477	2.37	47.69	1.10	61.5	166	27	9.38	57.45	1.59	25.5
October	11,808	562	2.57	53.95	1.17	66.1	141	23	10.61	64.14	1.19	18.7
November	10,840	519	2.51	52.40	1.35	62.9	83	14	10.02	61.29	1.30	10.6
Year to Date												
2018	156,238	7,523	2.49	51.64	1.29	67.5	2,051	329	13.42	83.76	1.34	15.5
2019	133,670	6,476	2.54	52.46	1.20	65.1	1,543	252	13.18	80.76	1.49	14.4
2020	118,062	5,737	2.48	50.95	1.19	63.9	1,534	250	10.48	64.29	1.20	19.6
Rolling 12 Months Ending in November												
2019	148,162	7,177	2.52	52.07	1.23	65.0	1,811	295	13.26	81.46	1.49	15.0
2020	130,716	6,349	2.50	51.35	1.18	64.0	1,675	273	10.72	65.74	1.22	19.2

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Notes:
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COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2010 - November 2020 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	2.56	69.67	5.83	23.2	742,347	718,360	4.54	4.69	62.7	4.12
2015	8,189	304	1.73	46.72	5.50	24.1	765,964	740,975	2.83	2.93	60.6	2.82
2016	3,664	135	2.00	54.12	5.84	11.2	744,034	721,358	2.65	2.74	59.6	2.68
2017	2,356	85	1.59	44.08	5.84	8.1	803,435	778,741	3.18	3.28	62.0	3.06
2018	1,911	71	1.75	47.47	5.74	7.1	792,297	769,790	3.39	3.49	58.6	3.25
2019	2,028	73	1.69	46.99	5.81	8.1	814,483	790,388	2.82	2.91	57.5	2.80
Year 2018												
January	0	0	--	--	--	0.0	69,164	67,045	3.59	3.70	58.1	3.42
February	0	0	--	--	--	0.0	60,810	58,990	3.41	3.52	58.6	3.26
March	0	0	--	--	--	0.0	61,164	59,423	2.85	2.94	56.5	2.81
April	0	0	--	--	--	0.0	61,184	59,457	2.92	3.01	58.4	2.87
May	0	0	--	--	--	0.0	63,410	61,557	2.99	3.08	58.8	2.92
June	0	0	--	--	--	0.0	65,879	64,032	3.14	3.23	59.8	3.03
July	160	6	1.70	45.10	5.83	6.8	68,296	66,523	3.03	3.11	57.4	2.93
August	260	10	1.78	46.99	5.55	12.2	69,386	67,341	3.12	3.21	58.1	3.03
Sept	664	25	1.78	47.54	6.02	31.0	67,825	66,022	3.12	3.20	60.1	3.04
October	477	17	1.76	48.96	5.45	20.6	66,419	64,687	3.75	3.85	59.0	3.56
November	172	6	1.69	46.62	5.85	8.4	71,469	69,556	3.97	4.08	61.6	3.75
December	178	6	1.70	47.00	5.53	7.3	67,289	65,157	4.70	4.85	56.6	4.31
Year 2019												
January	0	0	--	--	--	0.0	73,583	71,442	3.76	3.87	59.0	3.59
February	0	0	--	--	--	0.0	64,847	62,775	3.44	3.56	58.1	3.33
March	0	0	--	--	--	0.0	66,748	64,830	3.13	3.22	57.6	3.07
April	0	0	--	--	--	0.0	64,259	62,480	2.85	2.93	59.7	2.85
May	0	0	--	--	--	0.0	66,202	64,348	2.75	2.83	57.8	2.73
June	0	0	--	--	--	0.0	64,540	62,725	2.63	2.70	56.5	2.62
July	43	2	1.71	46.96	5.81	1.7	69,836	67,819	2.49	2.56	57.3	2.49
August	615	23	1.75	46.99	5.75	30.2	70,509	68,322	2.37	2.45	57.1	2.39
Sept	743	26	1.63	47.00	5.56	30.6	66,121	64,014	2.56	2.65	56.0	2.57
October	627	23	1.72	47.00	6.17	30.1	65,572	63,624	2.46	2.54	55.7	2.49
November	0	0	--	--	--	0.0	69,632	67,560	2.77	2.86	57.8	2.76
December	0	0	--	--	--	0.0	72,635	70,448	2.62	2.70	57.8	2.64
Year 2020												
January	0	0	--	--	--	0.0	71,816	69,655	2.36	2.44	55.7	2.41
February	0	0	--	--	--	0.0	65,225	63,315	2.12	2.19	55.7	2.19
March	0	0	--	--	--	0.0	65,805	63,979	2.00	2.05	55.5	2.12
April	0	0	--	--	--	0.0	61,924	60,107	1.87	1.92	56.2	1.96
May	0	0	--	--	--	0.0	64,228	62,457	1.97	2.02	57.8	2.04
June	0	0	--	--	--	0.0	64,457	62,685	1.83	1.88	56.9	1.91
July	506	19	1.72	47.01	6.06	24.1	66,592	64,859	1.84	1.89	55.8	1.93
August	674	25	1.72	46.47	5.81	30.2	66,103	64,308	2.30	2.36	55.2	2.32
Sept	571	21	W	W	5.96	29.3	61,606	59,931	W	W	55.8	2.51
October	407	15	1.75	47.00	5.69	19.8	62,088	60,441	2.51	2.58	53.8	2.53
November	0	0	--	--	--	0.0	64,564	62,760	3.02	3.11	56.5	2.95
Year to Date												
2018	1,733	64	1.76	47.52	5.76	7.1	725,008	704,632	3.27	3.37	58.8	3.15
2019	2,028	73	1.69	46.99	5.81	8.8	741,848	719,939	2.84	2.93	57.5	2.81
2020	2,157	80	1.73	46.84	5.89	11.1	714,409	694,497	2.21	2.28	55.9	2.26
Rolling 12 Months Ending in November												
2019	2,205	79	1.70	47.00	5.79	8.7	809,137	785,097	3.00	3.09	57.4	2.94
2020	2,157	80	W	W	5.89	10.1	787,044	764,945	W	W	56.1	2.30

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Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, November 2020 and 2019
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	4	15	-71.0%	0	8	4	6	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	4	6	-32.0%	0	0	4	6	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	8	-100.0%	0	8	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	994	1,639	-39.0%	0	0	994	1,628	0	0	0	11
New Jersey	47	55	-15.0%	0	0	47	55	0	0	0	0
New York	0	3	-100.0%	0	0	0	3	0	0	0	0
Pennsylvania	947	1,581	-40.0%	0	0	947	1,570	0	0	0	11
East North Central	7,743	9,247	-16.0%	4,583	5,640	3,024	3,424	0	0	136	183
Illinois	1,812	2,660	-32.0%	215	705	1,461	1,786	0	0	136	169
Indiana	1,942	2,260	-14.0%	1,769	2,062	174	198	0	0	0	0
Michigan	1,329	1,630	-18.0%	1,317	1,599	13	31	0	0	0	0
Ohio	1,535	1,637	-6.2%	159	228	1,376	1,409	0	0	0	0
Wisconsin	1,124	1,061	6.0%	1,124	1,047	0	0	0	0	0	14
West North Central	7,864	9,322	-16.0%	7,626	9,060	0	0	1	1	237	260
Iowa	739	1,420	-48.0%	550	1,230	0	0	0	0	190	190
Kansas	541	1,138	-52.0%	541	1,138	0	0	0	0	0	0
Minnesota	696	821	-15.0%	696	821	0	0	0	0	0	0
Missouri	3,042	2,763	10.0%	3,041	2,761	0	0	1	1	0	0
Nebraska	949	1,107	-14.0%	902	1,037	0	0	0	0	48	71
North Dakota	1,737	1,923	-9.6%	1,737	1,923	0	0	0	0	0	0
South Dakota	160	151	6.4%	160	151	0	0	0	0	0	0
South Atlantic	4,647	5,671	-18.0%	4,016	4,958	580	668	0	0	50	45
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	519	824	-37.0%	519	824	0	0	0	0	0	0
Georgia	848	1,040	-18.0%	837	1,030	0	0	0	0	11	10
Maryland	137	269	-49.0%	0	0	137	269	0	0	0	0
North Carolina	717	1,034	-31.0%	693	1,002	3	13	0	0	21	19
South Carolina	434	249	74.0%	417	230	18	20	0	0	0	0
Virginia	74	137	-46.0%	56	121	0	0	0	0	18	15
West Virginia	1,917	2,119	-9.5%	1,495	1,752	423	367	0	0	0	0
East South Central	3,676	4,547	-19.0%	3,623	4,319	4	169	0	0	49	59
Alabama	1,001	1,413	-29.0%	1,001	1,413	0	0	0	0	0	0
Kentucky	2,145	2,354	-8.9%	2,145	2,354	0	0	0	0	0	0
Mississippi	231	345	-33.0%	227	175	4	169	0	0	0	0
Tennessee	299	435	-31.0%	250	377	0	0	0	0	49	59
West South Central	6,126	7,131	-14.0%	2,587	3,013	3,536	4,096	0	0	3	22
Arkansas	810	1,002	-19.0%	660	781	148	215	0	0	3	6
Louisiana	240	439	-45.0%	75	308	164	131	0	0	0	0
Oklahoma	236	107	120.0%	236	91	0	0	0	0	0	16
Texas	4,840	5,583	-13.0%	1,616	1,833	3,224	3,751	0	0	0	0
Mountain	5,243	6,489	-19.0%	4,765	5,534	478	955	0	0	0	0
Arizona	808	803	0.7%	808	803	0	0	0	0	0	0
Colorado	998	1,108	-9.9%	998	1,108	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	356	842	-58.0%	16	25	340	816	0	0	0	0
Nevada	108	97	12.0%	49	36	59	61	0	0	0	0
New Mexico	393	714	-45.0%	393	714	0	0	0	0	0	0
Utah	984	880	12.0%	950	843	34	38	0	0	0	0
Wyoming	1,596	2,045	-22.0%	1,551	2,005	45	40	0	0	0	0
Pacific Contiguous	559	681	-18.0%	0	161	515	455	0	0	44	65
California	44	65	-33.0%	0	0	0	0	0	0	44	65
Oregon	0	161	-100.0%	0	161	0	0	0	0	0	0
Washington	515	455	13.0%	0	0	515	455	0	0	0	0
Pacific Noncontiguous	41	102	-59.0%	41	34	0	68	0	0	0	0
Alaska	41	34	21.0%	41	34	0	0	0	0	0	0
Hawaii	0	68	-100.0%	0	0	0	68	0	0	0	0
U.S. Total	36,897	44,843	-18.0%	27,241	32,728	9,135	11,469	1	1	519	645

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

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	124	120	3.9%	72	57	52	63	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	52	63	-17.0%	0	0	52	63	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	72	57	27.0%	72	57	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	9,891	18,004	-45.0%	37	0	9,789	17,938	0	0	65	65
New Jersey	447	496	-9.7%	0	0	447	496	0	0	0	0
New York	0	77	-100.0%	0	0	0	77	0	0	0	0
Pennsylvania	9,444	17,431	-46.0%	37	0	9,342	17,366	0	0	65	65
East North Central	83,439	112,195	-26.0%	48,987	65,708	32,783	44,761	0	0	1,669	1,727
Illinois	21,842	31,800	-31.0%	3,436	6,159	16,750	23,998	0	0	1,655	1,644
Indiana	20,687	26,002	-20.0%	18,482	24,075	2,206	1,926	0	0	0	0
Michigan	13,393	19,802	-32.0%	13,172	19,600	221	202	0	0	1	1
Ohio	15,416	20,962	-26.0%	1,809	2,326	13,606	18,635	0	0	0	0
Wisconsin	12,102	13,629	-11.0%	12,088	13,547	0	0	0	0	13	82
West North Central	87,600	97,381	-10.0%	85,160	94,619	0	0	5	8	2,435	2,754
Iowa	12,052	14,673	-18.0%	10,207	12,611	0	0	0	0	1,845	2,062
Kansas	10,458	10,252	2.0%	10,458	10,252	0	0	0	0	0	0
Minnesota	6,832	10,803	-37.0%	6,832	10,803	0	0	0	0	0	0
Missouri	27,243	28,005	-2.7%	27,238	27,997	0	0	5	8	0	0
Nebraska	10,930	12,304	-11.0%	10,340	11,612	0	0	0	0	590	692
North Dakota	19,199	19,753	-2.8%	19,199	19,753	0	0	0	0	0	0
South Dakota	886	1,592	-44.0%	886	1,592	0	0	0	0	0	0
South Atlantic	44,851	71,292	-37.0%	39,774	62,977	4,590	7,616	0	0	487	699
Delaware	0	71	-100.0%	0	0	0	71	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,897	8,685	-32.0%	5,876	8,642	0	0	0	0	21	43
Georgia	6,348	14,323	-56.0%	6,257	14,198	0	0	0	0	92	125
Maryland	1,178	2,613	-55.0%	0	0	1,178	2,521	0	0	0	92
North Carolina	7,455	11,764	-37.0%	7,193	11,518	61	53	0	0	200	193
South Carolina	4,137	6,831	-39.0%	3,956	6,636	170	181	0	0	11	15
Virginia	1,349	2,417	-44.0%	1,186	1,895	0	292	0	0	163	231
West Virginia	18,486	24,587	-25.0%	15,306	20,088	3,180	4,499	0	0	0	0
East South Central	38,429	51,172	-25.0%	35,669	48,087	2,276	2,548	0	0	483	538
Alabama	10,495	13,737	-24.0%	10,495	13,737	0	0	0	0	0	0
Kentucky	20,439	27,650	-26.0%	20,439	27,650	0	0	0	0	0	0
Mississippi	3,494	4,032	-13.0%	1,218	1,484	2,276	2,548	0	0	0	0
Tennessee	4,001	5,754	-30.0%	3,518	5,216	0	0	0	0	483	538
West South Central	66,576	84,259	-21.0%	30,927	43,171	35,573	40,895	0	0	76	193
Arkansas	8,992	13,054	-31.0%	7,085	11,012	1,861	1,986	0	0	46	56
Louisiana	3,195	5,503	-42.0%	1,999	4,247	1,196	1,256	0	0	0	0
Oklahoma	3,564	4,594	-22.0%	3,533	4,456	0	0	0	0	30	138
Texas	50,825	61,109	-17.0%	18,311	23,455	32,515	37,653	0	0	0	0
Mountain	59,737	73,742	-19.0%	53,906	64,409	5,831	9,333	0	0	0	0
Arizona	7,567	12,488	-39.0%	7,567	12,488	0	0	0	0	0	0
Colorado	10,538	12,744	-17.0%	10,538	12,744	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4,692	8,163	-43.0%	193	255	4,498	7,908	0	0	0	0
Nevada	984	1,559	-37.0%	424	985	560	574	0	0	0	0
New Mexico	6,739	7,855	-14.0%	6,739	7,855	0	0	0	0	0	0
Utah	11,588	10,340	12.0%	11,296	9,969	292	371	0	0	0	0
Wyoming	17,628	20,592	-14.0%	17,148	20,112	480	480	0	0	0	0
Pacific Contiguous	4,148	6,212	-33.0%	525	1,409	3,100	4,301	0	0	522	501
California	522	501	4.2%	0	0	0	0	0	0	522	501
Oregon	525	1,409	-63.0%	525	1,409	0	0	0	0	0	0
Washington	3,100	4,301	-28.0%	0	0	3,100	4,301	0	0	0	0
Pacific Noncontiguous	907	910	-0.3%	305	295	602	615	0	0	0	0
Alaska	305	295	3.6%	305	295	0	0	0	0	0	0
Hawaii	602	615	-2.2%	0	0	602	615	0	0	0	0
U.S. Total	395,701	515,286	-23.0%	295,364	380,730	94,596	128,071	5	8	5,737	6,476

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

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

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, November 2020 and 2019
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	4	13	-70.0%	0	1	4	13	0	0	0	0
Connecticut	0	0	75.0%	0	0	0	0	0	0	0	0
Maine	3	4	-22.0%	0	0	3	4	0	0	0	0
Massachusetts	0	8	-100.0%	0	0	0	7	0	0	0	0
New Hampshire	0	1	-69.0%	0	1	0	0	0	0	0	0
Rhode Island	0	1	-100.0%	0	0	0	1	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	96	209	-54.0%	0	153	89	48	0	0	7	7
New Jersey	1	17	-96.0%	0	0	1	17	0	0	0	0
New York	76	160	-53.0%	0	153	76	6	0	0	0	1
Pennsylvania	19	31	-38.0%	0	0	12	25	0	0	7	6
East North Central	42	55	-25.0%	34	42	6	12	0	0	1	2
Illinois	3	5	-46.0%	0	1	3	5	0	0	0	0
Indiana	23	21	9.3%	23	21	0	0	0	0	0	0
Michigan	11	10	16.0%	11	9	0	0	0	0	0	1
Ohio	4	18	-75.0%	1	10	4	7	0	0	0	1
Wisconsin	0	2	-100.0%	0	2	0	0	0	0	0	0
West North Central	45	52	-14.0%	45	52	0	0	0	0	0	0
Iowa	14	13	3.3%	14	13	0	0	0	0	0	0
Kansas	13	12	11.0%	13	12	0	0	0	0	0	0
Minnesota	2	6	-60.0%	2	6	0	0	0	0	0	0
Missouri	12	17	-33.0%	12	17	0	0	0	0	0	0
Nebraska	1	1	40.0%	1	1	0	0	0	0	0	0
North Dakota	4	3	34.0%	4	3	0	0	0	0	0	0
South Dakota	0	1	-100.0%	0	1	0	0	0	0	0	0
South Atlantic	57	86	-33.0%	35	53	17	20	0	0	5	13
Delaware	2	0	--	0	0	2	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3	9	-71.0%	2	4	0	0	0	0	0	6
Georgia	7	15	-56.0%	6	12	1	0	0	0	0	3
Maryland	2	17	-90.0%	0	0	2	17	0	0	0	0
North Carolina	8	16	-48.0%	4	12	0	0	0	0	4	4
South Carolina	9	12	-20.0%	9	12	0	0	0	0	0	0
Virginia	14	8	72.0%	1	6	13	2	0	0	0	0
West Virginia	13	8	56.0%	13	8	0	0	0	0	0	0
East South Central	13	26	-49.0%	13	19	0	6	0	0	0	1
Alabama	0	8	-100.0%	0	2	0	6	0	0	0	0
Kentucky	7	11	-40.0%	7	11	0	0	0	0	0	0
Mississippi	0	2	-78.0%	0	2	0	0	0	0	0	0
Tennessee	6	5	18.0%	6	4	0	0	0	0	0	1
West South Central	18	21	-16.0%	15	18	3	3	0	0	0	0
Arkansas	9	16	-42.0%	6	13	3	3	0	0	0	0
Louisiana	4	3	34.0%	4	3	0	0	0	0	0	0
Oklahoma	1	2	-69.0%	1	2	0	0	0	0	0	0
Texas	4	1	477.0%	4	1	0	0	0	0	0	0
Mountain	26	20	30.0%	23	20	3	1	0	0	0	0
Arizona	2	8	-69.0%	2	8	0	0	0	0	0	0
Colorado	2	0	--	2	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	0	--	0	0	3	0	0	0	0	0
Nevada	0	2	-100.0%	0	1	0	1	0	0	0	0
New Mexico	7	3	145.0%	7	3	0	0	0	0	0	0
Utah	5	2	165.0%	5	2	0	0	0	0	0	0
Wyoming	7	6	9.7%	7	6	0	0	0	0	0	0
Pacific Contiguous	6	4	63.0%	5	3	1	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	3	-100.0%	0	3	0	0	0	0	0	0
Washington	6	1	421.0%	5	0	1	1	0	0	0	0
Pacific Noncontiguous	462	830	-44.0%	462	652	0	178	0	0	0	0
Alaska	1	2	-58.0%	1	2	0	0	0	0	0	0
Hawaii	462	828	-44.0%	462	650	0	178	0	0	0	0
U.S. Total	769	1,316	-42.0%	633	1,013	123	281	0	0	14	22

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	380	247	54.0%	7	15	373	232	0	0	0	0
Connecticut	99	7	NM	0	0	99	7	0	0	0	0
Maine	165	146	13.0%	0	0	165	146	0	0	0	0
Massachusetts	103	65	59.0%	5	5	98	59	0	0	0	0
New Hampshire	14	10	41.0%	2	10	12	0	0	0	0	0
Rhode Island	0	19	-100.0%	0	0	0	19	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	374	1,159	-68.0%	15	619	296	474	0	0	63	66
New Jersey	69	51	35.0%	0	0	69	51	0	0	0	0
New York	103	735	-86.0%	15	619	87	115	0	0	0	1
Pennsylvania	203	373	-46.0%	0	0	140	308	0	0	63	65
East North Central	681	862	-21.0%	435	526	224	305	0	0	23	30
Illinois	51	86	-41.0%	3	3	48	83	0	0	0	0
Indiana	241	201	20.0%	241	201	0	0	0	0	0	0
Michigan	166	141	18.0%	153	129	0	0	0	0	14	12
Ohio	191	385	-50.0%	14	152	168	215	0	0	9	18
Wisconsin	32	49	-35.0%	25	41	7	8	0	0	0	0
West North Central	452	558	-19.0%	452	556	0	2	0	0	0	0
Iowa	105	107	-2.5%	105	107	0	0	0	0	0	0
Kansas	117	132	-11.0%	117	132	0	0	0	0	0	0
Minnesota	21	69	-69.0%	21	66	0	2	0	0	0	0
Missouri	123	159	-23.0%	123	159	0	0	0	0	0	0
Nebraska	4	17	-79.0%	4	17	0	0	0	0	0	0
North Dakota	77	62	23.0%	77	62	0	0	0	0	0	0
South Dakota	5	12	-54.0%	5	12	0	0	0	0	0	0
South Atlantic	1,172	1,553	-25.0%	789	1,220	230	183	0	0	153	150
Delaware	26	6	341.0%	0	0	26	6	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	171	419	-59.0%	141	384	0	0	0	0	29	35
Georgia	147	214	-32.0%	111	140	2	4	0	0	34	71
Maryland	175	154	14.0%	0	0	175	154	0	0	0	0
North Carolina	178	223	-20.0%	128	193	0	4	0	0	50	27
South Carolina	100	93	8.2%	80	85	2	2	0	0	18	6
Virginia	153	238	-36.0%	105	213	26	14	0	0	22	11
West Virginia	223	206	8.7%	223	206	0	0	0	0	0	0
East South Central	197	263	-25.0%	186	243	0	14	0	0	11	6
Alabama	6	31	-81.0%	6	17	0	14	0	0	0	0
Kentucky	107	124	-14.0%	107	124	0	0	0	0	0	0
Mississippi	9	21	-56.0%	9	21	0	0	0	0	0	0
Tennessee	75	87	-14.0%	64	81	0	0	0	0	11	6
West South Central	207	213	-2.7%	159	168	49	45	0	0	0	0
Arkansas	72	69	4.6%	51	47	21	22	0	0	0	0
Louisiana	10	30	-67.0%	10	30	0	0	0	0	0	0
Oklahoma	49	35	42.0%	49	35	0	0	0	0	0	0
Texas	76	80	-4.2%	48	56	28	23	0	0	0	0
Mountain	319	330	-3.4%	297	305	21	25	0	0	0	0
Arizona	69	112	-38.0%	69	112	0	0	0	0	0	0
Colorado	5	5	13.0%	5	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	18	-17.0%	0	0	15	18	0	0	0	0
Nevada	11	24	-53.0%	9	19	2	5	0	0	0	0
New Mexico	46	43	7.7%	46	43	0	0	0	0	0	0
Utah	84	66	27.0%	80	64	4	2	0	0	0	0
Wyoming	89	63	41.0%	89	63	0	0	0	0	0	0
Pacific Contiguous	16	24	-31.0%	5	9	11	15	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	3	-100.0%	0	3	0	0	0	0	0	0
Washington	16	21	-23.0%	5	6	11	15	0	0	0	0
Pacific Noncontiguous	6,946	8,174	-15.0%	5,600	6,458	1,347	1,715	0	0	0	0
Alaska	23	23	2.1%	23	23	0	0	0	0	0	0
Hawaii	6,923	8,151	-15.0%	5,576	6,435	1,347	1,715	0	0	0	0
U.S. Total	10,745	13,383	-20.0%	7,945	10,120	2,550	3,011	0	0	250	252

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, November 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	23	18	27.0%	23	18	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	18	14	34.0%	18	14	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	4	4	6.0%	4	4	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	38	76	-50.0%	38	76	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	38	76	-50.0%	38	76	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	107	139	-23.0%	107	139	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	107	139	-23.0%	107	139	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	167	232	-28.0%	167	232	0	0	0	0	0	0

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

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

Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	375	284	32.0%	375	284	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	334	244	37.0%	334	244	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	41	40	3.3%	41	40	0	0	0	0	0	0
West North Central	80	73	9.1%	0	0	0	0	0	0	80	73
Iowa	80	73	9.1%	0	0	0	0	0	0	80	73
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	561	429	31.0%	561	429	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	561	429	31.0%	561	429	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	1,165	1,000	16.0%	1,165	1,000	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,165	1,000	16.0%	1,165	1,000	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,181	1,786	22.0%	2,101	1,713	0	0	0	0	80	73

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Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, November 2020 and 2019
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	21,928	24,824	-12.0%	4	9	21,924	24,815	0	0	0	0
Connecticut	11,352	11,459	-0.9%	0	0	11,352	11,459	0	0	0	0
Maine	0	383	-100.0%	0	0	0	383	0	0	0	0
Massachusetts	5,669	7,161	-21.0%	4	6	5,665	7,155	0	0	0	0
New Hampshire	1,635	1,659	-1.5%	0	3	1,635	1,656	0	0	0	0
Rhode Island	3,272	4,161	-21.0%	0	0	3,272	4,161	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	93,817	99,337	-5.6%	8,579	6,538	84,378	91,909	0	0	860	890
New Jersey	14,971	22,936	-35.0%	0	0	14,971	22,936	0	0	0	0
New York	28,289	26,144	8.2%	8,579	6,538	19,178	19,079	0	0	532	528
Pennsylvania	50,558	50,256	0.6%	0	0	50,229	49,894	0	0	328	362
East North Central	65,435	86,302	-24.0%	19,692	29,516	43,913	55,007	515	533	1,315	1,246
Illinois	2,996	9,921	-70.0%	137	938	2,857	8,983	0	0	2	0
Indiana	12,382	18,226	-32.0%	4,124	7,959	8,257	10,267	0	0	0	0
Michigan	15,200	21,489	-29.0%	3,477	6,865	10,700	13,522	515	533	508	569
Ohio	26,177	25,534	2.5%	4,027	3,215	21,630	21,868	0	0	520	451
Wisconsin	8,680	11,132	-22.0%	7,926	10,540	469	367	0	0	285	226
West North Central	8,421	15,617	-46.0%	7,434	12,752	544	2,175	156	180	287	510
Iowa	2,599	4,526	-43.0%	2,312	4,016	0	0	0	0	287	510
Kansas	1,068	1,194	-11.0%	1,068	1,194	0	0	0	0	0	0
Minnesota	1,702	5,937	-71.0%	1,695	3,760	7	2,175	1	2	0	0
Missouri	2,508	2,325	7.9%	1,815	2,147	537	0	155	178	0	0
Nebraska	127	349	-64.0%	127	349	0	0	0	0	0	0
North Dakota	417	935	-55.0%	417	935	0	0	0	0	0	0
South Dakota	0	351	-100.0%	0	351	0	0	0	0	0	0
South Atlantic	192,100	194,941	-1.5%	160,627	156,412	28,243	35,320	0	0	3,231	3,209
Delaware	1,323	1,260	5.0%	0	0	1,323	1,260	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	94,934	85,911	11.0%	92,214	83,920	2,360	1,616	0	0	361	375
Georgia	29,540	34,849	-15.0%	22,634	27,077	6,065	6,959	0	0	841	813
Maryland	6,691	6,325	5.8%	1,578	678	5,112	5,646	0	0	0	0
North Carolina	20,638	23,850	-13.0%	16,907	18,172	3,457	5,398	0	0	273	280
South Carolina	11,905	12,859	-7.4%	11,546	11,947	237	825	0	0	122	87
Virginia	24,793	28,139	-12.0%	15,695	14,216	8,117	12,937	0	0	982	986
West Virginia	2,277	1,748	30.0%	54	401	1,571	679	0	0	653	668
East South Central	62,623	77,999	-20.0%	45,908	55,842	14,296	19,905	0	0	2,418	2,252
Alabama	21,023	27,595	-24.0%	6,991	8,214	14,032	19,381	0	0	0	0
Kentucky	7,395	9,612	-23.0%	7,144	9,091	250	521	0	0	0	0
Mississippi	24,979	28,043	-11.0%	24,965	28,041	14	3	0	0	0	0
Tennessee	9,226	12,748	-28.0%	6,808	10,496	0	0	0	0	2,418	2,252
West South Central	190,982	223,078	-14.0%	49,762	67,959	89,257	98,269	0	0	51,963	56,850
Arkansas	5,865	9,905	-41.0%	5,552	9,609	144	0	0	0	169	296
Louisiana	42,958	38,658	11.0%	22,646	15,913	2,220	3,247	0	0	18,092	19,498
Oklahoma	15,130	20,670	-27.0%	7,480	14,990	6,988	5,215	0	0	662	466
Texas	127,029	153,845	-17.0%	14,084	27,448	79,905	89,807	0	0	33,040	36,590
Mountain	60,566	61,095	-0.9%	51,318	52,738	9,248	8,312	0	0	0	44
Arizona	28,543	23,313	22.0%	22,417	19,615	6,126	3,698	0	0	0	0
Colorado	8,941	10,305	-13.0%	7,646	8,578	1,294	1,727	0	0	0	0
Idaho	1,329	2,829	-53.0%	1,329	1,642	0	1,187	0	0	0	0
Montana	208	235	-12.0%	208	230	0	5	0	0	0	0
Nevada	10,791	13,047	-17.0%	10,791	13,047	0	0	0	0	0	0
New Mexico	6,378	5,956	7.1%	4,551	4,261	1,827	1,695	0	0	0	0
Utah	4,069	5,098	-20.0%	4,069	5,053	0	0	0	0	0	44
Wyoming	307	313	-1.8%	307	312	0	1	0	0	0	0
Pacific Contiguous	61,676	72,117	-14.0%	22,993	30,798	35,997	38,760	0	0	2,686	2,559
California	49,635	52,207	-4.9%	16,930	19,573	30,020	30,075	0	0	2,686	2,559
Oregon	9,023	12,093	-25.0%	3,782	5,373	5,242	6,720	0	0	0	0
Washington	3,017	7,818	-61.0%	2,282	5,852	735	1,966	0	0	0	0
Pacific Noncontiguous	10	1,412	-99.0%	10	1,412	0	0	0	0	0	0
Alaska	10	1,412	-99.0%	10	1,412	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	757,557	856,721	-12.0%	366,327	413,977	327,799	374,471	671	713	62,760	67,560

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

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

Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	286,201	307,963	-7.1%	1,114	576	285,088	307,387	0	0	0	0
Connecticut	136,777	126,411	8.2%	0	0	136,777	126,411	0	0	0	0
Maine	6,440	8,729	-26.0%	0	0	6,440	8,729	0	0	0	0
Massachusetts	82,909	100,588	-18.0%	904	512	82,005	100,076	0	0	0	0
New Hampshire	25,304	23,532	7.5%	210	64	25,095	23,468	0	0	0	0
Rhode Island	34,771	48,703	-29.0%	0	0	34,771	48,703	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,267,641	1,189,023	6.6%	92,542	80,703	1,165,807	1,099,154	0	0	9,293	9,166
New Jersey	193,035	263,018	-27.0%	0	0	193,035	263,018	0	0	0	0
New York	343,543	329,696	4.2%	92,542	80,703	244,546	242,405	0	0	6,455	6,589
Pennsylvania	731,063	596,309	23.0%	0	0	728,225	593,731	0	0	2,838	2,577
East North Central	943,784	1,037,547	-9.0%	327,250	349,401	597,789	669,112	5,553	6,311	13,191	12,723
Illinois	95,047	144,866	-34.0%	15,137	10,326	79,882	134,518	0	0	28	22
Indiana	183,151	191,841	-4.5%	79,767	89,211	103,384	102,630	0	0	0	0
Michigan	238,597	236,621	0.8%	71,349	74,842	156,392	150,101	5,553	6,311	5,303	5,367
Ohio	302,476	333,673	-9.3%	49,542	57,696	247,633	271,006	0	0	5,301	4,971
Wisconsin	124,513	130,545	-4.6%	111,456	117,326	10,497	10,857	0	0	2,560	2,362
West North Central	143,819	247,021	-42.0%	121,442	206,293	16,967	34,363	1,958	1,975	3,453	4,390
Iowa	47,276	62,429	-24.0%	43,824	58,040	0	0	0	0	3,453	4,390
Kansas	16,692	22,008	-24.0%	16,692	22,008	0	0	0	0	0	0
Minnesota	31,147	75,846	-59.0%	28,971	57,507	2,163	18,327	14	12	0	0
Missouri	42,776	55,886	-23.0%	26,028	37,888	14,805	16,036	1,943	1,963	0	0
Nebraska	2,382	10,739	-78.0%	2,382	10,739	0	0	0	0	0	0
North Dakota	3,546	13,619	-74.0%	3,546	13,619	0	0	0	0	0	0
South Dakota	0	6,493	-100.0%	0	6,493	0	0	0	0	0	0
South Atlantic	2,519,827	2,564,662	-1.7%	2,088,104	2,115,242	396,659	416,801	0	0	35,064	32,620
Delaware	23,853	24,676	-3.3%	0	0	23,853	24,676	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,221,070	1,200,030	1.8%	1,177,399	1,156,572	39,961	39,220	0	0	3,711	4,239
Georgia	335,007	397,687	-16.0%	254,382	299,915	72,155	90,133	0	0	8,470	7,640
Maryland	86,625	90,152	-3.9%	19,391	22,429	67,234	66,572	0	0	0	1,151
North Carolina	270,291	284,636	-5.0%	220,693	222,083	46,615	60,032	0	0	2,983	2,521
South Carolina	166,987	164,308	1.6%	162,338	159,084	2,633	4,358	0	0	2,015	865
Virginia	392,103	380,437	3.1%	252,914	251,077	128,030	119,698	0	0	11,159	9,662
West Virginia	23,890	22,736	5.1%	988	4,083	16,177	12,112	0	0	6,725	6,541
East South Central	877,247	943,473	-7.0%	620,139	682,172	231,637	238,997	0	0	25,471	22,304
Alabama	329,396	373,049	-12.0%	103,579	138,220	225,817	234,829	0	0	0	0
Kentucky	85,927	104,214	-18.0%	80,222	100,153	5,705	4,061	0	0	0	0
Mississippi	349,308	334,782	4.3%	349,193	334,674	115	107	0	0	0	0
Tennessee	112,616	131,428	-14.0%	87,144	109,124	0	0	0	0	25,471	22,304
West South Central	2,690,571	2,994,560	-10.0%	843,897	1,008,621	1,266,354	1,373,444	0	0	580,320	612,495
Arkansas	93,807	147,280	-36.0%	80,258	133,976	11,223	10,868	0	0	2,326	2,435
Louisiana	504,955	519,214	-2.7%	289,938	272,692	29,939	41,238	0	0	185,078	205,284
Oklahoma	287,731	309,021	-6.9%	178,654	203,827	103,235	100,126	0	0	5,841	5,068
Texas	1,804,079	2,019,044	-11.0%	295,047	398,126	1,121,956	1,221,210	0	0	387,075	399,708
Mountain	801,779	755,504	6.1%	680,015	634,348	121,414	120,864	0	0	350	292
Arizona	355,951	317,918	12.0%	278,845	246,241	77,106	71,677	0	0	0	0
Colorado	121,891	111,808	9.0%	103,755	95,570	18,136	16,237	0	0	0	0
Idaho	9,305	22,867	-59.0%	9,305	11,883	0	10,983	0	0	0	0
Montana	2,125	2,562	-17.0%	2,125	2,531	0	31	0	0	0	0
Nevada	168,049	159,211	5.6%	168,049	159,211	0	0	0	0	0	0
New Mexico	84,034	81,474	3.1%	57,878	59,553	26,156	21,922	0	0	0	0
Utah	55,651	56,876	-2.2%	55,301	56,584	0	0	0	0	350	292
Wyoming	4,773	2,789	71.0%	4,758	2,775	15	14	0	0	0	0
Pacific Contiguous	671,505	689,760	-2.6%	245,340	285,791	398,810	378,019	0	0	27,355	25,950
California	528,515	475,382	11.0%	175,133	165,073	326,027	284,359	0	0	27,355	25,950
Oregon	92,735	128,629	-28.0%	35,817	63,423	56,917	65,206	0	0	0	0
Washington	50,256	85,749	-41.0%	34,390	57,295	15,865	28,454	0	0	0	0
Pacific Noncontiguous	313	14,189	-98.0%	313	14,189	0	0	0	0	0	0
Alaska	313	14,189	-98.0%	313	14,189	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	10,202,688	10,743,701	-5.0%	5,020,156	5,377,336	4,480,524	4,638,140	7,511	8,285	694,497	719,939

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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, November 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019
New England	W	W	W	--	3.13	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	3.13	--	--	3.13	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	1.90	W	--	--	W	1.90
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	1.63	W	W	--	--	1.63	W
East North Central	1.90	1.96	-3.1%	2.00	2.08	1.75	1.76
Illinois	W	1.79	W	1.70	2.00	W	1.71
Indiana	W	W	W	2.09	2.07	W	W
Michigan	W	W	W	1.98	2.10	W	W
Ohio	1.73	W	W	1.85	1.80	1.72	W
Wisconsin	1.92	2.22	-14.0%	1.92	2.22	--	--
West North Central	1.54	1.66	-7.2%	1.54	1.66	--	--
Iowa	1.55	1.53	1.3%	1.55	1.53	--	--
Kansas	1.49	1.60	-6.9%	1.49	1.60	--	--
Minnesota	1.93	1.99	-3.0%	1.93	1.99	--	--
Missouri	1.55	1.65	-6.1%	1.55	1.65	--	--
Nebraska	1.20	1.24	-3.2%	1.20	1.24	--	--
North Dakota	1.53	1.92	-20.0%	1.53	1.92	--	--
South Dakota	1.60	1.57	1.9%	1.60	1.57	--	--
South Atlantic	2.34	2.47	-5.3%	2.41	2.47	1.88	2.44
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.49	2.74	-9.1%	2.49	2.74	--	--
Georgia	2.64	2.60	1.5%	2.64	2.60	--	--
Maryland	2.77	2.68	3.4%	--	--	2.77	2.68
North Carolina	W	W	W	2.48	2.54	W	W
South Carolina	W	W	W	3.04	3.45	W	W
Virginia	2.39	2.59	-7.7%	2.39	2.59	--	--
West Virginia	W	2.11	W	2.07	2.12	W	2.02
East South Central	W	W	W	1.93	2.06	W	W
Alabama	2.21	2.26	-2.2%	2.21	2.26	--	--
Kentucky	1.81	1.88	-3.7%	1.81	1.88	--	--
Mississippi	W	W	W	2.35	2.57	W	W
Tennessee	1.77	2.28	-22.0%	1.77	2.28	--	--
West South Central	1.87	1.77	5.6%	2.21	2.06	1.60	1.55
Arkansas	W	W	W	1.84	1.98	W	W
Louisiana	W	W	W	4.83	3.48	W	W
Oklahoma	1.64	1.74	-5.7%	1.64	1.74	--	--
Texas	W	W	W	2.32	1.87	W	W
Mountain	W	W	W	1.94	1.85	W	W
Arizona	2.14	2.25	-4.9%	2.14	2.25	--	--
Colorado	1.72	1.58	8.9%	1.72	1.58	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.43	2.06	W	W
Nevada	W	W	W	2.14	2.64	W	W
New Mexico	2.54	2.64	-3.8%	2.54	2.64	--	--
Utah	1.98	1.97	0.5%	1.98	1.97	--	--
Wyoming	W	W	W	1.78	1.45	W	W
Pacific Contiguous	W	W	W	--	2.30	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.30	--	--	2.30	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	3.37	W	W	3.37	3.67	--	W
Alaska	3.37	3.67	-8.2%	3.37	3.67	--	--
Hawaii	--	W	W	--	--	--	W
U.S. Total	1.90	1.95	-2.6%	1.96	2.01	1.73	1.77

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

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

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	W	W	W	3.12	3.47	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.12	3.47	-10.0%	3.12	3.47	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.79	1.89	-5.3%	2.99	--	1.78	1.89
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	1.83	W	2.99	--	W	1.83
East North Central	1.89	1.98	-4.5%	2.00	2.11	1.74	1.80
Illinois	W	W	W	1.61	1.97	W	W
Indiana	W	W	W	2.08	2.13	W	W
Michigan	W	W	W	2.01	2.09	W	W
Ohio	1.77	1.79	-1.1%	1.87	1.82	1.76	1.79
Wisconsin	1.96	2.23	-12.0%	1.96	2.23	--	--
West North Central	1.55	1.63	-4.9%	1.55	1.63	--	--
Iowa	1.51	1.54	-1.9%	1.51	1.54	--	--
Kansas	1.56	1.62	-3.7%	1.56	1.62	--	--
Minnesota	1.94	2.02	-4.0%	1.94	2.02	--	--
Missouri	1.55	1.67	-7.2%	1.55	1.67	--	--
Nebraska	1.23	1.24	-0.8%	1.23	1.24	--	--
North Dakota	1.60	1.63	-1.8%	1.60	1.63	--	--
South Dakota	1.86	1.77	5.1%	1.86	1.77	--	--
South Atlantic	2.39	2.58	-7.4%	2.44	2.60	1.95	2.39
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.50	2.85	-12.0%	2.50	2.85	--	--
Georgia	2.70	2.70	0.0%	2.70	2.70	--	--
Maryland	W	2.66	W	--	--	W	2.66
North Carolina	W	W	W	2.55	2.81	W	W
South Carolina	W	W	W	3.15	3.21	W	W
Virginia	2.49	W	W	2.49	2.78	--	W
West Virginia	W	2.09	W	2.11	2.11	W	1.96
East South Central	W	W	W	1.96	2.08	W	W
Alabama	2.12	2.32	-8.6%	2.12	2.32	--	--
Kentucky	1.86	1.92	-3.1%	1.86	1.92	--	--
Mississippi	W	W	W	2.63	2.96	W	W
Tennessee	1.93	2.15	-10.0%	1.93	2.15	--	--
West South Central	1.82	1.85	-1.6%	2.08	2.09	1.59	1.58
Arkansas	W	W	W	1.86	1.97	W	W
Louisiana	W	W	W	4.17	3.16	W	W
Oklahoma	1.58	1.73	-8.7%	1.58	1.73	--	--
Texas	W	W	W	2.03	2.02	W	W
Mountain	W	W	W	1.97	2.03	W	W
Arizona	2.15	2.58	-17.0%	2.15	2.58	--	--
Colorado	1.70	1.75	-2.9%	1.70	1.75	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.25	1.95	W	W
Nevada	W	W	W	2.36	2.77	W	W
New Mexico	2.53	2.48	2.0%	2.53	2.48	--	--
Utah	2.05	1.97	4.1%	2.05	1.97	--	--
Wyoming	W	W	W	1.75	1.65	W	W
Pacific Contiguous	W	W	W	2.18	2.28	W	W
California	--	--	--	--	--	--	--
Oregon	2.18	2.28	-4.4%	2.18	2.28	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.44	3.51	W	W
Alaska	3.44	3.51	-2.0%	3.44	3.51	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.91	2.02	-5.4%	1.96	2.09	1.74	1.81

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

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

Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, November 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019
New England	W	14.68	W	14.25	17.63	W	14.33
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	18.52	--	W
New Hampshire	14.25	17.41	-18.0%	14.25	17.41	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	W	W	--	11.64	W	W
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	11.64	W	W
Pennsylvania	W	14.98	W	--	--	W	14.98
East North Central	10.21	15.27	-33.0%	10.19	14.95	10.32	16.43
Illinois	W	17.11	W	--	15.61	W	17.35
Indiana	10.34	14.76	-30.0%	10.34	14.76	--	--
Michigan	9.71	14.60	-33.0%	9.71	14.60	--	--
Ohio	W	15.91	W	14.15	15.97	W	15.83
Wisconsin	--	12.95	--	--	12.95	--	--
West North Central	10.25	14.83	-31.0%	10.25	14.83	--	--
Iowa	9.48	14.87	-36.0%	9.48	14.87	--	--
Kansas	10.27	15.18	-32.0%	10.27	15.18	--	--
Minnesota	10.79	13.92	-22.0%	10.79	13.92	--	--
Missouri	10.69	14.80	-28.0%	10.69	14.80	--	--
Nebraska	11.58	14.64	-21.0%	11.58	14.64	--	--
North Dakota	11.00	15.24	-28.0%	11.00	15.24	--	--
South Dakota	--	14.38	--	--	14.38	--	--
South Atlantic	10.42	14.88	-30.0%	10.52	15.14	10.21	14.17
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	10.59	14.89	-29.0%	10.59	14.89	--	--
Georgia	10.38	W	W	10.38	14.93	--	W
Maryland	W	14.64	W	--	--	W	14.64
North Carolina	9.84	W	W	9.84	14.47	--	W
South Carolina	9.74	15.06	-35.0%	9.74	15.06	--	--
Virginia	W	W	W	15.19	15.68	W	W
West Virginia	11.04	16.28	-32.0%	11.04	16.28	--	--
East South Central	10.68	W	W	10.68	14.56	--	W
Alabama	--	W	W	--	15.05	--	W
Kentucky	10.98	14.69	-25.0%	10.98	14.69	--	--
Mississippi	11.44	14.10	-19.0%	11.44	14.10	--	--
Tennessee	10.26	14.13	-27.0%	10.26	14.13	--	--
West South Central	W	W	W	9.40	14.51	W	W
Arkansas	W	W	W	9.45	14.47	W	W
Louisiana	8.48	14.46	-41.0%	8.48	14.46	--	--
Oklahoma	11.79	15.13	-22.0%	11.79	15.13	--	--
Texas	9.79	14.08	-30.0%	9.79	14.08	--	--
Mountain	W	W	W	13.05	18.61	W	W
Arizona	13.93	18.26	-24.0%	13.93	18.26	--	--
Colorado	12.05	--	--	12.05	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	--	W	W	--	17.09	--	W
New Mexico	13.01	20.15	-35.0%	13.01	20.15	--	--
Utah	W	20.58	W	13.76	20.58	W	--
Wyoming	12.58	17.93	-30.0%	12.58	17.93	--	--
Pacific Contiguous	W	W	W	13.84	12.45	W	W
California	--	--	--	--	--	--	--
Oregon	--	12.45	--	--	12.45	--	--
Washington	W	W	W	13.84	--	W	W
Pacific Noncontiguous	W	W	W	8.73	12.40	W	W
Alaska	12.83	16.34	-21.0%	12.83	16.34	--	--
Hawaii	W	W	W	8.72	12.39	W	W
U.S. Total	9.56	13.00	-26.0%	9.25	12.83	11.19	13.67

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Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	W	11.30	W	10.37	16.42	W	10.98
Connecticut	W	16.62	W	--	--	W	16.62
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	7.37	14.56	W	W
New Hampshire	W	17.43	W	16.99	17.43	W	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	W	W	5.22	11.81	W	W
New Jersey	W	13.59	W	--	--	W	13.59
New York	W	12.26	W	5.22	11.81	W	14.75
Pennsylvania	9.09	W	W	--	--	9.09	W
East North Central	10.14	15.15	-33.0%	9.94	14.70	10.52	15.93
Illinois	W	W	W	10.76	15.69	W	W
Indiana	10.25	14.82	-31.0%	10.25	14.82	--	--
Michigan	9.53	13.94	-32.0%	9.53	13.94	--	--
Ohio	10.39	15.44	-33.0%	10.75	15.44	10.36	15.44
Wisconsin	W	W	W	9.05	13.70	W	W
West North Central	9.69	14.72	-34.0%	9.69	14.72	--	--
Iowa	9.44	14.56	-35.0%	9.44	14.56	--	--
Kansas	9.83	14.95	-34.0%	9.83	14.95	--	--
Minnesota	9.69	14.87	-35.0%	9.69	14.87	--	--
Missouri	9.13	14.73	-38.0%	9.13	14.73	--	--
Nebraska	14.16	14.77	-4.1%	14.16	14.77	--	--
North Dakota	10.55	14.38	-27.0%	10.55	14.38	--	--
South Dakota	8.82	14.18	-38.0%	8.82	14.18	--	--
South Atlantic	10.32	14.47	-29.0%	10.74	14.52	8.75	14.09
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	9.02	15.33	-41.0%	9.02	15.33	--	--
Georgia	W	W	W	10.89	14.92	W	W
Maryland	8.48	14.19	-40.0%	--	--	8.48	14.19
North Carolina	10.58	W	W	10.58	14.66	--	W
South Carolina	W	W	W	10.11	15.08	W	W
Virginia	10.37	W	W	10.51	11.72	9.77	W
West Virginia	12.19	15.44	-21.0%	12.19	15.44	--	--
East South Central	10.29	W	W	10.29	14.52	--	W
Alabama	9.56	W	W	9.56	15.13	--	W
Kentucky	10.38	14.63	-29.0%	10.38	14.63	--	--
Mississippi	10.21	14.32	-29.0%	10.21	14.32	--	--
Tennessee	10.22	14.27	-28.0%	10.22	14.27	--	--
West South Central	9.49	W	W	9.43	14.75	9.66	W
Arkansas	W	W	W	9.70	14.79	W	W
Louisiana	9.98	14.66	-32.0%	9.98	14.66	--	--
Oklahoma	7.86	15.28	-49.0%	7.86	15.28	--	--
Texas	W	W	W	10.66	14.42	W	W
Mountain	12.64	16.82	-25.0%	12.67	16.89	12.24	15.98
Arizona	12.99	16.76	-22.0%	12.99	16.76	--	--
Colorado	11.55	17.73	-35.0%	11.55	17.73	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	14.28	16.15	W	W
New Mexico	12.74	18.83	-32.0%	12.74	18.83	--	--
Utah	W	W	W	12.83	16.80	W	W
Wyoming	12.16	16.12	-25.0%	12.16	16.12	--	--
Pacific Contiguous	W	W	W	13.84	15.30	W	W
California	--	--	--	--	--	--	--
Oregon	--	12.45	--	--	12.45	--	--
Washington	W	W	W	13.84	16.52	W	W
Pacific Noncontiguous	W	W	W	9.38	12.88	W	W
Alaska	11.58	15.65	-26.0%	11.58	15.65	--	--
Hawaii	W	W	W	9.37	12.87	W	W
U.S. Total	9.60	13.63	-30.0%	9.69	13.38	9.31	14.51

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, November 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.35	1.61	-16.0%	1.35	1.61	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.22	1.54	-21.0%	1.22	1.54	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.96	1.83	7.1%	1.96	1.83	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.05	1.89	61.0%	3.05	1.89	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.05	1.89	61.0%	3.05	1.89	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.16	1.21	79.0%	2.16	1.21	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.16	1.21	79.0%	2.16	1.21	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.25	1.46	54.0%	2.25	1.46	--	--

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

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

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.26	1.58	-20.0%	1.26	1.58	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.19	1.53	-22.0%	1.19	1.53	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.88	1.86	1.1%	1.88	1.86	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.16	2.52	-14.0%	2.16	2.52	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.16	2.52	-14.0%	2.16	2.52	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.53	1.90	-19.0%	1.53	1.90	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.53	1.90	-19.0%	1.53	1.90	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.65	2.00	-17.0%	1.65	2.00	--	--

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Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, November 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020	November 2019	Percentage Change	November 2020	November 2019	November 2020	November 2019
New England	W	W	W	3.83	8.11	W	W
Connecticut	2.69	3.51	-23.0%	--	--	2.69	3.51
Maine	--	W	W	--	--	--	W
Massachusetts	W	4.29	W	3.83	4.49	W	4.29
New Hampshire	W	W	W	--	16.00	W	W
Rhode Island	W	3.92	W	--	--	W	3.92
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.82	2.61	-30.0%	2.23	3.31	1.77	2.55
New Jersey	1.46	2.65	-45.0%	--	--	1.46	2.65
New York	2.44	3.00	-19.0%	2.23	3.31	2.56	2.88
Pennsylvania	1.58	2.38	-34.0%	--	--	1.58	2.38
East North Central	2.38	2.76	-14.0%	2.52	2.72	2.32	2.78
Illinois	W	W	W	3.13	3.25	W	W
Indiana	2.37	2.62	-9.5%	2.21	2.65	2.45	2.60
Michigan	2.52	2.73	-7.7%	2.68	2.89	2.46	2.65
Ohio	2.11	2.47	-15.0%	1.76	2.44	2.17	2.48
Wisconsin	W	W	W	3.00	2.71	W	W
West North Central	W	W	W	2.95	2.85	W	W
Iowa	2.34	2.55	-8.2%	2.34	2.55	--	--
Kansas	3.27	2.98	9.7%	3.27	2.98	--	--
Minnesota	W	W	W	3.65	3.21	W	W
Missouri	W	2.63	W	2.79	2.63	W	--
Nebraska	4.81	3.68	31.0%	4.81	3.68	--	--
North Dakota	2.78	2.78	0.0%	2.78	2.78	--	--
South Dakota	--	2.56	--	--	2.56	--	--
South Atlantic	3.63	3.51	3.4%	3.85	3.65	2.25	2.78
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.06	3.86	W	W
Georgia	W	2.95	W	2.91	2.94	W	2.97
Maryland	W	3.31	W	2.43	4.96	W	3.11
North Carolina	W	3.78	W	5.37	4.05	W	2.86
South Carolina	3.07	3.19	-3.8%	3.07	3.19	--	--
Virginia	2.52	3.10	-19.0%	3.09	3.58	1.40	2.39
West Virginia	W	W	W	1.39	2.38	W	W
East South Central	2.94	2.93	0.3%	2.93	2.93	3.01	2.92
Alabama	W	W	W	3.35	3.04	W	W
Kentucky	W	W	W	2.99	3.13	W	W
Mississippi	W	W	W	2.82	2.90	W	W
Tennessee	2.80	2.75	1.8%	2.80	2.75	--	--
West South Central	2.77	2.48	12.0%	2.93	2.51	2.66	2.45
Arkansas	W	2.70	W	2.57	2.70	W	--
Louisiana	W	W	W	2.81	3.00	W	W
Oklahoma	W	W	W	3.60	2.36	W	W
Texas	2.71	2.40	13.0%	2.90	2.24	2.67	2.46
Mountain	3.19	2.78	15.0%	3.23	2.70	2.88	4.07
Arizona	W	W	W	2.94	2.39	W	W
Colorado	W	W	W	3.70	3.21	W	W
Idaho	3.58	3.28	9.1%	3.58	3.28	--	--
Montana	2.27	W	W	2.27	2.02	--	W
Nevada	3.61	3.00	20.0%	3.61	3.00	--	--
New Mexico	2.45	1.73	42.0%	2.45	1.73	--	--
Utah	3.54	2.82	26.0%	3.54	2.82	--	--
Wyoming	W	W	W	2.94	3.08	W	W
Pacific Contiguous	3.83	3.33	15.0%	3.85	3.35	3.80	3.30
California	4.02	3.44	17.0%	4.12	3.59	3.93	3.33
Oregon	W	W	W	2.86	2.53	W	W
Washington	W	W	W	3.67	3.47	W	W
Pacific Noncontiguous	7.82	7.04	11.0%	7.82	7.04	--	--
Alaska	7.82	7.04	11.0%	7.82	7.04	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.99	2.98	0.3%	3.39	3.13	2.45	2.77

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) November 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2020 YTD	November 2019 YTD	Percentage Change	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	W	W	W	2.06	3.45	W	W
Connecticut	2.19	3.36	-35.0%	--	--	2.19	3.36
Maine	W	W	W	--	--	W	W
Massachusetts	3.24	4.21	-23.0%	1.80	3.03	3.26	4.22
New Hampshire	W	W	W	3.17	6.76	W	W
Rhode Island	W	3.12	W	--	--	W	3.12
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.70	2.61	-35.0%	2.20	3.17	1.66	2.57
New Jersey	1.71	2.82	-39.0%	--	--	1.71	2.82
New York	1.98	2.94	-33.0%	2.20	3.17	1.89	2.85
Pennsylvania	1.56	2.35	-34.0%	--	--	1.56	2.35
East North Central	1.96	2.64	-26.0%	2.11	2.72	1.87	2.60
Illinois	W	W	W	1.94	2.95	W	W
Indiana	2.00	2.62	-24.0%	2.08	2.74	1.93	2.52
Michigan	2.01	2.62	-23.0%	2.15	2.73	1.95	2.57
Ohio	1.78	2.46	-28.0%	1.74	2.58	1.79	2.43
Wisconsin	W	W	W	2.30	2.75	W	W
West North Central	W	W	W	2.22	2.70	W	W
Iowa	1.88	2.50	-25.0%	1.88	2.50	--	--
Kansas	2.54	2.68	-5.2%	2.54	2.68	--	--
Minnesota	W	W	W	2.55	2.94	W	W
Missouri	W	W	W	2.07	2.48	W	W
Nebraska	3.29	2.86	15.0%	3.29	2.86	--	--
North Dakota	2.58	3.13	-18.0%	2.58	3.13	--	--
South Dakota	--	2.55	--	--	2.55	--	--
South Atlantic	2.81	3.42	-18.0%	2.94	3.51	1.98	2.80
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.72	W	3.11	3.72	W	3.41
Georgia	W	2.89	W	2.30	2.89	W	2.91
Maryland	2.26	3.10	-27.0%	2.39	3.49	2.22	2.97
North Carolina	W	3.57	W	3.42	3.78	W	2.79
South Carolina	2.65	3.17	-16.0%	2.65	3.17	--	--
Virginia	2.32	3.11	-25.0%	2.61	3.32	1.54	2.50
West Virginia	W	2.19	W	1.83	2.19	W	2.20
East South Central	2.33	2.85	-18.0%	2.36	2.86	2.24	2.80
Alabama	W	W	W	2.42	2.88	W	W
Kentucky	W	W	W	2.83	3.19	W	W
Mississippi	W	W	W	2.23	2.75	W	W
Tennessee	2.38	2.85	-16.0%	2.38	2.85	--	--
West South Central	2.06	2.42	-15.0%	2.09	2.40	2.03	2.45
Arkansas	W	W	W	2.02	2.62	W	W
Louisiana	W	W	W	2.18	2.72	W	W
Oklahoma	W	W	W	2.24	2.41	W	W
Texas	2.02	2.36	-14.0%	1.92	2.09	2.05	2.46
Mountain	2.44	2.56	-4.7%	2.41	2.52	2.76	2.99
Arizona	W	W	W	2.34	2.08	W	W
Colorado	W	W	W	2.78	3.07	W	W
Idaho	2.56	4.14	-38.0%	2.56	4.14	--	--
Montana	1.69	W	W	1.69	1.53	--	W
Nevada	2.58	2.97	-13.0%	2.58	2.97	--	--
New Mexico	1.50	1.22	23.0%	1.50	1.22	--	--
Utah	2.44	3.01	-19.0%	2.44	3.01	--	--
Wyoming	W	W	W	2.20	3.12	W	W
Pacific Contiguous	3.03	3.42	-11.0%	3.02	3.43	3.03	3.42
California	3.19	3.75	-15.0%	3.29	4.10	3.12	3.48
Oregon	W	W	W	2.06	2.13	W	W
Washington	W	W	W	2.87	3.24	W	W
Pacific Noncontiguous	7.85	6.94	13.0%	7.85	6.94	--	--
Alaska	7.85	6.94	13.0%	7.85	6.94	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.34	2.89	-19.0%	2.57	3.02	2.02	2.70

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

Notes:
See Glossary for definitions. Values for 2019 are final. Values for 2020 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, November 2020

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	4	0.58	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.58	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	752	2.60	9.2	0	--	--	0	--	--
New Jersey	47	1.64	7.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	705	2.66	9.3	0	--	--	0	--	--
East North Central	4,136	3.27	10.5	3,607	0.24	4.7	0	--	--
Illinois	622	3.40	20.4	1,191	0.20	4.5	0	--	--
Indiana	1,857	2.89	9.3	85	0.32	4.8	0	--	--
Michigan	75	2.15	7.5	1,254	0.28	4.7	0	--	--
Ohio	1,520	3.75	9.1	16	0.32	5.1	0	--	--
Wisconsin	63	2.45	7.5	1,061	0.24	4.9	0	--	--
West North Central	63	3.18	9.1	6,065	0.27	5.0	1,737	0.71	9.8
Iowa	51	3.26	8.6	688	0.25	4.9	0	--	--
Kansas	10	2.81	12.0	531	0.33	4.9	0	--	--
Minnesota	0	--	--	696	0.36	6.2	0	--	--
Missouri	1	2.89	7.7	3,041	0.24	4.8	0	--	--
Nebraska	0	--	--	949	0.23	4.7	0	--	--
North Dakota	0	--	--	0	--	--	1,737	0.71	9.8
South Dakota	0	--	--	160	0.68	5.3	0	--	--
South Atlantic	4,176	2.57	9.5	471	0.32	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	519	2.66	8.4	0	--	--	0	--	--
Georgia	378	2.54	8.4	471	0.32	4.9	0	--	--
Maryland	137	2.37	12.7	0	--	--	0	--	--
North Carolina	717	1.50	9.2	0	--	--	0	--	--
South Carolina	434	1.81	8.9	0	--	--	0	--	--
Virginia	74	1.94	7.8	0	--	--	0	--	--
West Virginia	1,917	3.16	10.1	0	--	--	0	--	--
East South Central	2,350	2.68	9.3	1,321	0.29	5.3	4	0.38	12.2
Alabama	251	0.91	11.2	749	0.31	5.3	0	--	--
Kentucky	1,748	2.97	9.2	397	0.22	5.2	0	--	--
Mississippi	52	2.88	8.1	175	0.35	5.4	4	0.38	12.2
Tennessee	299	2.30	8.4	0	--	--	0	--	--
West South Central	41	2.81	8.9	4,286	0.28	5.0	1,800	0.99	16.5
Arkansas	3	0.54	9.6	807	0.21	4.8	0	--	--
Louisiana	37	3.02	8.9	194	0.29	5.0	8	0.53	16.4
Oklahoma	0	--	--	236	0.20	4.7	0	--	--
Texas	0	--	--	3,049	0.30	5.1	1,792	0.99	16.5
Mountain	1,309	0.58	13.3	3,883	0.50	8.1	16	0.51	8.8
Arizona	0	--	--	808	0.60	9.5	0	--	--
Colorado	136	0.50	9.8	863	0.36	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	340	0.67	8.7	16	0.51	8.8
Nevada	49	0.39	9.4	59	0.33	5.4	0	--	--
New Mexico	220	0.99	25.0	173	0.90	20.3	0	--	--
Utah	905	0.52	11.7	45	0.99	10.0	0	--	--
Wyoming	0	--	--	1,596	0.43	7.2	0	--	--
Pacific Contiguous	44	0.39	8.7	515	0.35	8.0	0	--	--
California	44	0.39	8.7	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	515	0.35	8.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	23	0.16	9.6
Alaska	0	--	--	0	--	--	23	0.16	9.6
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,875	2.62	10.1	20,148	0.32	5.7	3,580	0.85	13.1

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

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

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, November 2020

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	2,053	2.92	9.2	2,530	0.26	4.8	0	--	--
Illinois	85	2.53	10.7	130	0.20	4.7	0	--	--
Indiana	1,683	2.89	9.3	85	0.32	4.8	0	--	--
Michigan	63	2.47	7.6	1,254	0.28	4.7	0	--	--
Ohio	159	3.76	8.8	0	--	--	0	--	--
Wisconsin	63	2.45	7.5	1,061	0.24	4.9	0	--	--
West North Central	10	2.81	12.0	5,879	0.28	5.0	1,737	0.71	9.8
Iowa	0	--	--	550	0.26	5.0	0	--	--
Kansas	10	2.81	12.0	531	0.33	4.9	0	--	--
Minnesota	0	--	--	696	0.36	6.2	0	--	--
Missouri	0	--	--	3,041	0.24	4.8	0	--	--
Nebraska	0	--	--	902	0.23	4.7	0	--	--
North Dakota	0	--	--	0	--	--	1,737	0.71	9.8
South Dakota	0	--	--	160	0.68	5.3	0	--	--
South Atlantic	3,546	2.57	9.5	471	0.32	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	519	2.66	8.4	0	--	--	0	--	--
Georgia	366	2.59	8.4	471	0.32	4.9	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	693	1.53	9.3	0	--	--	0	--	--
South Carolina	417	1.84	8.9	0	--	--	0	--	--
Virginia	56	2.31	8.0	0	--	--	0	--	--
West Virginia	1,495	3.22	10.4	0	--	--	0	--	--
East South Central	2,302	2.72	9.4	1,321	0.29	5.3	0	--	--
Alabama	251	0.91	11.2	749	0.31	5.3	0	--	--
Kentucky	1,748	2.97	9.2	397	0.22	5.2	0	--	--
Mississippi	52	2.88	8.1	175	0.35	5.4	0	--	--
Tennessee	250	2.60	8.6	0	--	--	0	--	--
West South Central	37	3.02	8.9	2,142	0.25	4.9	408	1.33	19.0
Arkansas	0	--	--	660	0.21	4.7	0	--	--
Louisiana	37	3.02	8.9	30	0.20	4.9	8	0.53	16.4
Oklahoma	0	--	--	236	0.20	4.7	0	--	--
Texas	0	--	--	1,216	0.28	5.1	400	1.35	19.1
Mountain	1,309	0.58	13.3	3,439	0.49	8.1	16	0.51	8.8
Arizona	0	--	--	808	0.60	9.5	0	--	--
Colorado	136	0.50	9.8	863	0.36	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	16	0.51	8.8
Nevada	49	0.39	9.4	0	--	--	0	--	--
New Mexico	220	0.99	25.0	173	0.90	20.3	0	--	--
Utah	905	0.52	11.7	45	0.99	10.0	0	--	--
Wyoming	0	--	--	1,551	0.43	7.3	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	23	0.16	9.6
Alaska	0	--	--	0	--	--	23	0.16	9.6
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	9,257	2.42	9.9	15,782	0.32	5.7	2,184	0.81	11.4

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

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, November 2020

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	4	0.58	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.58	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	752	2.60	9.2	0	--	--	0	--	--
New Jersey	47	1.64	7.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	705	2.66	9.3	0	--	--	0	--	--
East North Central	1,983	3.62	11.8	1,040	0.20	4.5	0	--	--
Illinois	437	3.57	26.1	1,024	0.20	4.4	0	--	--
Indiana	174	2.90	9.0	0	--	--	0	--	--
Michigan	13	0.48	7.2	0	--	--	0	--	--
Ohio	1,360	3.74	9.1	16	0.32	5.1	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	580	2.75	9.8	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	137	2.37	12.7	0	--	--	0	--	--
North Carolina	3	0.82	6.7	0	--	--	0	--	--
South Carolina	18	1.14	9.3	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	423	2.95	8.9	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	4	0.38	12.2
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	4	0.38	12.2
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	2,144	0.30	5.2	1,392	0.90	15.8
Arkansas	0	--	--	148	0.20	5.1	0	--	--
Louisiana	0	--	--	164	0.31	5.0	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	1,832	0.31	5.2	1,392	0.90	15.8
Mountain	0	--	--	444	0.59	7.9	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	340	0.67	8.7	0	--	--
Nevada	0	--	--	59	0.33	5.4	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	45	0.30	5.2	0	--	--
Pacific Contiguous	0	--	--	515	0.35	8.0	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	515	0.35	8.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	3,320	3.21	10.8	4,143	0.31	5.6	1,396	0.90	15.8

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

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, November 2020

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	1	2.89	7.7	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	1	2.89	7.7	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	1	2.89	7.7	0	--	--	0	--	--

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

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

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, November 2020

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	100	3.50	8.5	37	0.22	5.7	0	--	--
Illinois	100	3.50	8.5	37	0.22	5.7	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	51	3.26	8.6	186	0.21	4.4	0	--	--
Iowa	51	3.26	8.6	138	0.21	4.4	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	48	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	50	0.75	7.5	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	11	0.80	9.9	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	21	0.74	6.7	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	18	0.75	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	49	0.92	7.2	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	49	0.92	7.2	0	--	--	0	--	--
West South Central	3	0.54	9.6	0	--	--	0	--	--
Arkansas	3	0.54	9.6	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	44	0.39	8.7	0	--	--	0	--	--
California	44	0.39	8.7	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	297	2.00	8.1	222	0.21	4.6	0	--	--

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

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

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

Chapter 5

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

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - November 2020 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,411,058	1,367,191	976,715	7,497	3,762,462
2017	1,378,648	1,352,888	984,298	7,523	3,723,356
2018	1,469,093	1,381,755	1,000,673	7,665	3,859,185
2019	1,440,289	1,360,877	1,002,353	7,632	3,811,150
Year 2018					
January	148,917	114,925	79,890	745	344,478
February	113,751	102,685	75,661	634	292,732
March	107,218	108,108	81,053	620	296,999
April	95,454	103,331	79,083	599	278,468
May	103,848	113,175	85,638	587	303,248
June	129,913	122,011	85,536	623	338,083
July	153,566	131,522	89,301	634	375,023
August	153,496	134,848	92,106	680	381,131
Sept	128,910	122,033	85,679	640	337,263
October	107,049	116,133	85,301	631	309,114
November	103,790	104,983	81,118	616	290,507
December	123,180	107,998	80,306	655	312,140
Year 2019					
January	133,318	112,012	82,610	670	328,609
February	116,608	102,071	76,447	672	295,798
March	112,605	107,468	81,093	686	301,853
April	90,384	102,446	80,460	610	273,900
May	100,331	111,201	84,661	608	296,802
June	120,116	115,745	84,992	608	321,462
July	153,749	130,951	90,752	642	376,095
August	150,083	130,776	91,062	653	372,574
Sept	131,567	122,059	86,160	677	340,463
October	107,997	115,305	84,396	543	308,241
November	102,453	102,840	79,625	614	285,532
December	121,078	108,001	80,095	648	309,823
Year 2020					
January	124,414	108,857	77,426	664	311,361
February	111,931	101,905	75,650	622	290,109
March	104,006	102,937	77,565	577	285,085
April	97,465	90,631	69,591	458	258,145
May	105,412	93,406	71,220	448	270,486
June	131,242	108,695	75,211	480	315,628
July	166,891	125,994	81,276	555	374,716
August	158,821	122,025	82,582	562	363,990
Sept	127,584	112,214	77,505	494	317,796
October	105,537	107,778	81,861	562	295,738
November	99,385	97,076	75,851	525	272,838
Year to Date					
2018	1,345,913	1,273,757	920,366	7,010	3,547,046
2019	1,319,211	1,252,875	922,258	6,984	3,501,328
2020	1,332,689	1,171,518	845,737	5,946	3,355,890
Rolling 12 Months Ending in November					
2019	1,442,391	1,360,873	1,002,564	7,639	3,813,467
2020	1,453,767	1,279,519	925,832	6,595	3,665,713

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2019 and prior years are final. Values for 2020 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - November 2020 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	177,077	142,643	66,068	722	386,509
2017	177,661	144,242	67,691	728	390,322
2018	189,033	147,425	69,218	744	406,420
2019	187,436	145,280	68,285	737	401,738
Year 2018					
January	18,193	12,053	5,543	70	35,859
February	14,364	10,936	5,128	62	30,490
March	13,905	11,365	5,373	58	30,701
April	12,290	10,806	5,194	57	28,347
May	13,625	11,890	5,819	55	31,388
June	16,922	13,223	6,136	64	36,344
July	20,156	14,466	6,540	64	41,226
August	20,351	14,874	6,673	65	41,963
Sept	16,775	13,085	6,038	64	35,962
October	13,751	12,506	5,864	62	32,182
November	13,389	11,069	5,557	60	30,074
December	15,311	11,155	5,353	64	31,883
Year 2019					
January	16,620	11,541	5,433	66	33,660
February	14,831	10,761	5,116	67	30,775
March	14,457	11,238	5,454	63	31,212
April	11,976	10,777	5,239	58	28,050
May	13,356	11,725	5,667	58	30,805
June	16,005	12,618	5,843	61	34,526
July	20,382	14,433	6,476	63	41,354
August	19,955	14,407	6,739	63	41,164
Sept	17,317	13,379	6,085	66	36,847
October	13,837	12,380	5,770	53	32,039
November	13,346	10,874	5,350	58	29,629
December	15,354	11,146	5,112	61	31,674
Year 2020					
January	15,913	11,143	4,901	64	32,020
February	14,382	10,560	4,852	59	29,853
March	13,611	10,714	4,950	57	29,331
April	12,947	9,442	4,454	44	26,887
May	13,866	9,767	4,654	42	28,329
June	17,425	11,900	5,217	50	34,592
July	22,124	13,732	5,825	57	41,738
August	21,145	13,365	5,855	57	40,422
Sept	17,284	12,423	5,432	51	35,191
October	14,349	11,569	5,500	55	31,473
November	13,265	10,281	4,917	52	28,515
Year to Date					
2018	173,722	136,270	63,865	680	374,537
2019	172,082	134,133	63,173	676	370,064
2020	176,311	124,894	56,557	587	358,349
Rolling 12 Months Ending in November					
2019	187,393	145,288	68,526	740	401,946
2020	191,665	136,040	61,670	648	390,024

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2019 and prior years are final. Values for 2020 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.3. Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - November 2020 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.43	6.76	9.63	10.27
2017	12.89	10.66	6.88	9.68	10.48
2018	12.87	10.67	6.92	9.70	10.53
2019	13.01	10.68	6.81	9.66	10.54
Year 2018					
January	12.22	10.49	6.94	9.39	10.41
February	12.63	10.65	6.78	9.78	10.42
March	12.97	10.51	6.63	9.40	10.34
April	12.88	10.46	6.57	9.47	10.18
May	13.12	10.51	6.79	9.39	10.35
June	13.03	10.84	7.17	10.23	10.75
July	13.13	11.00	7.32	10.05	10.99
August	13.26	11.03	7.25	9.50	11.01
Sept	13.01	10.72	7.05	10.05	10.66
October	12.85	10.77	6.87	9.79	10.41
November	12.90	10.54	6.85	9.70	10.35
December	12.43	10.33	6.67	9.71	10.21
Year 2019					
January	12.47	10.30	6.58	9.83	10.24
February	12.72	10.54	6.69	10.02	10.40
March	12.84	10.46	6.73	9.25	10.34
April	13.25	10.52	6.51	9.45	10.24
May	13.31	10.54	6.69	9.46	10.38
June	13.32	10.90	6.87	10.01	10.74
July	13.26	11.02	7.14	9.82	11.00
August	13.30	11.02	7.40	9.65	11.05
Sept	13.16	10.96	7.06	9.78	10.82
October	12.81	10.74	6.84	9.72	10.39
November	13.03	10.57	6.72	9.52	10.38
December	12.68	10.32	6.38	9.46	10.22
Year 2020					
January	12.79	10.24	6.33	9.56	10.28
February	12.85	10.36	6.41	9.41	10.29
March	13.09	10.41	6.38	9.82	10.29
April	13.28	10.42	6.40	9.63	10.42
May	13.15	10.46	6.53	9.29	10.47
June	13.28	10.95	6.94	10.44	10.96
July	13.26	10.90	7.17	10.20	11.14
August	13.31	10.95	7.09	10.20	11.11
Sept	13.55	11.07	7.01	10.41	11.07
October	13.60	10.73	6.72	9.80	10.64
November	13.35	10.59	6.48	9.89	10.45
Year to Date					
2018	12.91	10.70	6.94	9.70	10.56
2019	13.04	10.71	6.85	9.68	10.57
2020	13.23	10.66	6.69	9.87	10.68
Rolling 12 Months Ending in November					
2019	12.99	10.68	6.84	9.68	10.54
2020	13.18	10.63	6.66	9.83	10.64

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2019 and prior years are final. Values for 2020 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
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Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, November 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	3,402	3,366	3,601	4,125	1,221	1,305	37	44	8,260	8,840
Connecticut	930	848	836	1,019	225	256	10	14	2,001	2,138
Maine	350	390	265	311	212	198	0	0	827	899
Massachusetts	1,381	1,406	1,800	2,024	475	514	26	28	3,682	3,971
New Hampshire	354	339	307	331	150	158	0	0	811	828
Rhode Island	218	210	252	289	46	59	1	2	517	560
Vermont	169	173	142	151	112	120	0	0	423	444
Middle Atlantic	9,497	9,351	10,559	11,508	5,636	6,158	277	299	25,969	27,317
New Jersey	1,902	1,872	2,683	2,886	490	548	18	23	5,094	5,328
New York	3,623	3,528	5,204	5,744	1,379	1,481	209	226	10,415	10,978
Pennsylvania	3,973	3,952	2,672	2,878	3,767	4,129	49	51	10,460	11,010
East North Central	13,287	14,384	12,979	14,034	13,837	15,254	37	44	40,141	43,716
Illinois	3,094	3,428	3,496	3,851	3,063	3,513	33	39	9,686	10,830
Indiana	2,228	2,501	1,719	1,808	3,296	3,555	1	2	7,245	7,866
Michigan	2,586	2,675	2,686	2,926	2,103	2,378	0	0	7,375	7,978
Ohio	3,605	3,968	3,359	3,626	3,605	4,015	2	3	10,572	11,611
Wisconsin	1,773	1,813	1,719	1,824	1,771	1,793	0	0	5,263	5,430
West North Central	7,492	7,983	7,444	8,030	7,298	7,710	3	4	22,238	23,726
Iowa	1,031	1,030	896	1,017	2,018	2,087	0	0	3,945	4,134
Kansas	856	916	1,088	1,176	846	931	0	0	2,790	3,024
Minnesota	1,724	1,766	1,679	1,838	1,521	1,772	2	2	4,926	5,378
Missouri	2,347	2,633	2,151	2,239	928	1,000	2	2	5,427	5,874
Nebraska	737	759	709	754	869	875	0	0	2,315	2,388
North Dakota	420	470	549	617	884	802	0	0	1,853	1,889
South Dakota	378	409	372	388	232	243	0	0	982	1,039
South Atlantic	25,642	26,504	23,436	24,258	11,845	11,269	92	115	61,015	62,147
Delaware	304	337	307	333	171	175	0	0	782	845
District of Columbia	168	168	541	592	18	16	27	33	755	810
Florida	9,519	9,159	7,317	7,348	1,324	1,318	6	6	18,165	17,831
Georgia	3,838	4,048	3,327	3,506	2,492	2,584	10	12	9,667	10,150
Maryland	1,870	2,040	1,996	2,226	260	299	35	50	4,161	4,616
North Carolina	3,865	4,219	3,733	3,597	2,600	2,081	1	1	10,199	9,899
South Carolina	2,032	2,106	1,561	1,571	2,324	2,086	0	0	5,918	5,763
Virginia	3,258	3,491	4,118	4,467	1,426	1,440	13	12	8,814	9,410
West Virginia	789	935	537	618	1,229	1,269	0	0	2,554	2,822
East South Central	7,714	8,471	6,477	6,960	7,486	7,805	0	0	21,677	23,237
Alabama	2,057	2,291	1,556	1,683	2,542	2,543	0	0	6,154	6,517
Kentucky	1,752	1,972	1,344	1,513	2,147	2,323	0	0	5,242	5,808
Mississippi	1,195	1,278	952	1,051	1,281	1,284	0	0	3,428	3,614
Tennessee	2,710	2,930	2,626	2,713	1,517	1,655	0	0	6,853	7,297
West South Central	14,075	14,738	14,011	14,581	15,726	16,377	15	18	43,827	45,713
Arkansas	1,156	1,257	832	885	1,385	1,438	0	0	3,373	3,581
Louisiana	2,026	2,063	1,738	1,896	2,701	3,003	1	1	6,466	6,963
Oklahoma	1,479	1,625	1,365	1,502	1,631	1,735	0	0	4,475	4,861
Texas	9,414	9,793	10,076	10,297	10,009	10,202	14	17	29,513	30,309
Mountain	7,259	6,802	7,274	7,472	6,343	6,636	12	15	20,888	20,925
Arizona	2,184	1,936	2,140	2,147	1,099	1,033	1	1	5,424	5,117
Colorado	1,499	1,460	1,554	1,666	1,238	1,282	7	9	4,298	4,417
Idaho	799	767	520	527	509	494	0	0	1,828	1,789
Montana	462	461	375	400	312	417	0	0	1,149	1,278
Nevada	815	747	892	828	916	971	0	1	2,623	2,547
New Mexico	520	489	626	692	745	767	0	0	1,891	1,948
Utah	745	693	891	918	786	797	4	4	2,426	2,413
Wyoming	234	248	276	293	739	876	0	0	1,249	1,416
Pacific Contiguous	10,567	10,450	10,850	11,397	6,078	6,694	52	76	27,549	28,616
California	5,619	5,656	7,316	7,757	3,568	3,594	43	64	16,546	17,073
Oregon	1,783	1,722	1,312	1,346	964	1,135	2	2	4,060	4,205
Washington	3,166	3,072	2,223	2,293	1,547	1,965	7	9	6,942	7,339
Pacific Noncontiguous	449	403	445	476	380	416	0	0	1,274	1,295
Alaska	196	167	221	218	108	106	0	0	525	491
Hawaii	253	236	224	257	272	310	0	0	749	804
U.S. Total	99,385	102,453	97,076	102,840	75,851	79,625	525	614	272,838	285,532

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values for 2019 are final. Values for 2020 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through November 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	43,881	41,835	43,421	47,228	13,625	14,937	424	497	101,352	104,497
Connecticut	11,762	11,182	10,162	11,180	2,568	2,855	115	161	24,607	25,378
Maine	4,472	4,355	3,482	3,813	2,289	2,552	0	0	10,243	10,720
Massachusetts	18,485	17,618	21,211	23,203	5,261	5,825	294	311	45,251	46,957
New Hampshire	4,341	4,072	3,687	3,915	1,706	1,778	0	0	9,733	9,764
Rhode Island	2,885	2,729	3,222	3,344	582	639	16	25	6,705	6,736
Vermont	1,937	1,879	1,658	1,774	1,219	1,289	0	0	4,813	4,942
Middle Atlantic	124,894	121,588	127,161	140,833	64,490	68,910	2,949	3,428	319,493	334,759
New Jersey	27,240	26,323	31,856	34,884	5,879	6,405	240	275	65,215	67,887
New York	47,837	45,875	63,005	68,896	14,499	16,172	2,320	2,568	127,661	133,510
Pennsylvania	49,817	49,390	32,299	37,053	44,112	46,334	389	585	126,617	133,361
East North Central	172,641	169,772	155,360	165,692	155,440	177,150	467	584	483,909	513,198
Illinois	42,221	41,426	41,983	45,178	36,010	39,760	415	524	120,629	126,889
Indiana	29,483	30,299	20,470	21,712	35,749	41,815	16	19	85,718	93,845
Michigan	32,509	30,526	32,536	34,821	22,924	27,530	4	6	87,974	92,883
Ohio	47,652	47,548	39,919	42,393	40,281	46,284	32	34	127,883	136,259
Wisconsin	20,776	19,973	20,452	21,587	20,476	21,760	1	1	61,705	63,322
West North Central	95,977	96,881	87,950	94,157	80,323	85,915	37	44	264,286	276,996
Iowa	13,043	13,144	10,600	11,226	21,862	22,279	0	0	45,506	46,649
Kansas	12,462	12,550	13,421	14,693	9,449	10,694	0	0	35,332	37,938
Minnesota	20,566	20,168	19,422	20,980	16,980	19,946	18	23	56,986	61,116
Missouri	31,592	32,559	25,996	27,733	10,388	12,007	19	21	67,993	72,320
Nebraska	9,350	9,336	8,278	8,678	10,025	9,752	0	0	27,652	27,766
North Dakota	4,465	4,559	5,866	6,366	9,076	8,556	0	0	19,407	19,481
South Dakota	4,498	4,564	4,367	4,481	2,545	2,681	0	0	11,410	11,726
South Atlantic	337,679	340,441	276,671	293,628	121,676	130,147	1,088	1,259	737,113	765,475
Delaware	4,524	4,568	3,782	4,049	1,653	1,891	0	0	9,959	10,508
District of Columbia	2,250	2,352	6,157	7,330	178	164	294	324	8,879	10,170
Florida	120,865	118,474	84,606	89,315	14,847	15,190	69	79	220,386	223,058
Georgia	53,418	54,669	40,828	43,854	27,442	29,905	128	151	121,816	128,578
Maryland	24,579	24,975	24,157	26,546	3,042	3,424	433	522	52,211	55,466
North Carolina	52,959	54,630	42,771	45,395	23,667	25,121	15	17	119,413	125,163
South Carolina	28,306	28,596	18,973	20,555	23,253	24,795	0	0	70,532	73,947
Virginia	41,112	42,198	49,058	49,613	14,559	16,305	149	166	104,878	108,283
West Virginia	9,666	9,979	6,338	6,970	13,035	13,351	0	0	29,039	30,300
East South Central	107,815	110,364	79,016	86,110	83,659	90,909	0	0	270,489	287,384
Alabama	28,826	29,834	19,302	21,369	28,024	29,983	0	0	76,152	81,186
Kentucky	23,596	24,240	16,561	18,114	24,032	26,825	0	0	64,189	69,179
Mississippi	17,137	17,280	11,823	13,225	14,515	14,647	0	0	43,475	45,152
Tennessee	38,255	39,010	31,329	33,403	17,089	19,453	0	0	86,673	91,866
West South Central	208,912	212,371	174,845	183,610	171,987	191,138	171	184	555,915	587,303
Arkansas	16,540	17,205	10,178	11,079	15,229	16,016	0	0	41,947	44,301
Louisiana	28,535	28,750	21,095	22,508	30,851	34,816	10	11	80,491	86,086
Oklahoma	21,466	21,911	16,788	18,627	18,360	19,183	0	0	56,615	59,721
Texas	142,371	144,505	126,785	131,396	107,547	121,122	161	173	376,863	397,195
Mountain	99,756	92,223	87,207	90,313	76,210	77,983	145	169	263,318	260,687
Arizona	36,224	32,318	26,883	27,288	12,574	12,677	10	10	75,692	72,294
Colorado	18,848	17,730	18,021	19,353	14,670	14,583	86	104	51,625	51,770
Idaho	7,902	7,777	5,692	5,880	8,521	8,270	0	0	22,116	21,927
Montana	4,768	4,766	4,319	4,520	4,000	4,636	0	0	13,087	13,923
Nevada	13,267	11,936	11,051	10,780	10,946	11,452	4	7	35,268	34,175
New Mexico	6,752	6,265	7,906	8,337	8,435	8,209	0	0	23,093	22,811
Utah	9,436	8,882	10,240	10,893	8,767	8,709	45	47	28,488	28,532
Wyoming	2,558	2,549	3,094	3,260	8,297	9,447	0	0	13,950	15,256
Pacific Contiguous	136,667	129,485	135,174	146,091	74,175	80,692	665	820	346,681	357,088
California	86,395	79,698	96,010	104,408	43,294	44,140	553	705	226,252	228,951
Oregon	17,584	17,183	14,375	15,043	11,284	13,448	23	25	43,267	45,699
Washington	32,688	32,604	24,789	26,640	19,597	23,104	89	90	77,163	82,438
Pacific Noncontiguous	4,467	4,251	4,713	5,213	4,152	4,476	0	0	13,332	13,941
Alaska	1,875	1,732	2,311	2,408	1,174	1,148	0	0	5,361	5,288
Hawaii	2,592	2,519	2,402	2,805	2,977	3,328	0	0	7,971	8,653
U.S. Total	1,332,689	1,319,211	1,171,518	1,252,875	845,737	922,258	5,946	6,984	3,355,890	3,501,328

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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, November 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	713	707	558	652	149	172	3	4	1,423	1,534
Connecticut	199	184	138	158	27	33	1	2	365	376
Maine	57	68	32	39	18	19	0	0	106	127
Massachusetts	305	306	277	332	64	77	1	2	648	717
New Hampshire	68	68	48	52	20	20	0	0	136	141
Rhode Island	51	46	40	46	7	9	0	0	99	101
Vermont	33	34	23	25	12	13	0	0	69	72
Middle Atlantic	1,521	1,478	1,315	1,366	351	394	31	33	3,218	3,272
New Jersey	298	286	316	339	47	53	2	2	664	680
New York	685	635	768	772	76	81	25	27	1,554	1,515
Pennsylvania	537	557	231	255	228	260	4	4	1,000	1,077
East North Central	1,842	1,940	1,350	1,434	910	1,040	3	3	4,104	4,417
Illinois	415	463	320	353	203	223	2	3	939	1,042
Indiana	295	317	193	202	219	259	0	0	707	778
Michigan	425	421	321	334	152	170	0	0	897	925
Ohio	445	485	326	349	206	259	0	0	977	1,093
Wisconsin	262	254	191	196	130	129	0	0	583	579
West North Central	865	896	683	733	481	520	0	0	2,029	2,149
Iowa	127	121	84	95	111	117	0	0	322	333
Kansas	111	118	113	121	61	67	0	0	285	306
Minnesota	223	217	169	177	117	125	0	0	508	519
Missouri	236	267	170	185	53	66	0	0	459	518
Nebraska	79	80	62	65	58	62	0	0	200	207
North Dakota	43	46	49	54	63	65	0	0	155	164
South Dakota	45	46	37	36	18	18	0	0	101	101
South Atlantic	3,076	3,180	2,138	2,302	701	721	8	9	5,923	6,212
Delaware	41	44	29	33	13	13	0	0	84	90
District of Columbia	22	23	66	76	2	1	3	3	92	103
Florida	1,142	1,107	693	707	99	103	0	1	1,935	1,918
Georgia	437	451	333	356	139	153	1	1	909	960
Maryland	248	261	194	217	20	23	3	4	465	505
North Carolina	450	482	305	315	138	124	0	0	893	922
South Carolina	258	279	155	172	125	126	0	0	538	577
Virginia	380	423	310	365	87	99	1	1	778	888
West Virginia	98	109	54	60	77	78	0	0	229	248
East South Central	912	976	705	764	418	455	0	0	2,035	2,195
Alabama	267	286	184	200	154	153	0	0	606	639
Kentucky	200	219	142	159	111	134	0	0	454	512
Mississippi	143	147	104	115	74	78	0	0	321	339
Tennessee	301	324	275	290	78	90	0	0	654	705
West South Central	1,624	1,657	1,139	1,203	784	891	1	1	3,548	3,752
Arkansas	122	121	72	77	77	85	0	0	271	283
Louisiana	201	201	165	172	139	154	0	0	505	528
Oklahoma	152	160	103	116	72	82	0	0	327	358
Texas	1,149	1,174	799	839	496	570	1	1	2,445	2,583
Mountain	835	778	677	680	375	394	1	1	1,888	1,853
Arizona	255	233	201	199	63	61	0	0	520	493
Colorado	186	171	164	166	91	90	1	1	441	428
Idaho	77	73	40	39	28	25	0	0	146	137
Montana	52	52	40	43	16	22	0	0	108	116
Nevada	95	93	65	66	41	49	0	0	201	208
New Mexico	67	59	66	67	42	42	0	0	175	169
Utah	77	71	73	71	44	45	0	0	194	187
Wyoming	26	27	27	28	49	60	0	0	103	115
Pacific Contiguous	1,760	1,623	1,612	1,624	665	669	6	7	4,043	3,923
California	1,251	1,137	1,290	1,304	517	509	5	6	3,063	2,956
Oregon	198	189	119	120	60	65	0	0	377	375
Washington	311	296	203	201	88	95	1	1	603	593
Pacific Noncontiguous	117	112	105	117	82	95	0	0	303	323
Alaska	44	38	43	44	17	18	0	0	104	100
Hawaii	73	73	62	73	65	77	0	0	200	223
U.S. Total	13,265	13,346	10,281	10,874	4,917	5,350	52	58	28,515	29,629

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Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through November 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	9,336	8,839	6,910	7,723	1,684	1,953	37	46	17,967	18,561
Connecticut	2,664	2,466	1,732	1,875	343	384	16	22	4,754	4,748
Maine	751	779	429	488	204	235	0	0	1,385	1,502
Massachusetts	4,081	3,853	3,395	3,901	694	859	18	19	8,188	8,633
New Hampshire	829	818	568	625	218	232	0	0	1,614	1,675
Rhode Island	633	593	513	550	92	100	4	5	1,242	1,247
Vermont	378	330	272	283	134	142	0	0	784	755
Middle Atlantic	19,929	19,251	15,921	17,251	4,099	4,536	335	383	40,284	41,421
New Jersey	4,375	4,186	3,977	4,293	590	655	22	24	8,964	9,159
New York	8,778	8,256	9,194	9,729	798	910	282	316	19,052	19,211
Pennsylvania	6,777	6,809	2,750	3,230	2,711	2,970	30	43	12,268	13,051
East North Central	23,310	22,792	15,856	16,942	10,378	12,287	32	41	49,576	52,062
Illinois	5,443	5,406	3,771	4,114	2,331	2,604	27	36	11,572	12,160
Indiana	3,696	3,826	2,235	2,399	2,417	3,094	2	2	8,350	9,321
Michigan	5,323	4,807	3,818	3,966	1,711	1,950	0	1	10,852	10,724
Ohio	5,775	5,912	3,773	4,141	2,340	3,044	2	2	11,890	13,099
Wisconsin	3,074	2,840	2,259	2,322	1,578	1,595	0	0	6,912	6,758
West North Central	11,621	11,592	8,562	9,155	5,827	6,295	3	4	26,013	27,045
Iowa	1,712	1,656	1,095	1,134	1,452	1,490	0	0	4,259	4,279
Kansas	1,593	1,603	1,392	1,518	676	788	0	0	3,661	3,908
Minnesota	2,769	2,647	2,060	2,184	1,364	1,511	2	2	6,195	6,344
Missouri	3,505	3,667	2,309	2,539	673	859	1	2	6,489	7,067
Nebraska	1,035	1,013	754	771	754	753	0	0	2,543	2,537
North Dakota	473	476	532	578	708	685	0	0	1,713	1,739
South Dakota	533	530	419	430	200	210	0	0	1,152	1,170
South Atlantic	40,287	40,765	25,218	27,524	7,508	8,494	89	100	73,102	76,884
Delaware	575	575	352	388	117	146	0	0	1,044	1,109
District of Columbia	284	307	736	899	15	14	29	31	1,063	1,250
Florida	13,955	13,871	7,692	8,275	1,069	1,165	5	7	22,721	23,318
Georgia	6,388	6,534	4,027	4,451	1,522	1,880	7	9	11,944	12,875
Maryland	3,208	3,282	2,349	2,647	236	267	34	38	5,827	6,235
North Carolina	6,140	6,266	3,737	4,005	1,452	1,588	1	1	11,330	11,860
South Carolina	3,576	3,692	1,943	2,155	1,359	1,510	0	0	6,879	7,356
Virginia	5,016	5,108	3,785	4,063	944	1,119	13	14	9,759	10,304
West Virginia	1,146	1,131	596	640	795	805	0	0	2,537	2,576
East South Central	12,316	12,578	8,477	9,260	4,648	5,267	0	0	25,440	27,105
Alabama	3,685	3,772	2,249	2,477	1,663	1,805	0	0	7,597	8,054
Kentucky	2,567	2,616	1,695	1,836	1,243	1,497	0	0	5,505	5,949
Mississippi	1,931	1,947	1,232	1,388	825	857	0	0	3,987	4,192
Tennessee	4,133	4,243	3,301	3,558	917	1,108	0	0	8,351	8,909
West South Central	23,620	23,784	13,804	15,073	8,755	10,447	11	12	46,190	49,316
Arkansas	1,730	1,694	875	975	871	988	0	0	3,476	3,657
Louisiana	2,709	2,831	1,838	2,008	1,476	1,838	1	1	6,023	6,677
Oklahoma	2,166	2,257	1,283	1,496	813	980	0	0	4,262	4,733
Texas	17,015	17,002	9,809	10,594	5,595	6,642	10	11	32,429	34,248
Mountain	11,806	10,942	8,356	8,683	4,742	4,977	14	16	24,917	24,618
Arizona	4,498	4,038	2,769	2,810	777	803	1	1	8,044	7,652
Colorado	2,349	2,170	1,876	2,039	1,069	1,085	7	9	5,300	5,303
Idaho	790	770	442	453	536	508	0	0	1,768	1,731
Montana	551	531	457	470	202	254	0	0	1,210	1,255
Nevada	1,437	1,433	815	869	599	713	0	1	2,852	3,016
New Mexico	889	787	827	818	470	453	0	0	2,186	2,058
Utah	1,004	927	869	908	519	525	5	5	2,397	2,364
Wyoming	288	286	302	316	570	637	0	0	1,160	1,239
Pacific Contiguous	22,867	20,332	20,638	21,224	7,991	7,865	66	74	51,563	49,495
California	17,725	15,265	17,139	17,562	6,301	5,961	55	63	41,220	38,851
Oregon	1,957	1,897	1,293	1,333	691	791	2	2	3,943	4,023
Washington	3,186	3,171	2,206	2,329	999	1,113	9	9	6,400	6,621
Pacific Noncontiguous	1,219	1,207	1,152	1,298	926	1,052	0	0	3,297	3,558
Alaska	430	397	459	476	195	193	0	0	1,084	1,066
Hawaii	789	810	694	822	731	859	0	0	2,213	2,491
U.S. Total	176,311	172,082	124,894	134,133	56,557	63,173	587	676	358,349	370,064

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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, November 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	20.97	21.00	15.50	15.80	12.20	13.18	7.93	8.02	17.23	17.36
Connecticut	21.41	21.64	16.45	15.46	12.14	13.05	11.96	11.17	18.25	17.60
Maine	16.17	17.55	11.90	12.69	8.50	9.40	--	--	12.84	14.07
Massachusetts	22.10	21.78	15.41	16.40	13.49	15.03	5.69	5.63	17.60	18.05
New Hampshire	19.20	20.22	15.62	15.81	13.30	12.97	--	--	16.75	17.07
Rhode Island	23.58	21.92	16.02	15.86	15.99	15.07	21.62	18.48	19.22	18.05
Vermont	19.68	19.82	16.46	16.44	10.81	11.13	--	--	16.26	16.32
Middle Atlantic	16.01	15.80	12.46	11.87	6.23	6.40	11.19	11.00	12.39	11.98
New Jersey	15.69	15.27	11.79	11.75	9.67	9.69	9.26	8.54	13.03	12.76
New York	18.91	18.01	14.76	13.44	5.48	5.46	11.98	12.06	14.92	13.80
Pennsylvania	13.51	14.09	8.65	8.87	6.06	6.31	8.55	7.38	9.56	9.78
East North Central	13.86	13.49	10.40	10.22	6.58	6.82	6.87	7.65	10.23	10.10
Illinois	13.41	13.51	9.14	9.17	6.62	6.34	6.67	7.58	9.70	9.62
Indiana	13.23	12.70	11.22	11.17	6.66	7.28	10.17	10.10	9.76	9.90
Michigan	16.43	15.73	11.93	11.41	7.22	7.16	12.18	11.44	12.17	11.59
Ohio	12.35	12.21	9.70	9.63	5.71	6.46	7.01	6.30	9.24	9.42
Wisconsin	14.77	14.03	11.11	10.73	7.36	7.17	14.90	13.95	11.08	10.66
West North Central	11.55	11.22	9.17	9.13	6.59	6.74	8.22	7.83	9.12	9.06
Iowa	12.34	11.77	9.37	9.34	5.48	5.60	--	--	8.16	8.06
Kansas	12.98	12.91	10.36	10.28	7.20	7.19	--	--	10.20	10.13
Minnesota	12.92	12.27	10.04	9.64	7.67	7.07	9.53	8.96	10.32	9.65
Missouri	10.07	10.15	7.89	8.26	5.66	6.57	6.60	6.61	8.45	8.82
Nebraska	10.73	10.59	8.77	8.63	6.73	7.03	--	--	8.63	8.67
North Dakota	10.26	9.80	8.85	8.68	7.17	8.08	--	--	8.37	8.70
South Dakota	12.03	11.28	9.86	9.37	7.93	7.55	--	--	10.24	9.70
South Atlantic	12.00	12.00	9.12	9.49	5.92	6.40	8.21	7.73	9.71	10.00
Delaware	13.62	13.15	9.58	9.78	7.66	7.57	--	--	10.73	10.67
District of Columbia	13.35	13.77	12.15	12.78	9.41	8.24	9.38	8.69	12.25	12.73
Florida	12.00	12.09	9.47	9.63	7.50	7.82	7.99	8.86	10.65	10.76
Georgia	11.38	11.13	10.00	10.16	5.59	5.91	5.44	4.86	9.40	9.46
Maryland	13.27	12.78	9.70	9.77	7.82	7.70	7.91	7.49	11.17	10.94
North Carolina	11.64	11.43	8.17	8.76	5.31	5.97	7.45	8.44	8.76	9.31
South Carolina	12.68	13.27	9.94	10.94	5.37	6.04	--	--	9.09	10.02
Virginia	11.65	12.12	7.52	8.17	6.13	6.89	8.92	8.22	8.83	9.44
West Virginia	12.46	11.69	10.06	9.75	6.25	6.16	--	--	8.97	8.78
East South Central	11.82	11.52	10.89	10.97	5.59	5.83	--	--	9.39	9.44
Alabama	13.00	12.47	11.85	11.89	6.08	6.02	--	--	9.85	9.80
Kentucky	11.43	11.11	10.56	10.51	5.19	5.76	--	--	8.65	8.82
Mississippi	11.99	11.48	10.94	10.90	5.77	6.04	--	--	9.37	9.38
Tennessee	11.10	11.07	10.47	10.69	5.17	5.46	--	--	9.54	9.66
West South Central	11.54	11.24	8.13	8.25	4.99	5.44	6.67	6.48	8.10	8.21
Arkansas	10.59	9.65	8.63	8.71	5.58	5.91	11.16	9.28	8.05	7.92
Louisiana	9.94	9.76	9.48	9.07	5.14	5.14	9.50	8.62	7.81	7.58
Oklahoma	10.27	9.84	7.55	7.69	4.41	4.73	--	--	7.30	7.35
Texas	12.20	11.99	7.93	8.14	4.96	5.58	6.48	6.38	8.28	8.52
Mountain	11.50	11.44	9.30	9.09	5.92	5.94	9.18	8.80	9.04	8.86
Arizona	11.69	12.01	9.40	9.26	5.76	5.90	7.87	8.04	9.58	9.62
Colorado	12.38	11.72	10.55	9.97	7.34	7.03	8.52	8.02	10.26	9.69
Idaho	9.67	9.49	7.70	7.41	5.54	5.14	--	--	7.96	7.67
Montana	11.22	11.18	10.57	10.71	5.28	5.18	--	--	9.40	9.07
Nevada	11.61	12.40	7.30	7.94	4.48	5.09	10.19	8.10	7.66	8.16
New Mexico	12.94	12.15	10.51	9.73	5.69	5.49	--	--	9.28	8.67
Utah	10.29	10.22	8.25	7.75	5.55	5.62	10.58	10.68	8.00	7.76
Wyoming	11.12	10.93	9.88	9.69	6.69	6.84	--	--	8.22	8.14
Pacific Contiguous	16.66	15.53	14.85	14.25	10.95	9.99	10.60	9.29	14.68	13.71
California	22.26	20.11	17.64	16.81	14.50	14.15	10.75	9.29	18.51	17.31
Oregon	11.12	11.00	9.04	8.88	6.24	5.76	9.71	9.15	9.29	8.91
Washington	9.84	9.65	9.12	8.77	5.68	4.81	10.00	9.34	8.68	8.08
Pacific Noncontiguous	26.08	27.69	23.51	24.60	21.49	22.78	--	--	23.81	24.98
Alaska	22.53	23.03	19.32	19.98	15.79	16.81	--	--	19.79	20.34
Hawaii	28.84	30.98	27.65	28.51	23.75	24.82	--	--	26.63	27.81
U.S. Total	13.35	13.03	10.59	10.57	6.48	6.72	9.89	9.52	10.45	10.38

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2019 are final. Values for 2020 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through November 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD	November 2020 YTD	November 2019 YTD
New England	21.28	21.13	15.91	16.35	12.36	13.07	8.78	9.26	17.73	17.76
Connecticut	22.65	22.06	17.05	16.78	13.34	13.45	13.55	13.88	19.32	18.71
Maine	16.79	17.88	12.33	12.81	8.93	9.21	--	--	13.52	14.01
Massachusetts	22.08	21.87	16.01	16.81	13.18	14.76	6.19	6.13	18.10	18.38
New Hampshire	19.09	20.09	15.40	15.97	12.78	13.06	--	--	16.59	17.16
Rhode Island	21.95	21.73	15.93	16.45	15.72	15.61	21.94	18.54	18.52	18.51
Vermont	19.52	17.55	16.40	15.97	10.98	11.03	--	--	16.28	15.28
Middle Atlantic	15.96	15.83	12.52	12.25	6.36	6.58	11.35	11.18	12.61	12.37
New Jersey	16.06	15.90	12.49	12.31	10.04	10.23	9.17	8.83	13.75	13.49
New York	18.35	18.00	14.59	14.12	5.50	5.63	12.17	12.32	14.92	14.39
Pennsylvania	13.60	13.79	8.51	8.72	6.14	6.41	7.79	7.27	9.69	9.79
East North Central	13.50	13.42	10.21	10.22	6.68	6.94	6.79	7.09	10.24	10.14
Illinois	12.89	13.05	8.98	9.11	6.47	6.55	6.60	6.92	9.59	9.58
Indiana	12.54	12.63	10.92	11.05	6.76	7.40	10.34	10.81	9.74	9.93
Michigan	16.37	15.75	11.73	11.39	7.46	7.08	11.37	10.55	12.34	11.55
Ohio	12.12	12.43	9.45	9.77	5.81	6.58	6.67	6.93	9.30	9.61
Wisconsin	14.80	14.22	11.05	10.76	7.71	7.33	14.67	13.90	11.20	10.67
West North Central	12.11	11.96	9.73	9.72	7.25	7.33	8.70	8.84	9.84	9.76
Iowa	13.12	12.60	10.33	10.10	6.64	6.69	--	--	9.36	9.17
Kansas	12.78	12.77	10.37	10.33	7.16	7.37	--	--	10.36	10.30
Minnesota	13.46	13.12	10.61	10.41	8.04	7.58	9.43	9.57	10.87	10.38
Missouri	11.10	11.26	8.88	9.16	6.48	7.16	7.98	8.05	9.54	9.77
Nebraska	11.07	10.85	9.11	8.88	7.52	7.72	--	--	9.20	9.14
North Dakota	10.60	10.44	9.06	9.08	7.80	8.00	--	--	8.83	8.93
South Dakota	11.86	11.61	9.59	9.61	7.87	7.82	--	--	10.10	9.98
South Atlantic	11.93	11.97	9.11	9.37	6.17	6.53	8.16	7.95	9.92	10.04
Delaware	12.71	12.59	9.31	9.58	7.08	7.72	--	--	10.49	10.55
District of Columbia	12.60	13.03	11.96	12.27	8.20	8.23	9.75	9.50	11.97	12.29
Florida	11.55	11.71	9.09	9.27	7.20	7.67	7.67	8.31	10.31	10.45
Georgia	11.96	11.95	9.86	10.15	5.55	6.29	5.39	6.04	9.81	10.01
Maryland	13.05	13.14	9.73	9.97	7.74	7.80	7.77	7.37	11.16	11.24
North Carolina	11.59	11.47	8.74	8.82	6.14	6.32	7.69	8.20	9.49	9.48
South Carolina	12.63	12.91	10.24	10.48	5.84	6.09	--	--	9.75	9.95
Virginia	12.20	12.10	7.72	8.19	6.49	6.86	8.80	8.32	9.30	9.52
West Virginia	11.86	11.33	9.40	9.18	6.10	6.03	--	--	8.73	8.50
East South Central	11.42	11.40	10.73	10.75	5.56	5.79	--	--	9.41	9.43
Alabama	12.78	12.64	11.65	11.59	5.94	6.02	--	--	9.98	9.92
Kentucky	10.88	10.79	10.23	10.14	5.17	5.58	--	--	8.58	8.60
Mississippi	11.27	11.27	10.42	10.50	5.68	5.85	--	--	9.17	9.28
Tennessee	10.80	10.88	10.54	10.65	5.36	5.69	--	--	9.63	9.70
West South Central	11.31	11.20	7.89	8.21	5.09	5.47	6.64	6.59	8.31	8.40
Arkansas	10.46	9.85	8.60	8.80	5.72	6.17	13.34	11.89	8.29	8.26
Louisiana	9.49	9.85	8.71	8.92	4.78	5.28	8.88	9.10	7.48	7.76
Oklahoma	10.09	10.30	7.64	8.03	4.43	5.11	--	--	7.53	7.92
Texas	11.95	11.77	7.74	8.06	5.20	5.48	6.49	6.42	8.60	8.62
Mountain	11.83	11.86	9.58	9.61	6.22	6.38	9.31	9.34	9.46	9.44
Arizona	12.42	12.50	10.30	10.30	6.18	6.33	9.45	9.80	10.63	10.59
Colorado	12.46	12.24	10.41	10.54	7.28	7.44	8.60	8.77	10.27	10.24
Idaho	10.00	9.90	7.76	7.70	6.29	6.14	--	--	8.00	7.89
Montana	11.56	11.15	10.59	10.40	5.05	5.47	--	--	9.25	9.01
Nevada	10.84	12.01	7.38	8.06	5.47	6.23	8.40	8.53	8.09	8.82
New Mexico	13.16	12.56	10.46	9.81	5.57	5.52	--	--	9.46	9.02
Utah	10.64	10.43	8.49	8.33	5.92	6.03	10.71	10.62	8.41	8.29
Wyoming	11.24	11.22	9.75	9.70	6.87	6.74	--	--	8.31	8.12
Pacific Contiguous	16.73	15.70	15.27	14.53	10.77	9.75	9.95	8.98	14.87	13.86
California	20.52	19.15	17.85	16.82	14.55	13.50	9.98	8.91	18.22	16.97
Oregon	11.13	11.04	8.99	8.86	6.12	5.88	9.46	9.14	9.11	8.80
Washington	9.75	9.73	8.90	8.74	5.10	4.82	9.92	9.43	8.29	8.03
Pacific Noncontiguous	27.28	28.40	24.45	24.90	22.30	23.51	--	--	24.73	25.52
Alaska	22.95	22.91	19.85	19.78	16.63	16.82	--	--	20.23	20.17
Hawaii	30.42	32.17	28.88	29.29	24.54	25.82	--	--	27.76	28.79
U.S. Total	13.23	13.04	10.66	10.71	6.69	6.85	9.87	9.68	10.68	10.57

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2019 are final. Values for 2020 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.7. Number of Ultimate Customers Served by Sector: 2010 - November 2020

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	125,717,935	17,674,338	747,747	239	144,140,259
2011	126,143,072	17,638,062	727,920	92	144,509,146
2012	126,832,343	17,729,029	732,385	83	145,293,840
2013	127,777,153	17,679,562	831,790	75	146,288,580
2014	128,680,416	17,853,995	839,212	79	147,373,702
2015	129,811,718	17,985,690	835,536	78	148,633,022
2016	131,068,760	18,148,353	838,059	86	150,055,258
2017	132,579,747	18,359,427	840,329	86	151,779,589
2018	133,893,321	18,605,393	840,321	83	153,339,118
2019	135,249,616	18,694,240	954,222	83	154,898,161
Year 2018					
January	133,302,446	18,552,003	838,797	82	152,693,328
February	132,923,513	18,440,673	811,940	82	152,176,208
March	133,852,602	18,574,947	822,275	82	153,249,906
April	133,417,773	18,526,543	824,075	82	152,768,473
May	134,121,801	18,613,438	851,023	82	153,586,344
June	133,935,311	18,615,355	858,759	83	153,409,508
July	133,883,159	18,623,955	860,910	83	153,368,107
August	134,433,813	18,686,099	866,859	83	153,986,854
Sept	133,791,062	18,594,023	844,187	83	153,229,355
October	134,377,594	18,717,481	844,839	83	153,939,997
November	134,155,451	18,636,211	823,868	83	153,615,613
December	134,524,109	18,682,871	835,705	83	154,042,768
Year 2019					
January	134,845,133	18,650,138	932,601	83	154,427,955
February	133,333,741	18,539,519	914,361	83	152,787,704
March	135,170,833	18,635,772	919,551	83	154,726,239
April	134,920,415	18,640,407	933,498	84	154,494,404
May	135,405,612	18,708,360	954,838	81	155,068,891
June	135,074,042	18,637,617	961,090	83	154,672,832
July	135,468,046	18,735,687	988,365	83	155,192,181
August	135,635,335	18,728,398	983,435	82	155,347,250
Sept	135,291,081	18,691,319	975,412	83	154,957,895
October	136,260,010	18,821,137	972,507	83	156,053,737
November	135,340,521	18,705,003	945,483	84	154,991,091
December	136,250,376	18,836,882	968,966	84	156,056,308
Year 2020					
January	136,242,098	18,726,474	936,513	83	155,905,168
February	135,574,675	18,609,362	919,906	83	155,104,026
March	136,735,189	18,790,043	936,497	83	156,461,812
April	136,709,401	18,747,084	942,662	83	156,399,230
May	136,581,044	18,689,150	942,877	83	156,213,154
June	137,113,150	18,781,259	964,445	83	156,858,937
July	137,828,370	18,838,778	977,659	82	157,644,889
August	137,220,273	18,749,015	966,934	82	156,936,304
Sept	137,451,982	18,780,746	968,204	82	157,201,014
October	136,892,551	18,869,327	996,204	82	156,758,164
November	137,089,797	18,756,798	943,787	82	156,790,464
Rolling 12 Months Ending in November					
2019	135,105,740	18,681,352	943,071	83	154,730,246
2020	136,807,409	18,764,577	955,388	83	156,527,456

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2019 and prior years are final. Values for 2020 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State: November 2020 and 2019

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	6,420,786	6,416,540	898,798	893,945	18,576	23,146	6	6	7,338,166	7,333,637
Connecticut	1,525,171	1,513,745	155,602	152,013	3,837	4,181	3	3	1,684,613	1,669,942
Maine	680,049	699,787	91,634	99,755	2,419	2,717	0	0	774,102	802,259
Massachusetts	2,813,809	2,811,059	423,520	413,740	7,434	11,072	2	2	3,244,765	3,235,873
New Hampshire	635,270	627,633	109,458	108,312	3,125	3,180	0	0	747,853	739,125
Rhode Island	447,324	447,809	59,296	61,170	1,620	1,754	1	1	508,241	510,734
Vermont	319,163	316,507	59,288	58,955	141	242	0	0	378,592	375,704
Middle Atlantic	16,336,630	16,295,853	2,410,695	2,370,638	32,584	34,823	19	20	18,779,928	18,701,334
New Jersey	3,640,007	3,614,851	528,138	525,528	11,510	11,805	6	6	4,179,661	4,152,190
New York	7,217,756	7,251,043	1,158,227	1,127,408	6,378	7,547	8	8	8,382,369	8,386,006
Pennsylvania	5,478,867	5,429,959	724,330	717,702	14,696	15,471	5	6	6,217,898	6,163,138
East North Central	20,641,923	20,329,569	2,548,322	2,520,811	46,930	56,280	11	11	23,237,186	22,906,671
Illinois	5,389,000	5,322,138	628,235	625,532	3,894	5,750	3	3	6,021,132	5,953,423
Indiana	2,940,051	2,896,332	363,389	361,104	15,860	19,432	1	1	3,319,301	3,276,869
Michigan	4,472,805	4,399,921	555,833	543,594	NM	5,638	2	2	5,034,105	4,949,155
Ohio	5,068,281	4,989,190	635,917	633,609	16,846	20,118	3	3	5,721,047	5,642,920
Wisconsin	2,771,786	2,721,988	364,948	356,972	NM	5,342	2	2	3,141,601	3,084,304
West North Central	9,782,334	9,593,748	1,494,953	1,471,133	111,486	122,543	3	3	11,388,776	11,187,427
Iowa	1,430,186	1,397,425	252,040	242,738	NM	8,322	0	0	1,688,895	1,648,485
Kansas	1,305,980	1,278,048	238,519	236,352	24,559	23,926	0	0	1,569,058	1,538,326
Minnesota	2,475,113	2,452,206	297,519	301,128	NM	8,713	1	1	2,780,820	2,762,048
Missouri	2,889,749	2,816,210	391,792	386,562	6,444	10,049	2	2	3,287,987	3,212,823
Nebraska	881,763	858,089	163,512	153,641	53,564	58,704	0	0	1,098,839	1,070,434
North Dakota	386,080	386,811	75,461	76,894	8,990	8,828	0	0	470,531	472,533
South Dakota	413,463	404,959	76,110	73,818	NM	4,001	0	0	492,646	482,778
South Atlantic	29,110,155	28,556,423	3,886,752	3,865,326	77,971	85,240	13	13	33,074,891	32,507,002
Delaware	445,315	441,497	56,296	55,876	536	864	0	0	502,147	498,237
District of Columbia	293,930	285,101	26,722	26,489	1	1	3	3	320,656	311,594
Florida	9,822,879	9,704,505	1,271,078	1,256,503	20,433	23,421	2	2	11,114,392	10,984,431
Georgia	4,571,805	4,436,588	595,819	588,876	19,286	23,261	1	1	5,186,911	5,048,726
Maryland	2,390,097	2,359,653	256,393	256,824	8,809	8,946	5	5	2,655,304	2,625,428
North Carolina	4,769,772	4,647,034	716,699	711,478	9,656	9,821	1	1	5,496,128	5,368,334
South Carolina	2,406,795	2,344,877	378,890	388,215	4,154	3,682	0	0	2,789,839	2,736,774
Virginia	3,544,364	3,479,596	437,866	435,627	3,768	3,718	1	1	3,985,999	3,918,942
West Virginia	865,198	857,572	146,989	145,438	11,328	11,526	0	0	1,023,515	1,014,536
East South Central	8,799,032	8,477,092	1,441,410	1,422,087	21,253	24,872	0	0	10,261,695	9,924,051
Alabama	2,324,212	2,257,117	373,962	371,211	8,097	7,227	0	0	2,706,271	2,635,555
Kentucky	2,058,734	1,997,486	312,816	311,802	5,309	6,145	0	0	2,376,859	2,315,433
Mississippi	1,356,901	1,298,167	240,367	238,347	6,963	10,471	0	0	1,604,231	1,546,985
Tennessee	3,059,185	2,924,322	514,265	500,727	884	1,029	0	0	3,574,334	3,426,078
West South Central	16,701,973	16,618,184	2,230,881	2,309,099	348,147	311,368	6	6	19,281,007	19,238,657
Arkansas	1,440,062	1,401,342	196,154	199,439	35,392	35,081	2	2	1,671,610	1,635,864
Louisiana	2,149,001	2,101,624	293,721	295,995	18,285	19,242	1	1	2,461,008	2,416,862
Oklahoma	1,838,171	1,783,460	291,708	287,955	18,778	20,229	0	0	2,148,657	2,091,644
Texas	11,274,739	11,331,758	1,449,298	1,525,710	275,692	236,816	3	3	12,999,732	13,094,287
Mountain	10,216,336	10,061,819	1,432,317	1,438,832	88,749	95,260	5	5	11,737,407	11,595,916
Arizona	2,916,875	2,878,045	331,788	329,709	NM	7,790	2	2	3,254,521	3,215,546
Colorado	2,413,505	2,384,355	372,718	381,694	NM	14,407	1	1	2,801,118	2,780,457
Idaho	788,188	771,255	115,320	112,814	28,818	28,346	0	0	932,326	912,415
Montana	528,897	518,667	114,323	109,998	NM	10,068	0	0	650,224	638,733
Nevada	1,234,375	1,210,722	169,316	168,377	NM	3,131	1	1	1,406,833	1,382,231
New Mexico	924,941	897,415	141,300	145,317	NM	9,513	0	0	1,074,642	1,052,245
Utah	1,129,677	1,125,634	128,500	132,369	10,563	10,805	1	1	1,268,741	1,268,809
Wyoming	279,878	275,726	59,052	58,554	10,072	11,200	0	0	349,002	345,480
Pacific Contiguous	18,345,455	18,262,370	2,297,395	2,297,859	195,885	190,011	19	20	20,838,754	20,750,260
California	13,384,489	13,356,584	1,648,986	1,665,529	142,071	139,100	12	13	15,175,558	15,161,226
Oregon	1,810,249	1,773,000	244,652	241,260	26,156	24,699	2	2	2,081,059	2,038,961
Washington	3,150,717	3,132,786	403,757	391,070	27,658	26,212	5	5	3,582,137	3,550,073
Pacific Noncontiguous	735,173	728,923	115,275	115,273	NM	1,940	0	0	852,654	846,136
Alaska	293,375	289,831	55,656	55,339	NM	NM	0	0	350,427	346,283
Hawaii	441,798	439,092	59,619	59,934	810	827	0	0	502,227	499,853
U.S. Total	137,089,797	135,340,521	18,756,798	18,705,003	943,787	945,483	82	84	156,790,464	154,991,091

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2019 are final. Values for 2020 are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Chapter 6

Capacity

Table 6.1. Electric Generating Summer Capacity Changes (MW), October 2020 to November 2020

		As of End of October 2020	Activity During November 2020 as Reported to EIA		As of End of November 2020	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Reductions		Planned Net Change		Capacity	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... *Onshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*109,520.5*	*1,431.5*	*5.7*	*110,946.3*	*1,425.8*	*7,404.4*	*10,236.5*	*10,172.0*	*18,316.3*	*0.0*	*0.0*	*10,172.0*	*18,316.3*	*121,118.3*	*129,262.6*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*12.0*	*0.0*	*0.0*	*0.0*	*12.0*	*29.3*	*41.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	109,549.8	1,431.5	5.7	110,975.6	1,425.8	7,404.4	10,236.5	10,172.0	18,328.3	0.0	0.0	10,172.0	18,328.3	121,147.6	129,303.9
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*41,834.2*	*916.3*	*0.0*	*42,750.5*	*916.3*	*7,040.3*	*9,092.1*	*4,255.4*	*14,902.9*	*0.0*	*0.0*	*4,255.4*	*14,902.9*	*47,005.9*	*57,653.4*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,352.5*	*0.0*	*0.0*	*1,352.5*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,352.5*	*1,352.5*
..... *Solar Thermal with Energy Storage*	*Utility Scale Facilities*	*405.6*	*0.0*	*0.0*	*405.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.6*	*405.6*
..... Solar Subtotal	Utility Scale Facilities	43,592.3	916.3	0.0	44,508.6	916.3	7,040.3	9,092.1	4,255.4	14,902.9	0.0	0.0	4,255.4	14,902.9	48,764.0	59,411.5
..... Conventional Hydroelectric	Utility Scale Facilities	79,944.1	8.6	0.0	79,952.7	8.6	179.6	180.8	7.2	126.1	1.8	5.5	5.4	120.6	79,958.1	80,073.3
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,383.0*	*38.0*	*38.0*	*8,383.0*	*0.0*	*8.5*	*77.5*	*0.0*	*0.0*	*0.0*	*163.0*	*0.0*	*-163.0*	*8,383.0*	*8,220.0*
..... *Landfill Gas*	*Utility Scale Facilities*	*1,916.3*	*0.0*	*0.0*	*1,916.3*	*0.0*	*-76.0*	*-88.7*	*1.4*	*3.4*	*0.0*	*0.0*	*1.4*	*3.4*	*1,917.7*	*1,919.7*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,120.7*	*0.0*	*0.0*	*2,120.7*	*0.0*	*0.0*	*0.0*	*0.0*	*8.0*	*0.0*	*0.0*	*0.0*	*8.0*	*2,120.7*	*2,128.7*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*638.8*	*0.0*	*0.0*	*638.8*	*0.0*	*13.0*	*10.3*	*1.4*	*40.2*	*0.0*	*0.0*	*1.4*	*40.2*	*640.2*	*679.0*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,058.8	38.0	38.0	13,058.8	0.0	-54.5	-0.9	2.8	51.6	0.0	163.0	2.8	-111.4	13,061.6	12,947.4
..... Geothermal	Utility Scale Facilities	2,555.4	0.0	0.0	2,555.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,555.4	2,555.4
... Renewable Sources Subtotal	***Utility Scale Facilities***	***248,700.4***	***2,394.4***	***43.7***	***251,051.1***	***2,350.7***	***14,569.8***	***19,508.5***	***14,437.4***	***33,408.9***	***1.8***	***168.5***	***14,435.6***	***33,240.4***	***265,486.7***	***284,291.5***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*275,994.1*	*37.1*	*23.5*	*276,007.7*	*13.6*	*4,821.7*	*6,337.7*	*40.0*	*4,150.7*	*0.0*	*56.0*	*40.0*	*4,094.7*	*276,047.7*	*280,102.4*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*129,133.5*	*1.0*	*0.0*	*129,134.5*	*1.0*	*23.4*	*-209.3*	*364.4*	*2,622.7*	*0.0*	*19.0*	*364.4*	*2,603.7*	*129,498.9*	*131,738.2*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*70,892.8*	*137.4*	*7.6*	*71,022.6*	*129.8*	*113.2*	*-1,016.3*	*0.0*	*18.2*	*193.0*	*531.1*	*-193.0*	*-512.9*	*70,829.6*	*70,509.7*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*5,153.8*	*11.4*	*8.0*	*5,157.2*	*3.4*	*134.6*	*140.9*	*5.0*	*90.2*	*0.0*	*11.1*	*5.0*	*79.1*	*5,162.2*	*5,236.3*
..... *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*	*223.7*	*2.0*	*0.0*	*225.7*	*2.0*	*-2.6*	*0.0*	*3.7*	*37.2*	*0.0*	*0.0*	*3.7*	*37.2*	*229.4*	*262.9*
..... Natural Gas Subtotal	Utility Scale Facilities	481,507.9	188.9	39.1	481,657.7	149.8	5,090.3	5,253.0	413.1	6,919.0	193.0	617.2	220.1	6,301.8	481,877.8	487,959.5
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*220,495.6*	*10.0*	*401.5*	*220,104.1*	*-391.5*	*-7,797.3*	*-8,304.3*	*0.0*	*29.0*	*1,713.4*	*3,817.4*	*-1,713.4*	*-3,788.4*	*218,390.7*	*216,315.7*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*756.0*	*0.0*	*0.0*	*756.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*756.0*	*756.0*
..... Coal Subtotal	Utility Scale Facilities	221,251.6	10.0	401.5	220,860.1	-391.5	-7,797.3	-8,304.3	0.0	29.0	1,713.4	3,817.4	-1,713.4	-3,788.4	219,146.7	217,071.7
..... Petroleum Coke	Utility Scale Facilities	1,384.9	0.0	0.0	1,384.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,384.9	1,384.9
..... Petroleum Liquids	Utility Scale Facilities	29,743.5	0.3	3.6	29,740.2	-3.3	-276.2	-341.7	3.1	4.8	0.0	812.7	3.1	-807.9	29,743.3	28,932.3
..... Other Gases	Utility Scale Facilities	2,507.2	0.0	0.0	2,507.2	0.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	2,507.2	2,507.2
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***736,395.1***	***199.2***	***444.2***	***736,150.1***	***-245.0***	***-2,975.2***	***-3,385.0***	***416.2***	***6,952.8***	***1,906.4***	***5,247.3***	***-1,490.2***	***1,705.5***	***734,659.9***	***737,855.6***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,875.3	0.0	0.0	22,875.3	0.0	97.0	97.0	18.3	198.3	0.0	0.0	18.3	198.3	22,893.6	23,073.6
..... Flywheels	Utility Scale Facilities	47.0	0.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0
..... Batteries	Utility Scale Facilities	1,353.1	1.0	2.0	1,352.1	-1.0	337.3	345.9	394.1	3,694.7	0.0	0.0	394.1	3,694.7	1,746.2	5,046.8
... Energy Storage Subtotal	***Utility Scale Facilities***	***24,275.4***	***1.0***	***2.0***	***24,274.4***	***-1.0***	***434.3***	***442.9***	***412.4***	***3,893.0***	***0.0***	***0.0***	***412.4***	***3,893.0***	***24,686.8***	***28,167.4***
... Nuclear	***Utility Scale Facilities***	***96,559.5***	***0.0***	***0.0***	***96,559.5***	***0.0***	***-1,559.5***	***-1,559.5***	***0.0***	***1,100.0***	***0.0***	***5,134.9***	***0.0***	***-4,034.9***	***96,559.5***	***92,524.6***
... All Other	***Utility Scale Facilities***	***1,544.6***	***0.0***	***0.0***	***1,544.6***	***0.0***	***0.0***	***-27.9***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***1,544.6***	***1,544.6***
TOTAL	**UTILITY SCALE FACILITIES**	**1,107,475.0**	**2,594.6**	**489.9**	**1,109,579.7**	**2,104.7**	**10,469.4**	**14,979.0**	**15,266.0**	**45,354.7**	**1,908.2**	**10,550.7**	**13,357.8**	**34,804.0**	**1,122,937.5**	**1,144,383.7**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*26,700.0*			*27,054.0*	*354.0*	*3,840.4*	*4,387.4*								
..... Estimated Total Solar Photovoltaic	All Facilities	68,534.2			69,804.5	1,270.3	10,880.7	13,479.5								
... Estimated Total Solar	***All Facilities***	***70,292.3***			***71,562.6***	***1,270.3***	***10,880.7***	***13,479.5***								

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 - November 2020

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
2016	20,192.9	12,765.1	32,958.0
2017	25,209.0	16,147.8	41,356.8
2018	30,120.5	19,547.1	49,667.6
2019	35,710.2	23,213.6	58,923.8
Year 2018			
January	25,968.4	16,647.9	42,616.3
February	26,067.6	16,888.9	42,956.5
March	26,592.1	17,172.4	43,764.5
April	26,859.7	17,431.2	44,290.9
May	27,291.3	17,714.7	45,006.0
June	27,451.7	17,988.5	45,440.2
July	27,590.1	18,239.9	45,830.0
August	27,674.0	18,519.6	46,193.6
Sept	27,989.5	18,780.9	46,770.4
October	28,158.3	19,059.8	47,218.1
November	28,690.2	19,320.0	48,010.2
December	30,120.5	19,547.1	49,667.6
Year 2019			
January	30,911.4	19,697.8	50,609.2
February	31,124.1	19,941.5	51,065.6
March	31,355.0	20,254.3	51,609.3
April	31,466.6	20,506.0	51,972.6
May	31,528.4	20,811.4	52,339.8
June	31,811.5	21,073.0	52,884.5
July	32,079.3	21,407.6	53,486.9
August	32,302.5	21,724.6	54,027.1
Sept	32,556.1	22,031.1	54,587.2
October	33,001.5	22,357.7	55,359.2
November	33,658.4	22,666.6	56,325.0
December	35,710.2	23,213.6	58,923.8
Year 2020			
January	36,830.4	23,753.1	60,583.5
February	37,240.7	24,062.1	61,302.8
March	37,459.8	24,434.1	61,893.9
April	38,107.8	24,748.9	62,856.7
May	38,471.7	24,977.9	63,449.6
June	39,695.7	25,369.6	65,065.3
July	40,109.6	25,779.5	65,889.1
August	40,709.8	26,197.4	66,907.2
Sept	41,388.9	26,505.8	67,894.7
October	41,834.2	26,700.0	68,534.2
November	42,750.5	27,054.0	69,804.5

Values for 2019 are final. Values for 2020 are preliminary.
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - November 2020

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
2016	7,527.0	4,022.8	1,215.3	12,765.1
2017	9,626.8	5,155.8	1,365.1	16,147.8
2018	11,720.4	6,271.4	1,555.4	19,547.1
2019	14,249.0	7,167.9	1,796.6	23,213.6
Year 2018				
January	9,817.0	5,460.2	1,370.7	16,647.9
February	9,977.5	5,530.9	1,380.4	16,888.9
March	10,144.5	5,629.9	1,398.0	17,172.4
April	10,301.4	5,712.2	1,417.5	17,431.2
May	10,476.8	5,801.6	1,436.2	17,714.7
June	10,643.5	5,891.0	1,454.0	17,988.5
July	10,810.7	5,967.0	1,462.2	18,239.9
August	10,991.8	6,055.4	1,472.4	18,519.6
Sept	11,157.7	6,132.3	1,491.0	18,780.9
October	11,354.3	6,204.2	1,501.4	19,059.8
November	11,529.1	6,261.2	1,529.7	19,320.0
December	11,720.4	6,271.4	1,555.4	19,547.1
Year 2019				
January	11,909.0	6,209.1	1,579.7	19,697.8
February	12,080.2	6,270.5	1,590.9	19,941.5
March	12,281.3	6,361.9	1,611.1	20,254.3
April	12,460.8	6,406.0	1,639.3	20,506.0
May	12,656.9	6,487.7	1,666.7	20,811.4
June	12,847.0	6,538.0	1,688.0	21,073.0
July	13,095.9	6,614.7	1,697.0	21,407.6
August	13,314.5	6,697.1	1,713.0	21,724.6
Sept	13,534.1	6,761.3	1,735.6	22,031.1
October	13,769.0	6,838.6	1,750.0	22,357.7
November	13,993.3	6,908.0	1,765.4	22,666.6
December	14,249.0	7,167.9	1,796.6	23,213.6
Year 2020				
January	14,622.8	7,303.3	1,827.0	23,753.1
February	14,842.6	7,365.6	1,853.9	24,062.1
March	15,072.4	7,486.3	1,875.4	24,434.1
April	15,290.7	7,579.2	1,878.9	24,748.9
May	15,489.1	7,589.7	1,899.1	24,977.9
June	15,699.8	7,730.3	1,939.5	25,369.6
July	15,967.4	7,844.0	1,968.1	25,779.5
August	16,192.1	8,020.2	1,985.1	26,197.4
Sept	16,428.1	8,079.3	1,998.4	26,505.8
October	16,650.7	8,040.2	2,009.2	26,700.0
November	16,896.7	8,138.6	2,018.7	27,054.0

Values for 2019 are final. Values for 2020 are preliminary.
Improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, November 2020 and 2019 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	6,232.2	5,929.9	24,202.2	24,227.5	1,797.4	1,797.4	81.5	61.5	3,323.5	3,323.5	48.0	48.0	35,684.8	35,387.8
Connecticut	462.7	416.3	7,871.2	7,866.2	29.4	29.4	1.6	1.6	2,073.1	2,073.1	26.0	26.0	10,464.0	10,412.6
Maine	2,289.8	2,254.0	2,499.3	2,497.3	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,827.3	4,789.5
Massachusetts	1,583.5	1,485.5	9,561.1	9,596.4	1,768.0	1,768.0	52.8	32.8	0.0	0.0	0.0	0.0	12,965.4	12,882.7
New Hampshire	956.9	928.1	2,289.9	2,289.9	0.0	0.0	0.0	0.0	1,250.4	1,250.4	0.0	0.0	4,497.2	4,468.4
Rhode Island	254.6	163.5	1,835.1	1,832.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,089.7	1,995.6
Vermont	684.7	682.5	145.6	145.6	0.0	0.0	10.9	10.9	0.0	0.0	0.0	0.0	841.2	839.0
Middle Atlantic	11,703.9	11,377.7	74,270.9	72,012.5	3,383.3	3,383.3	150.5	143.5	16,940.5	17,956.6	11.2	11.2	106,460.3	104,884.8
New Jersey	1,159.8	1,084.5	12,244.7	12,241.5	420.0	420.0	42.1	42.1	3,467.1	3,467.1	11.2	11.2	17,344.9	17,266.4
New York	7,596.2	7,436.9	26,989.0	26,733.4	1,411.3	1,411.3	60.0	53.0	4,380.2	5,396.3	0.0	0.0	40,436.7	41,030.9
Pennsylvania	2,947.9	2,856.3	35,037.2	33,037.6	1,552.0	1,552.0	48.4	48.4	9,093.2	9,093.2	0.0	0.0	48,678.7	46,587.5
East North Central	14,893.2	12,992.0	108,106.4	109,696.2	2,249.0	2,232.0	194.7	194.7	19,007.1	19,007.1	187.1	187.1	144,637.5	144,309.1
Illinois	6,184.2	5,188.7	27,059.7	27,472.4	0.0	0.0	132.7	132.7	11,582.4	11,582.4	78.0	78.0	45,037.0	44,454.2
Indiana	2,854.2	2,671.1	23,832.4	23,922.6	0.0	0.0	28.0	28.0	0.0	0.0	88.0	88.0	26,802.6	26,709.7
Michigan	3,367.7	2,939.4	19,996.6	20,080.3	2,249.0	2,232.0	1.0	1.0	4,089.6	4,089.6	0.0	0.0	29,703.9	29,342.3
Ohio	1,204.7	1,064.6	23,714.0	25,259.2	0.0	0.0	33.0	33.0	2,134.0	2,134.0	0.0	0.0	27,085.7	28,490.8
Wisconsin	1,282.4	1,128.2	13,503.7	12,961.7	0.0	0.0	0.0	0.0	1,201.1	1,201.1	21.1	21.1	16,008.3	15,312.1
West North Central	35,511.7	30,951.1	59,152.8	59,240.4	657.0	657.0	20.1	20.1	4,842.0	5,443.4	22.8	22.8	100,206.4	96,334.8
Iowa	11,012.5	9,024.6	9,846.4	9,843.1	0.0	0.0	1.1	1.1	0.0	601.4	0.0	0.0	20,860.0	19,470.2
Kansas	6,569.8	6,159.6	9,003.1	8,846.1	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,798.7	16,231.5
Minnesota	5,626.6	5,272.1	10,350.9	10,389.6	0.0	0.0	16.0	16.0	1,657.0	1,657.0	16.7	16.7	17,667.2	17,351.4
Missouri	1,821.0	1,579.0	17,453.6	17,659.0	657.0	657.0	2.2	2.2	1,190.0	1,190.0	0.0	0.0	21,123.8	21,087.2
Nebraska	2,729.5	2,492.0	6,196.3	6,196.3	0.0	0.0	0.0	0.0	770.0	770.0	0.0	0.0	9,695.8	9,458.3
North Dakota	4,198.3	3,741.6	4,601.4	4,601.4	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,805.0	8,348.3
South Dakota	3,554.0	2,682.2	1,701.1	1,704.9	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	5,255.9	4,387.9
South Atlantic	25,152.8	21,168.3	160,290.5	161,141.9	7,986.4	7,906.4	89.5	76.5	24,746.6	24,688.6	468.9	496.8	218,734.7	215,478.5
Delaware	50.9	47.9	3,321.5	3,321.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,372.4	3,369.4
District of Columbia	21.3	18.9	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	39.5
Florida	4,642.3	3,205.1	53,458.4	53,174.8	0.0	0.0	19.0	14.0	3,666.0	3,626.0	312.9	340.8	62,098.6	60,360.7
Georgia	5,125.3	4,119.7	26,102.0	26,100.8	1,863.4	1,863.4	2.2	1.0	4,061.0	4,061.0	0.0	0.0	37,153.9	36,145.9
Maryland	1,264.2	1,233.4	10,783.2	11,670.7	0.0	0.0	5.0	7.0	1,707.8	1,707.8	6.0	6.0	13,766.2	14,624.9
North Carolina	7,505.9	7,006.3	22,192.8	22,022.6	86.0	86.0	9.8	1.0	5,149.6	5,149.6	54.0	54.0	34,998.1	34,319.5
South Carolina	2,832.8	2,422.1	11,764.1	12,130.3	2,796.0	2,716.0	4.0	4.0	6,594.2	6,576.2	0.0	0.0	23,991.1	23,848.6
Virginia	2,623.6	2,084.6	18,910.0	18,912.7	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	96.0	96.0	28,438.6	27,902.3
West Virginia	1,086.5	1,030.3	13,737.9	13,787.9	0.0	0.0	49.5	49.5	0.0	0.0	0.0	0.0	14,873.9	14,867.7
East South Central	8,911.2	8,853.0	60,877.4	62,732.2	1,616.3	1,616.3	1.0	1.0	11,449.1	11,449.1	1.4	1.4	82,856.4	84,653.0
Alabama	4,119.0	4,115.0	19,081.1	19,610.1	0.0	0.0	1.0	1.0	5,525.4	5,525.4	0.0	0.0	28,726.5	29,251.5
Kentucky	1,247.6	1,247.6	16,877.1	18,261.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,124.7	19,509.5
Mississippi	520.5	468.0	12,676.9	12,617.9	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,599.8	14,488.3
Tennessee	3,024.1	3,022.4	12,242.3	12,242.3	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,405.4	21,403.7
West South Central	46,608.4	42,065.7	139,551.7	138,823.5	286.0	286.0	161.5	131.7	8,910.7	8,910.7	548.6	548.6	196,066.9	190,766.2
Arkansas	1,742.7	1,640.5	11,281.0	11,281.0	28.0	28.0	12.0	12.0	1,817.8	1,817.8	0.0	0.0	14,881.5	14,779.3
Louisiana	665.2	615.2	22,487.2	21,262.2	0.0	0.0	0.5	0.5	2,132.9	2,132.9	329.6	329.6	25,615.4	24,340.4
Oklahoma	9,599.2	9,039.0	17,978.6	17,978.6	258.0	258.0	10.0	0.0	0.0	0.0	0.0	0.0	27,845.8	27,275.6
Texas	34,601.3	30,771.0	87,804.9	88,301.7	0.0	0.0	139.0	119.2	4,960.0	4,960.0	219.0	219.0	127,724.2	124,370.9
Mountain	30,321.5	28,171.5	59,281.3	60,143.1	778.8	778.8	54.3	54.3	3,937.0	3,937.0	123.7	123.7	94,496.6	93,208.4
Arizona	5,339.8	5,147.3	17,505.7	17,417.2	216.3	216.3	42.0	42.0	3,937.0	3,937.0	0.0	0.0	27,040.8	26,759.8
Colorado	6,111.6	5,075.2	10,932.9	10,932.9	562.5	562.5	10.5	10.5	0.0	0.0	9.1	9.1	17,626.6	16,590.2
Idaho	4,078.5	4,079.8	1,121.8	1,121.8	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,215.1	5,216.4
Montana	3,673.9	3,594.0	2,125.1	2,739.1	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	5,839.0	6,373.1
Nevada	4,160.6	4,006.2	7,821.6	7,821.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,988.7	11,834.3
New Mexico	2,866.6	2,736.0	5,711.4	5,962.9	0.0	0.0	1.8	1.8	0.0	0.0	0.7	0.7	8,580.5	8,701.4
Utah	1,927.0	1,648.0	7,293.5	7,378.3	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	9,260.7	9,066.5
Wyoming	2,163.5	1,885.0	6,769.3	6,769.3	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	8,945.2	8,666.7
Pacific Contiguous	70,459.2	68,806.2	46,054.0	47,171.9	4,121.1	4,121.1	537.8	261.7	3,403.0	3,403.0	106.3	106.3	124,681.4	123,870.2
California	32,659.4	31,705.5	37,582.0	38,115.1	3,807.1	3,807.1	526.6	250.5	2,240.0	2,240.0	106.3	106.3	76,921.4	76,224.5
Oregon	12,815.4	12,398.1	3,730.2	4,315.2	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,550.6	16,718.3
Washington	24,984.4	24,702.6	4,741.8	4,741.6	314.0	314.0	6.2	6.2	1,163.0	1,163.0	0.0	0.0	31,209.4	30,927.4
Pacific Noncontiguous	1,257.0	1,227.2	4,362.9	4,345.9	0.0	0.0	108.2	108.2	0.0	0.0	26.6	26.6	5,754.7	5,707.9
Alaska	538.6	538.6	2,191.6	2,174.6	0.0	0.0	47.2	47.2	0.0	0.0	0.0	0.0	2,777.4	2,760.4
Hawaii	718.4	688.6	2,171.3	2,171.3	0.0	0.0	61.0	61.0	0.0	0.0	26.6	26.6	2,977.3	2,947.5
U.S. Total	251,051.1	231,542.6	736,150.1	739,535.1	22,875.3	22,778.3	1,399.1	1,053.2	96,559.5	98,119.0	1,544.6	1,572.5	1,109,579.7	1,094,600.7

NM = Not meaningful due to large relative standard error.
Values for 2019 are final. Values for 2020 are preliminary.

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.
Concentrated Solar Power Energy Storage is included in 'Renewable sources'; it is not included in 'Other Energy Storage'

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

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, November 2020 and 2019 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	1,463.2	1,429.4	1,394.4	1,102.4	0.0	0.0	1,957.6	1,957.6	1,417.0	1,440.5	0.0	0.0	6,232.2	5,929.9	2,854.2	2,474.4	4,248.6	3,576.8	4,248.6	3,576.8
Connecticut	1.0	1.0	142.4	96.0	0.0	0.0	119.4	119.4	199.9	199.9	0.0	0.0	462.7	416.3	595.5	496.3	737.9	592.3	737.9	592.3
Maine	921.6	921.6	64.9	5.6	0.0	0.0	734.0	734.0	569.3	592.8	0.0	0.0	2,289.8	2,254.0	65.0	57.7	129.9	63.3	129.9	63.3
Massachusetts	105.7	100.7	926.6	833.6	0.0	0.0	266.3	266.3	284.9	284.9	0.0	0.0	1,583.5	1,485.5	1,726.6	1,568.0	2,653.2	2,401.6	2,653.2	2,401.6
New Hampshire	211.9	183.1	0.0	0.0	0.0	0.0	504.0	504.0	241.0	241.0	0.0	0.0	956.9	928.1	116.2	98.5	116.2	98.5	116.2	98.5
Rhode Island	72.8	72.8	139.0	47.9	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	254.6	163.5	216.3	136.5	355.3	184.4	355.3	184.4
Vermont	150.2	150.2	121.5	119.3	0.0	0.0	331.2	331.2	81.8	81.8	0.0	0.0	684.7	682.5	134.7	117.4	256.2	236.7	256.2	236.7
Middle Atlantic	3,453.3	3,363.3	1,671.5	1,337.5	0.0	0.0	5,471.6	5,470.4	1,107.5	1,206.5	0.0	0.0	11,703.9	11,377.7	4,036.3	3,445.4	5,707.8	4,782.9	5,707.8	4,782.9
New Jersey	7.6	7.6	946.1	855.7	0.0	0.0	12.3	12.3	193.8	208.9	0.0	0.0	1,159.8	1,084.5	1,837.1	1,621.3	2,783.2	2,477.0	2,783.2	2,477.0
New York	1,985.7	1,985.7	591.5	414.4	0.0	0.0	4,559.7	4,558.5	459.3	478.3	0.0	0.0	7,596.2	7,436.9	1,749.8	1,451.2	2,341.3	1,865.6	2,341.3	1,865.6
Pennsylvania	1,460.0	1,370.0	133.9	67.4	0.0	0.0	899.6	899.6	454.4	519.3	0.0	0.0	2,947.9	2,856.3	449.5	372.8	583.4	440.2	583.4	440.2
East North Central	12,096.3	10,435.5	748.3	506.3	0.0	0.0	886.1	884.6	1,162.5	1,165.6	0.0	0.0	14,893.2	12,992.0	967.8	612.3	1,716.1	1,118.6	1,716.1	1,118.6
Illinois	6,000.0	5,025.8	61.9	40.6	0.0	0.0	34.1	34.1	88.2	88.2	0.0	0.0	6,184.2	5,188.7	431.8	185.9	493.7	226.5	493.7	226.5
Indiana	2,439.8	2,309.8	277.4	224.3	0.0	0.0	66.2	66.2	70.8	70.8	0.0	0.0	2,854.2	2,671.1	121.6	94.5	399.0	318.8	399.0	318.8
Michigan	2,484.3	2,061.8	102.0	100.2	0.0	0.0	273.4	273.4	508.0	504.0	0.0	0.0	3,367.7	2,939.4	122.9	91.8	224.9	192.0	224.9	192.0
Ohio	852.5	718.4	111.6	100.8	0.0	0.0	101.9	101.9	138.7	143.5	0.0	0.0	1,204.7	1,064.6	189.1	158.6	300.7	259.4	300.7	259.4
Wisconsin	319.7	319.7	195.4	40.4	0.0	0.0	410.5	409.0	356.8	359.1	0.0	0.0	1,282.4	1,128.2	102.4	81.5	297.8	121.9	297.8	121.9
West North Central	30,640.5	26,257.0	1,146.1	977.6	0.0	0.0	3,304.1	3,295.5	421.0	421.0	0.0	0.0	35,511.7	30,951.1	517.0	430.5	1,663.1	1,408.1	1,663.1	1,408.1
Iowa	10,829.5	8,844.2	16.0	13.4	0.0	0.0	146.4	146.4	20.6	20.6	0.0	0.0	11,012.5	9,024.6	144.0	114.3	160.0	127.7	160.0	127.7
Kansas	6,523.6	6,133.4	30.2	10.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	6,569.8	6,159.6	31.1	24.7	61.3	34.9	61.3	34.9
Minnesota	4,052.2	3,847.2	1,013.5	872.6	0.0	0.0	214.5	205.9	346.4	346.4	0.0	0.0	5,626.6	5,272.1	95.2	80.1	1,108.7	952.7	1,108.7	952.7
Missouri	1,196.3	954.3	62.1	62.1	0.0	0.0	548.5	548.5	14.1	14.1	0.0	0.0	1,821.0	1,579.0	232.1	200.3	294.2	262.4	294.2	262.4
Nebraska	2,410.8	2,178.3	23.3	18.3	0.0	0.0	279.7	279.7	15.7	15.7	0.0	0.0	2,729.5	2,492.0	12.9	9.8	36.2	28.1	36.2	28.1
North Dakota	3,678.5	3,221.8	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	4,198.3	3,741.6	0.6	0.5	0.6	0.5	0.6	0.5
South Dakota	1,949.6	1,077.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	5.4	5.4	0.0	0.0	3,554.0	2,682.2	1.0	0.8	2.0	1.8	2.0	1.8
South Atlantic	1,142.5	1,086.3	12,485.5	8,673.6	0.0	0.0	7,189.2	7,187.2	4,335.6	4,221.2	0.0	0.0	25,152.8	21,168.3	2,586.3	2,067.0	15,071.8	10,740.6	15,071.8	10,740.6
Delaware	2.0	2.0	36.7	33.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	50.9	47.9	87.8	85.3	124.5	119.0	124.5	119.0
District of Columbia	0.0	0.0	9.3	6.9	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	21.3	18.9	81.4	65.3	90.7	72.2	90.7	72.2
Florida	0.0	0.0	3,414.7	1,975.9	0.0	0.0	43.5	43.5	1,184.1	1,185.7	0.0	0.0	4,642.3	3,205.1	747.3	454.7	4,162.0	2,430.6	4,162.0	2,430.6
Georgia	0.0	0.0	2,034.5	1,144.9	0.0	0.0	2,031.0	2,031.0	1,059.8	943.8	0.0	0.0	5,125.3	4,119.7	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	343.3	312.5	0.0	0.0	590.0	590.0	140.9	140.9	0.0	0.0	1,264.2	1,233.4	815.5	768.5	1,158.8	1,081.0	1,158.8	1,081.0
North Carolina	208.0	208.0	4,727.9	4,230.3	0.0	0.0	2,006.0	2,004.0	564.0	564.0	0.0	0.0	7,505.9	7,006.3	229.5	178.6	4,957.4	4,408.9	4,957.4	4,408.9
South Carolina	0.0	0.0	966.4	555.7	0.0	0.0	1,311.9	1,311.9	554.5	554.5	0.0	0.0	2,832.8	2,422.1	260.0	228.3	1,226.4	784.0	1,226.4	784.0
Virginia	0.0	0.0	952.7	413.7	0.0	0.0	866.0	866.0	804.9	804.9	0.0	0.0	2,623.6	2,084.6	155.4	96.1	1,108.1	509.8	1,108.1	509.8
West Virginia	742.5	686.3	0.0	0.0	0.0	0.0	340.8	340.8	3.2	3.2	0.0	0.0	1,086.5	1,030.3	10.8	9.2	10.8	9.2	10.8	9.2
East South Central	29.1	29.1	620.5	566.3	0.0	0.0	7,055.3	7,055.3	1,206.3	1,202.3	0.0	0.0	8,911.2	8,853.0	113.8	104.2	734.3	670.5	734.3	670.5
Alabama	0.0	0.0	194.1	194.1	0.0	0.0	3,291.8	3,291.8	633.1	629.1	0.0	0.0	4,119.0	4,115.0	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	26.1	26.1	0.0	0.0	1,146.9	1,146.9	74.6	74.6	0.0	0.0	1,247.6	1,247.6	34.9	28.0	61.0	54.1	61.0	54.1
Mississippi	0.0	0.0	218.1	165.6	0.0	0.0	0.0	0.0	302.4	302.4	0.0	0.0	520.5	468.0	9.0	8.8	227.1	174.4	227.1	174.4
Tennessee	29.1	29.1	182.2	180.5	0.0	0.0	2,616.6	2,616.6	196.2	196.2	0.0	0.0	3,024.1	3,022.4	60.8	58.7	243.0	239.2	243.0	239.2
West South Central	37,846.5	35,525.4	4,568.0	2,384.5	0.0	0.0	3,029.5	2,991.4	1,164.4	1,164.4	0.0	0.0	46,608.4	42,065.7	1,290.8	833.8	5,858.8	3,218.3	5,858.8	3,218.3
Arkansas	0.0	0.0	212.2	110.0	0.0	0.0	1,265.8	1,265.8	264.7	264.7	0.0	0.0	1,742.7	1,640.5	58.3	24.5	270.5	134.5	270.5	134.5
Louisiana	0.0	0.0	51.1	1.1	0.0	0.0	192.0	192.0	422.1	422.1	0.0	0.0	665.2	615.2	155.5	146.4	206.6	147.5	206.6	147.5
Oklahoma	8,616.9	8,068.7	40.5	30.5	0.0	0.0	865.6	863.6	76.2	76.2	0.0	0.0	9,599.2	9,039.0	20.0	12.3	60.5	42.8	60.5	42.8
Texas	29,229.6	27,456.7	4,264.2	2,242.9	0.0	0.0	706.1	670.0	401.4	401.4	0.0	0.0	34,601.3	30,771.0	1,057.1	650.6	5,321.3	2,893.5	5,321.3	2,893.5
Mountain	11,162.4	9,846.9	7,186.1	6,357.3	474.1	474.1	10,663.1	10,652.9	179.1	183.6	656.7	656.7	30,321.5	28,171.5	3,195.3	2,696.6	10,381.4	9,053.9	10,855.5	9,528.0
Arizona	267.3	267.3	2,025.3	1,832.8	295.6	295.6	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,339.8	5,147.3	1,624.5	1,410.9	3,649.8	3,243.7	3,945.4	3,539.3
Colorado	4,714.9	3,757.9	676.8	604.5	0.0	0.0	691.2	684.1	28.7	28.7	0.0	0.0	6,111.6	5,075.2	450.0	383.2	1,126.8	987.7	1,126.8	987.7
Idaho	970.4	970.4	242.0	242.0	0.0	0.0	2,767.4	2,764.2	88.7	93.2	10.0	10.0	4,078.5	4,079.8	59.1	41.8	301.1	283.8	301.1	283.8
Montana	871.3	791.3	17.0	17.0	0.0	0.0	2,782.6	2,782.7	3.0	3.0	0.0	0.0	3,673.9	3,594.0	24.6	17.3	41.6	34.3	41.6	34.3
Nevada	150.0	150.0	2,203.5	2,049.1	178.5	178.5	1,051.4	1,051.4	9.8	9.8	567.4	567.4	4,160.6	4,006.2	507.3	402.6	2,710.8	2,451.7	2,889.3	2,630.2
New Mexico	2,035.9	2,035.9	733.8	603.2	0.0	0.0	82.9	82.9	5.4	5.4	8.6	8.6	2,866.6	2,736.0	197.9	165.9	931.7	769.1	931.7	769.1
Utah	388.2	388.2	1,195.7	916.7	0.0	0.0	259.6	259.6	12.8	12.8	70.7	70.7	1,927.0	1,648.0	323.3	268.8	1,519.0	1,185.5	1,519.0	1,185.5
Wyoming	1,764.4	1,485.9	92.0	92.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	2,163.5	1,885.0	8.5	6.2	100.5	98.2	100.5	98.2
Pacific Contiguous	12,875.2	12,499.6	12,646.6	11,499.2	1,284.0	1,284.0	39,893.2	39,774.0	1,904.5	1,893.7	1,855.7	1,855.7	70,459.2	68,806.2	10,763.8	9,334.1	23,410.4	20,833.3	24,694.4	22,117.3
California	6,027.4	6,011.2	12,075.1	11,148.2	1,284.0	1,284.0	10,231.6	10,231.6	1,205.1	1,194.3	1,836.2	1,836.2	32,659.4	31,705.5	10,369.8	8,999.3	22,444.9	20,147.5	23,728.9	21,431.5
Oregon	3,615.3	3,415.3	548.6	331.3	0.0	0.0	8,317.0	8,317.0	315.0	315.0	19.5	19.5	12,815.4	12,398.1	194.4	169.2	743.0	500.5	743.0	500.5
Washington	3,232.5	3,073.1	22.9	19.7	0.0	0.0	21,344.6	21,225.4	384.4	384.4	0.0	0.0	24,984.4	24,702.6	199.6	165.7	222.5	185.4	222.5	185.4
Pacific Noncontiguous	266.6	266.6	283.5	253.7	0.0	0.0	503.0	503.0	160.9	160.9	43.0	43.0	1,257.0	1,227.2	728.7	668.4	1,012.2	922.1	1,012.2	922.1
Alaska	61.0	61.0	0.0	0.0	0.0	0.0	470.6	470.6	7.0	7.0	0.0	0.0	538.6	538.6	8.1	5.4	8.1	5.4	8.1	5.4
Hawaii	205.6	205.6	283.5	253.7	0.0	0.0	32.4	32.4	153.9	153.9	43.0	43.0	718.4	688.6	720.6	663.0	1,004.1	916.7	1,004.1	916.7
U.S. Total	110,975.6	100,739.1	42,750.5	33,658.4	1,758.1	1,758.1	79,952.7	79,771.9	13,058.8	13,059.7	2,555.4	2,555.4	251,051.1	231,542.6	27,054.0	22,666.6	69,804.5	56,325.0	71,562.6	58,083.1

NM = Not meaningful due to large relative standard error.
Values for 2019 are final. Values for 2020 are preliminary.

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, November 2020 and 2019 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019	November 2020	November 2019
New England	14,270.7	14,271.6	1,776.0	1,776.0	1,501.3	1,523.7	917.3	917.3	0.0	0.0	5,736.9	5,738.9	0.0	0.0	24,202.2	24,227.5
Connecticut	3,984.2	3,984.2	580.4	580.4	888.3	883.3	383.4	383.4	0.0	0.0	2,034.9	2,034.9	0.0	0.0	7,871.2	7,866.2
Maine	1,285.6	1,281.6	322.3	322.3	12.5	12.5	0.0	0.0	0.0	0.0	878.9	880.9	0.0	0.0	2,499.3	2,497.3
Massachusetts	5,952.7	5,960.6	857.1	857.1	174.9	202.3	0.0	0.0	0.0	0.0	2,576.4	2,576.4	0.0	0.0	9,561.1	9,596.4
New Hampshire	1,258.0	1,258.0	3.8	3.8	400.2	400.2	533.9	533.9	0.0	0.0	94.0	94.0	0.0	0.0	2,289.9	2,289.9
Rhode Island	1,790.2	1,787.2	12.4	12.4	25.4	25.4	0.0	0.0	0.0	0.0	7.1	7.1	0.0	0.0	1,835.1	1,832.1
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.6	145.6	0.0	0.0	145.6	145.6
Middle Atlantic	36,463.5	33,319.5	7,838.0	7,894.3	14,262.5	14,124.0	10,214.7	11,183.7	11.6	11.6	5,364.7	5,363.5	115.9	115.9	74,270.9	72,012.5
New Jersey	8,579.0	8,579.0	2,844.3	2,844.3	71.7	68.5	463.0	463.0	11.6	11.6	246.1	246.1	29.0	29.0	12,244.7	12,241.5
New York	9,942.7	8,927.9	3,120.5	3,177.6	9,854.5	9,741.3	520.0	1,336.5	0.0	0.0	3,551.3	3,550.1	0.0	0.0	26,989.0	26,733.4
Pennsylvania	17,941.8	15,812.6	1,873.2	1,872.4	4,336.3	4,314.2	9,231.7	9,384.2	0.0	0.0	1,567.3	1,567.3	86.9	86.9	35,037.2	33,037.6
East North Central	22,411.8	21,684.9	26,489.8	26,781.0	5,646.3	5,615.4	49,902.8	51,898.3	247.6	247.6	2,323.2	2,384.1	1,084.9	1,084.9	108,106.4	109,696.2
Illinois	3,577.7	3,577.7	10,530.4	10,530.4	1,626.7	1,626.7	10,615.5	11,025.5	0.0	0.0	672.9	675.6	36.5	36.5	27,059.7	27,472.4
Indiana	3,866.0	3,866.0	3,256.3	3,352.3	763.2	741.0	15,229.3	15,245.7	0.0	0.0	98.3	98.3	619.3	619.3	23,832.4	23,922.6
Michigan	4,451.9	4,425.0	3,850.1	3,887.9	2,411.4	2,412.1	8,521.2	8,590.3	47.2	47.2	464.8	467.8	250.0	250.0	19,996.6	20,080.3
Ohio	7,037.8	7,037.8	5,636.7	5,636.7	214.9	205.5	9,996.0	11,496.0	142.0	142.0	507.5	562.1	179.1	179.1	23,714.0	25,259.2
Wisconsin	3,478.4	2,778.4	3,216.3	3,373.7	630.1	630.1	5,540.8	5,540.8	58.4	58.4	579.7	580.3	0.0	0.0	13,503.7	12,961.7
West North Central	7,028.6	7,019.1	11,591.5	11,587.5	3,878.4	3,757.6	32,759.1	32,979.1	32.0	32.0	3,854.8	3,856.7	8.4	8.4	59,152.8	59,240.4
Iowa	1,829.0	1,829.0	1,226.8	1,226.8	590.1	591.3	5,343.8	5,343.8	32.0	32.0	824.7	820.2	0.0	0.0	9,846.4	9,843.1
Kansas	266.0	266.0	2,158.1	2,158.1	1,342.6	1,185.6	4,678.5	4,678.5	0.0	0.0	557.9	557.9	0.0	0.0	9,003.1	8,846.1
Minnesota	2,483.0	2,496.0	2,544.8	2,544.8	375.2	401.2	4,180.5	4,180.5	0.0	0.0	767.4	767.1	0.0	0.0	10,350.9	10,389.6
Missouri	1,817.4	1,794.9	3,394.7	3,390.7	869.5	878.5	10,266.5	10,486.5	0.0	0.0	1,105.5	1,108.4	0.0	0.0	17,453.6	17,659.0
Nebraska	338.2	338.2	1,148.4	1,148.4	521.7	521.7	3,867.0	3,867.0	0.0	0.0	321.0	321.0	0.0	0.0	6,196.3	6,196.3
North Dakota	0.0	0.0	414.0	414.0	167.0	167.0	3,948.8	3,948.8	0.0	0.0	63.2	63.2	8.4	8.4	4,601.4	4,601.4
South Dakota	295.0	295.0	704.7	704.7	12.3	12.3	474.0	474.0	0.0	0.0	215.1	218.9	0.0	0.0	1,701.1	1,704.9
South Atlantic	61,778.2	60,976.9	31,880.5	32,241.2	7,271.5	7,250.4	50,448.1	51,483.1	142.8	142.8	8,634.4	8,912.5	135.0	135.0	160,290.5	161,141.9
Delaware	1,504.0	1,504.0	272.0	272.0	842.0	842.0	410.0	410.0	0.0	0.0	158.5	158.5	135.0	135.0	3,321.5	3,321.5
District of Columbia	0.0	0.0	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	20.6
Florida	31,874.4	31,621.3	7,918.7	7,912.7	2,521.7	2,503.2	7,812.0	7,782.0	59.0	59.0	3,272.6	3,296.6	0.0	0.0	53,458.4	53,174.8
Georgia	8,009.5	8,009.5	7,803.2	7,803.2	843.5	842.9	8,416.0	8,416.0	83.8	83.8	946.0	945.4	0.0	0.0	26,102.0	26,100.8
Maryland	2,709.1	2,709.1	1,851.7	2,084.2	1,418.1	1,416.1	3,633.0	4,270.0	0.0	0.0	1,171.3	1,191.3	0.0	0.0	10,783.2	11,670.7
North Carolina	5,628.2	5,080.0	6,050.4	6,050.4	1.0	1.0	10,011.2	10,389.2	0.0	0.0	502.0	502.0	0.0	0.0	22,192.8	22,022.6
South Carolina	3,185.0	3,185.0	2,625.2	2,759.4	950.0	950.0	4,769.0	4,769.0	0.0	0.0	234.9	466.9	0.0	0.0	11,764.1	12,130.3
Virginia	8,868.0	8,868.0	4,245.3	4,245.3	579.7	579.7	2,878.9	2,878.9	0.0	0.0	2,338.1	2,340.8	0.0	0.0	18,910.0	18,912.7
West Virginia	0.0	0.0	1,093.4	1,093.4	115.5	115.5	12,518.0	12,568.0	0.0	0.0	11.0	11.0	0.0	0.0	13,737.9	13,787.9
East South Central	21,797.2	21,772.2	12,714.7	12,692.3	4,308.4	4,285.8	21,930.6	23,855.4	0.0	0.0	106.7	106.7	19.8	19.8	60,877.4	62,732.2
Alabama	9,754.8	9,729.8	2,575.8	2,575.8	1,957.8	1,957.8	4,730.3	5,284.3	0.0	0.0	42.6	42.6	19.8	19.8	19,081.1	19,610.1
Kentucky	1,763.0	1,763.0	4,931.2	4,945.2	260.0	260.0	9,911.0	11,281.8	0.0	0.0	11.9	11.9	0.0	0.0	16,877.1	18,261.9
Mississippi	7,824.3	7,824.3	1,375.2	1,338.8	2,024.4	2,001.8	1,444.0	1,444.0	0.0	0.0	9.0	9.0	0.0	0.0	12,676.9	12,617.9
Tennessee	2,455.1	2,455.1	3,832.5	3,832.5	66.2	66.2	5,845.3	5,845.3	0.0	0.0	43.2	43.2	0.0	0.0	12,242.3	12,242.3
West South Central	62,822.1	61,694.7	14,985.7	14,548.7	30,408.5	30,602.7	29,469.1	30,119.1	878.9	878.9	169.1	169.1	818.3	810.3	139,551.7	138,823.5
Arkansas	4,609.8	4,609.8	702.8	702.8	796.0	796.0	5,163.4	5,163.4	0.0	0.0	9.0	9.0	0.0	0.0	11,281.0	11,281.0
Louisiana	9,654.2	8,654.2	2,666.1	2,415.1	6,064.1	6,090.1	2,837.1	2,837.1	815.1	815.1	43.2	43.2	407.4	407.4	22,487.2	21,262.2
Oklahoma	7,321.2	7,321.2	1,630.9	1,630.9	5,706.1	5,706.1	3,246.0	3,246.0	0.0	0.0	74.4	74.4	0.0	0.0	17,978.6	17,978.6
Texas	41,236.9	41,109.5	9,985.9	9,799.9	17,842.3	18,010.5	18,222.6	18,872.6	63.8	63.8	42.5	42.5	410.9	402.9	87,804.9	88,301.7
Mountain	22,546.5	22,545.0	9,137.3	9,137.3	3,619.6	3,540.9	23,472.5	24,414.5	52.0	52.0	349.9	349.9	103.5	103.5	59,281.3	60,143.1
Arizona	9,908.6	9,908.6	2,899.0	2,899.0	1,278.6	1,190.1	3,329.0	3,329.0	0.0	0.0	90.5	90.5	0.0	0.0	17,505.7	17,417.2
Colorado	3,249.5	3,249.5	2,538.0	2,538.0	639.0	639.0	4,340.0	4,340.0	0.0	0.0	166.4	166.4	0.0	0.0	10,932.9	10,932.9
Idaho	547.7	547.7	552.0	552.0	8.2	8.2	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,121.8	1,121.8
Montana	0.0	0.0	315.8	315.8	72.2	72.2	1,683.6	2,297.6	52.0	52.0	0.0	0.0	1.5	1.5	2,125.1	2,739.1
Nevada	5,445.0	5,445.0	1,185.6	1,185.6	444.6	444.6	740.4	740.4	0.0	0.0	6.0	6.0	0.0	0.0	7,821.6	7,821.6
New Mexico	1,471.7	1,470.2	957.0	957.0	847.7	847.7	2,387.0	2,640.0	0.0	0.0	48.0	48.0	0.0	0.0	5,711.4	5,962.9
Utah	1,830.0	1,830.0	536.3	536.3	318.4	328.2	4,581.0	4,656.0	0.0	0.0	27.8	27.8	0.0	0.0	7,293.5	7,378.3
Wyoming	94.0	94.0	153.6	153.6	10.9	10.9	6,403.0	6,403.0	0.0	0.0	5.8	5.8	102.0	102.0	6,769.3	6,769.3
Pacific Contiguous	26,411.9	25,908.9	12,089.9	12,054.4	5,444.0	6,515.4	1,397.0	1,982.0	20.0	20.0	469.8	469.8	221.4	221.4	46,054.0	47,171.9
California	20,404.3	19,901.3	11,236.7	11,201.4	5,188.0	6,259.4	57.0	57.0	20.0	20.0	454.6	454.6	221.4	221.4	37,582.0	38,115.1
Oregon	3,372.0	3,372.0	133.8	133.8	224.4	224.4	0.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	3,730.2	4,315.2
Washington	2,635.6	2,635.6	719.4	719.2	31.6	31.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,741.8	4,741.6
Pacific Noncontiguous	477.2	477.2	631.1	631.1	175.0	175.0	348.9	331.9	0.0	0.0	2,730.7	2,730.7	0.0	0.0	4,362.9	4,345.9
Alaska	477.2	477.2	631.1	631.1	175.0	175.0	168.9	151.9	0.0	0.0	739.4	739.4	0.0	0.0	2,191.6	2,174.6
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,991.3	1,991.3	0.0	0.0	2,171.3	2,171.3
U.S. Total	276,007.7	269,670.0	129,134.5	129,343.8	76,515.5	77,390.9	220,860.1	229,164.4	1,384.9	1,384.9	29,740.2	30,081.9	2,507.2	2,499.2	736,150.1	739,535.1

NM = Not meaningful due to large relative standard error.
Values for 2019 are final. Values for 2020 are preliminary.

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

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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	1	61012	AES Distributed Energy	IPP	AES Tonawanda Solar LLC	NY	63161	TNWDA	2.0	Solar Photovoltaic	SUN	PV
2020	1	61012	AES Distributed Energy	IPP	RT 52 Walden Solar 1, LLC Hybrid	NY	63000	BESS	4.0	Batteries	MWH	BA
2020	1	63115	AZ Solar 1, LLC	IPP	OE_AZ1	AZ	63349	AZ1	32.5	Solar Photovoltaic	SUN	PV
2020	1	60496	Adapture Renewables, Inc.	IPP	Brush Solar Center	OR	61844	BRUSH	2.8	Solar Photovoltaic	SUN	PV
2020	1	60281	Altus Power America Management, LLC	IPP	FastSun 18 CSG	MN	63034	FS18	1.0	Solar Photovoltaic	SUN	PV
2020	1	60281	Altus Power America Management, LLC	IPP	FastSun 5 CSG	MN	63045	FS5	1.0	Solar Photovoltaic	SUN	PV
2020	1	63049	Cannon Garden LLC	IPP	Cannon Garden Solar	MN	63252	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	1	63466	Conductive Power	IPP	Ben Moreell Solar Farm	NJ	63786	BMSF	20.0	Solar Photovoltaic	SUN	PV
2020	1	56769	Consolidated Edison Development Inc.	IPP	PA Solar Park II	PA	63520	PASP2	10.0	Solar Photovoltaic	SUN	PV
2020	1	63120	Cubera Solar, LLC	IPP	Cubera Solar, LLC	NC	63346	PGR06	2.0	Solar Photovoltaic	SUN	PV
2020	1	62801	DG Linden New Jersey LLC	IPP	DG Infineum	NJ	62958	INFNM	2.0	Solar Photovoltaic	SUN	PV
2020	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	153.0	Natural Gas Fired Combined Cycle	NG	CT
2020	1	61785	EDP Renewables North America LLC	IPP	Sun Streams, LLC	AZ	60827	GEN01	160.0	Solar Photovoltaic	SUN	PV
2020	1	12685	Entergy Mississippi LLC	Electric Utility	Hinds Energy Facility	MS	55218	H04BS	36.4	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	6452	Florida Power & Light Co	Electric Utility	Babcock Preserve	FL	62634	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Blue Heron Solar	FL	62631	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Cattle Ranch	FL	62632	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Northern Preserve Solar	FL	62645	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Sweetbay Solar Center	FL	62394	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Twin Lakes	FL	62633	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	62856	Forefront Power, LLC	IPP	White CSG	MD	63085	15124	2.0	Solar Photovoltaic	SUN	PV
2020	1	61374	Foxtail Wind, LLC	Electric Utility	Foxtail Wind, LLC	ND	61747	1	150.0	Onshore Wind Turbine	WND	WT
2020	1	63114	GA Solar 3, LLC	IPP	OE_GA3	GA	63350	GA3	57.5	Solar Photovoltaic	SUN	PV
2020	1	62062	GD Richmond Buttonwoods I, LLC	IPP	GD Richmond Buttonwoods I, LLC	RI	62567	GDBUT	1.3	Solar Photovoltaic	SUN	PV
2020	1	62061	GD West Greenwich Victory I, LLC	IPP	GD West Greenwich Victory I, LLC	RI	62568	GDVIC	1.8	Solar Photovoltaic	SUN	PV
2020	1	61194	Generate Capital	IPP	Kelly Bridge Road Community Solar Farm	NY	62154	12	2.0	Solar Photovoltaic	SUN	PV
2020	1	61194	Generate Capital	IPP	Sacket Lake Rd #1 Community Solar Farm	NY	62158	11	2.0	Solar Photovoltaic	SUN	PV
2020	1	61728	GlidePath Power Operations LLC	IPP	Prospect Storage	TX	62753	BESS	9.9	Batteries	MWH	BA
2020	1	60025	Greenbacker Renewable Energy Corporation	IPP	Fremont CO 1, LLC	CO	64031	228	1.8	Solar Photovoltaic	SUN	PV
2020	1	60025	Greenbacker Renewable Energy Corporation	IPP	Platteville Solar CSG, LLC	CO	63753	218	1.3	Solar Photovoltaic	SUN	PV
2020	1	60025	Greenbacker Renewable Energy Corporation	IPP	Sol Phoenix	MD	62331	SOLPH	2.5	Solar Photovoltaic	SUN	PV
2020	1	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar Farm II	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV
2020	1	9417	Interstate Power and Light Co	Electric Utility	Whispering Willow North	IA	62079	1	201.3	Onshore Wind Turbine	WND	WT
2020	1	62838	LSE Dorado, LLC	IPP	Goose Pond Solar	MA	62992	GPNOR	2.0	Solar Photovoltaic	SUN	PV
2020	1	62838	LSE Dorado, LLC	IPP	Goose Pond Solar	MA	62992	GPSOU	2.0	Solar Photovoltaic	SUN	PV
2020	1	12341	MidAmerican Energy Co	Electric Utility	Palo Alto Wind Farm	IA	63053	PAWF	250.0	Onshore Wind Turbine	WND	WT
2020	1	61925	Middlesex-Yates Solar, LLC	IPP	Daum Solar	NY	62412	DAUM	4.0	Solar Photovoltaic	SUN	PV
2020	1	63048	Misae Lessee LLC	IPP	Misae Solar	TX	62249	77777	240.0	Solar Photovoltaic	SUN	PV
2020	1	56990	NJR Clean Energy Ventures Corporation	IPP	Franklin Solar	NJ	63149	FRANK	8.8	Solar Photovoltaic	SUN	PV
2020	1	56990	NJR Clean Energy Ventures Corporation	IPP	Pohatcong Solar Farm	NJ	63150	POHAT	8.0	Solar Photovoltaic	SUN	PV
2020	1	63402	Oak Leaf Solar XXXIII LLC (Lantz-Chaffey)	IPP	Oak Leaf Solar XXXIII LLC (Lantz)	CO	63681	13	1.5	Solar Photovoltaic	SUN	PV
2020	1	63402	Oak Leaf Solar XXXIII LLC (Lantz-Chaffey)	IPP	Oak Leaf Solar XXXIII LLC (Lantz)	CO	63681	14	1.5	Solar Photovoltaic	SUN	PV
2020	1	63491	Partridgeville Road Solar 1, LLC	IPP	Partridgeville Hybrid CSG	MA	63804	PAR	3.3	Solar Photovoltaic	SUN	PV
2020	1	63491	Partridgeville Road Solar 1, LLC	IPP	Partridgeville Hybrid CSG	MA	63804	PBESS	2.0	Batteries	MWH	BA
2020	1	62796	Paulding Wind Farm IV LLC	IPP	Timber Road IV	OH	62944	TRIV	125.1	Onshore Wind Turbine	WND	WT
2020	1	62964	Prawer Community Solar LLC	IPP	Prawer Project CSG	MN	63176	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST
2020	1	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV
2020	1	62966	STAG St. Paul Community Solar LLC	IPP	STAG St. Paul Project CSG	MN	63178	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	Mtn. Solar 3 CSG	CO	63379	X0134	1.5	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Cheyenne Solar LLC CSG	MN	63145	CHYNE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Greenhouse Solar LLC CSG	MN	63143	GRHSE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Turkey Solar LLC CSG	MN	63148	TURKY	1.0	Solar Photovoltaic	SUN	PV
2020	1	62906	Syncarpha Questa I, LLC	IPP	Syncarpha Questa	NM	63125	SYNQU	1.6	Solar Photovoltaic	SUN	PV
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC10	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC6	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC7	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC8	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC9	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	63188	West Deptford Distributed Solar, LLC	IPP	Solvay Solar	NJ	63452	SSP	6.5	Solar Photovoltaic	SUN	PV
2020	1	63535	Westerlo NY 1, LLC	IPP	Westerlo NY 1	NY	63858	8175A	2.0	Solar Photovoltaic	SUN	PV
2020	1	20854	Winnebago County	Electric CHP	Winnebago County Landfill Gas	WI	50936	EG2R	0.6	Landfill Gas	LFG	IC

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	2	61669	AES Alamitos Energy, LLC	IPP	AES Alamitos Energy Center	CA	62115	1A	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61669	AES Alamitos Energy, LLC	IPP	AES Alamitos Energy Center	CA	62115	1B	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61669	AES Alamitos Energy, LLC	IPP	AES Alamitos Energy Center	CA	62115	1S	215.0	Natural Gas Fired Combined Cycle	NG	CA
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1A	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1B	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1S	215.0	Natural Gas Fired Combined Cycle	NG	CA
2020	2	60496	Adapture Renewables, Inc.	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV
2020	2	61608	Agilon Energy Holdings II, LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	61608	Agilon Energy Holdings II, LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	62627	Alchemy Renewable Energy	IPP	Duus Solar, LLC	OR	63330	ORDUS	10.0	Solar Photovoltaic	SUN	PV
2020	2	62627	Alchemy Renewable Energy	IPP	Firwood Solar, LLC	OR	63331	ORFWD	10.0	Solar Photovoltaic	SUN	PV
2020	2	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC
2020	2	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV
2020	2	63143	Falls Creek Garden LLC	IPP	Falls Creek Garden	MN	63394	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	62856	Forefront Power, LLC	IPP	Howell CSG	NY	63107	1725	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Boas Rd #4 Community Solar Farm	NY	62533	1023	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Burritt Rd Community Solar Farm	NY	62480	635	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Villa Roma Rd #1	NY	62525	40	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Villa Roma Rd #2	NY	62526	41	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Washington St Community Solar Farm #1	NY	62472	617	2.2	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Washington St Community Solar Farm #4	NY	62471	1034	2.5	Solar Photovoltaic	SUN	PV
2020	2	63228	Gohman Community Solar LLC	IPP	Gohman Community Solar (CSG)	MN	63484	GOHMN	1.1	Solar Photovoltaic	SUN	PV
2020	2	62106	Hidalgo Wind Farm II LLC	IPP	Hidalgo Wind Farm II	TX	62618	WT	50.4	Onshore Wind Turbine	WND	WT
2020	2	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	61620	IOS II LLC	IPP	IOS II-LAX9	CA	63414	IOSII	3.7	Solar Photovoltaic	SUN	PV
2020	2	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	PV1	2.6	Solar Photovoltaic	SUN	PV
2020	2	49893	Invenergy Services LLC	IPP	Camilla Solar Energy Project	GA	61785	CAMSR	171.4	Solar Photovoltaic	SUN	PV
2020	2	63213	Jemez Cuba LLC	IPP	Alcalde Solar Array	NM	63477	SOLAR	2.4	Solar Photovoltaic	SUN	PV
2020	2	61957	Kearny Mesa Storage LLC	IPP	Kearny Mesa Storage LLC	CA	62441	U1	1.0	Batteries	MWH	BA
2020	2	63158	Loon Garden LLC	IPP	Loon Garden	MN	63397	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar One LLC CSG	MN	63380	52829	1.0	Solar Photovoltaic	SUN	PV
2020	2	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar Three LLC CSG	MN	63417	52831	1.0	Solar Photovoltaic	SUN	PV
2020	2	12341	MidAmerican Energy Co	Electric Utility	Arbor Hill Wind Farm	IA	62132	1	60.0	Onshore Wind Turbine	WND	WT
2020	2	63462	NY- CSG- Livingston 4	IPP	NY- CSG- Livingston 4	NY	63781	LIV4	2.0	Solar Photovoltaic	SUN	PV
2020	2	62832	Novel Herber Solar LLC	IPP	Novel Herber Solar CSG	MN	62966	HERB	1.0	Solar Photovoltaic	SUN	PV
2020	2	60531	Standard Solar	IPP	USS Midtown Solar LLC CSG	MN	63146	MDTWN	1.0	Solar Photovoltaic	SUN	PV
2020	2	63144	Star Garden LLC	IPP	Star Garden	MN	63395	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	63131	Strandness Garden LLC	IPP	Strandness Garden	MN	63367	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	18454	Tampa Electric Co	Electric Utility	Little Manatee River Solar	FL	62750	GEN1	74.5	Solar Photovoltaic	SUN	PV
2020	2	60947	Tesla Inc.	IPP	Walnut Unified School District Walnut HS Hybrid	CA	63510	PV1	1.8	Solar Photovoltaic	SUN	PV
2020	2	60947	Tesla Inc.	IPP	Walnut Unified School District Walnut HS Hybrid	CA	63510	ST1	0.5	Batteries	MWH	BA
2020	2	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST
2020	2	62701	Vista Solar, Inc.	IPP	Shelter Creek Condominiums Solar	CA	62806	SCC01	2.4	Solar Photovoltaic	SUN	PV
2020	2	57354	X-Elio North America Inc	IPP	Lily Solar	SC	63548	1	70.0	Solar Photovoltaic	SUN	PV
2020	3	60571	AEP Onsite Partners	IPP	Galesburg Solar Array	IL	63399	GWA01	1.4	Solar Photovoltaic	SUN	PV
2020	3	61012	AES Distributed Energy	IPP	Hurteau Solar Project Hybrid	MA	63468	BATT	1.3	Batteries	MWH	BA
2020	3	61012	AES Distributed Energy	IPP	Hurteau Solar Project Hybrid	MA	63468	HURTU	2.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 10 CSG	MN	63038	FS10	1.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 11 CSG	MN	63037	FS11	1.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 9 CSG	MN	63040	FS9	1.0	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT5	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT6	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT7	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	TRCK1	4.0	Solar Photovoltaic	SUN	PV
2020	3	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	150.0	Onshore Wind Turbine	WND	WT
2020	3	56953	Bos Dairy, LLC	Industrial	Bos Dairy, LLC	IN	57625	BOS4	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	3	63157	Buffalo Garden LLC	IPP	Buffalo Garden	MN	63396	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT
2020	3	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV
2020	3	63177	Chub Garden LLC	IPP	Chub Garden Solar	MN	63430	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC
2020	3	18488	City of Taunton	Electric Utility	Cleary Flood Hybrid	MA	1682	BS1	2.9	Batteries	MWH	BA
2020	3	56769	Consolidated Edison Development Inc.	IPP	Lakehurst Solar	NJ	63503	LAKHS	9.6	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	3	63338	Crown Solar Center, LLC	IPP	Crown	SC	63635	CROWN	3.0	Solar Photovoltaic	SUN	PV
2020	3	63450	DG South Carolina Solar, LLC	IPP	Omtanke Solar	SC	63756	DGSC1	6.0	Solar Photovoltaic	SUN	PV
2020	3	6455	Duke Energy Florida, LLC	Electric Utility	Columbia Solar Power Plant	FL	61982	PV1	74.9	Solar Photovoltaic	SUN	PV
2020	3	56201	Engie North America	IPP	East Fork Wind Project, LLC	KS	62220	WTGS	195.8	Onshore Wind Turbine	WND	WT
2020	3	56201	Engie North America	IPP	Jumbo Hill Wind Project	TX	62630	WTGS1	160.7	Onshore Wind Turbine	WND	WT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA
2020	3	63685	Fitchburg Renewables, LLC	IPP	Fitchburg Renewables	MA	64045	4648	4.0	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Bullard High School Hybrid	CA	63420	903	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Bullard High School Hybrid	CA	63420	BA903	0.4	Batteries	MWH	BA
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School Hybrid	CA	63421	291	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School Hybrid	CA	63421	BA291	0.2	Batteries	MWH	BA
2020	3	63339	Fort Rock Solar I, LLC	IPP	Fort Rock I	OR	63636	FR1	9.9	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	Alden Solar CSG LLC	CO	64021	225	1.6	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	Blue Star	MD	62332	BLUES	7.5	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS CC, LLC	DC	63428	254	1.5	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS FE Trenton, LLC	NJ	63626	229	1.5	Solar Photovoltaic	SUN	PV
2020	3	9417	Interstate Power and Light Co	Electric Utility	Golden Plains	IA	62081	1	199.8	Onshore Wind Turbine	WND	WT
2020	3	62085	Mesquite Star LLC	IPP	Mesquite Star	TX	62587	MESQ	418.9	Onshore Wind Turbine	WND	WT
2020	3	63534	Middletown NY 1, LLC	IPP	Middletown NY 1	NY	63857	8175B	2.0	Solar Photovoltaic	SUN	PV
2020	3	63175	Mud Garden LLC	IPP	Mud Garden Solar	MN	63427	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	63461	NY- CSG- Johnstown 2	IPP	NY- CSG- Johnstown 2	NY	63780	JOHN2	2.0	Solar Photovoltaic	SUN	PV
2020	3	63185	Neighborhood Power Corp.	IPP	St Louis Solar	OR	63456	W9319	2.2	Solar Photovoltaic	SUN	PV
2020	3	62837	Novel DeCook Solar LLC	IPP	Novel DeCook Solar CSG	MN	62979	DECO	1.0	Solar Photovoltaic	SUN	PV
2020	3	61758	Prevailing Wind Park, LLC	IPP	Prevailing Wind Park	SD	62247	PWPSD	220.0	Onshore Wind Turbine	WND	WT
2020	3	63187	Rush Springs Energy Storage	IPP	Rush Springs Energy Storage (BA)	OK	63458	RUSHE	10.0	Batteries	MWH	BA
2020	3	60163	Soltage LLC	IPP	Ace Solar	SC	61937	18	1.0	Solar Photovoltaic	SUN	PV
2020	3	62971	South Energy Investments LLC	IPP	South Windsor Fuel Cell	CT	63302	SWFC5	5.0	Other Natural Gas	NG	FC
2020	3	60531	Standard Solar	IPP	NY 26 Carthage CSG	NY	63224	X0140	5.0	Solar Photovoltaic	SUN	PV
2020	3	63171	Straight Garden LLC	IPP	Straight Garden Solar	MN	63424	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC1	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC2	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC3	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC4	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC5	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	62103	Whitney Hill Wind Power LLC	IPP	Whitney Hill Wind Power LLC	IL	62606	WTHWP	65.0	Onshore Wind Turbine	WND	WT
2020	4	59496	Allete Clean Energy	IPP	South Peak Wind	MT	62939	41001	80.0	Onshore Wind Turbine	WND	WT
2020	4	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT
2020	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC5	18.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU1	11.3	Natural Gas Internal Combustion Engine	NG	IC
2020	4	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU2	11.3	Natural Gas Internal Combustion Engine	NG	IC
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U004	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U005	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U006	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	61060	Cypress Creek Renewables	IPP	Huntley	SC	63271	1295	75.0	Solar Photovoltaic	SUN	PV
2020	4	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA
2020	4	58135	Ecos Energy LLC	IPP	Plainfield Solar 2	CT	63263	PLFD2	1.0	Solar Photovoltaic	SUN	PV
2020	4	63176	Erin Garden LLC	IPP	Erin Garden Solar	MN	63429	CSG	1.0	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Echo River Solar	FL	62490	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Hibiscus Solar Energy Center	FL	62206	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Okeechobee Solar	FL	62491	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Southfork Solar	FL	62493	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	61944	GSRP	IPP	Chevron - Lost Hills Hybrid	CA	63545	GEN1	30.0	Solar Photovoltaic	SUN	PV
2020	4	61194	Generate Capital	IPP	Washington St Community Solar Farm #3	NY	62473	1035	2.5	Solar Photovoltaic	SUN	PV
2020	4	7801	Gulf Power Co	Electric Utility	Gulf Power Blue Indigo Energy	FL	63754	SBI01	74.5	Solar Photovoltaic	SUN	PV
2020	4	63399	Hertzberg Community Solar	IPP	Hertzberg Community (CSG)	MN	63680	HERTZ	1.0	Solar Photovoltaic	SUN	PV
2020	4	63398	Laurel Village Community Solar LLC	IPP	Laurel Village (CSG)	MN	63679	LAUR	1.0	Solar Photovoltaic	SUN	PV
2020	4	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Johnson Corner Solar 1	KS	62993	KSJC1	20.0	Solar Photovoltaic	SUN	PV
2020	4	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar Two LLC	MN	63533	52830	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	4	63442	Mount Hope Solar 2 LLC	IPP	Mount Hope West	NY	63748	MHW	2.0	Solar Photovoltaic	SUN	PV
2020	4	62863	Novel Bartel Solar LLC	IPP	Novel Bartel Solar CSG	MN	63004	BART	1.0	Solar Photovoltaic	SUN	PV
2020	4	62833	Novel Herickhoff Solar LLC	IPP	Novel Herickhoff Solar CSG	MN	62967	HERIC	1.0	Solar Photovoltaic	SUN	PV
2020	4	62009	Palmer Solar LLC	IPP	Palmer Solar	CO	62495	20181	60.0	Solar Photovoltaic	SUN	PV
2020	4	63397	Paulson Community Solar LLC	IPP	Paulson Community (CSG)	MN	63678	PAUL	1.0	Solar Photovoltaic	SUN	PV
2020	4	16380	RTC Properties Inc	Commercial	River Terminal Development Solar	NJ	60843	RTD6	0.2	Solar Photovoltaic	SUN	PV
2020	4	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA
2020	4	63452	Ralph's Grocery Company	Industrial	Kroger La Habra	CA	63758	KROLH	1.2	Solar Photovoltaic	SUN	PV
2020	4	63357	Sheriff Rd Solar LLC	IPP	Sheriff Road	MD	63654	SHRFF	1.1	Solar Photovoltaic	SUN	PV
2020	4	18454	Tampa Electric Co	Electric Utility	Wimauma Solar	FL	61667	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	63173	Zumbro Garden LLC	IPP	Zumbro Solar Garden	MN	63426	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	61012	AES Distributed Energy	IPP	Beals Medina Solar LLC CSG	NY	63130	BEALS	3.5	Solar Photovoltaic	SUN	PV
2020	5	60496	Adapture Renewables, Inc.	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV
2020	5	60496	Adapture Renewables, Inc.	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV
2020	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC Hybrid	CA	60094	BLSL3	136.8	Solar Photovoltaic	SUN	PV
2020	5	63205	Brush Creek Solar, LLC	IPP	Brush Creek Solar	OR	63464	PGR19	2.2	Solar Photovoltaic	SUN	PV
2020	5	62900	Caden Energix Rives Road LLC	IPP	Caden Energix Rives Road LLC	VA	63087	ENX01	19.7	Solar Photovoltaic	SUN	PV
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V110	22.0	Onshore Wind Turbine	WND	WT
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V120	220.0	Onshore Wind Turbine	WND	WT
2020	5	56769	Consolidated Edison Development Inc.	IPP	CED Mason City Wind	IA	63521	MCW1	7.5	Onshore Wind Turbine	WND	WT
2020	5	60370	DG AMP Solar, LLC	IPP	DG AMP Rittman Rd	OH	62941	AMPRR	2.6	Solar Photovoltaic	SUN	PV
2020	5	5109	DTE Electric Company	Electric Utility	Polaris Wind Park	MI	62290	1	168.6	Onshore Wind Turbine	WND	WT
2020	5	63207	Drift Creek Solar, LLC	IPP	Drift Creek Solar	OR	63466	PGR18	2.2	Solar Photovoltaic	SUN	PV
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Debary Solar Power Plant	FL	62542	PV1	74.5	Solar Photovoltaic	SUN	PV
2020	5	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	62759	Geronimo Energy	IPP	Hydra Community Solar Garden, LLC (CSG)	MN	63629	HYDRA	1.0	Solar Photovoltaic	SUN	PV
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	268.5	Natural Gas Fired Combined Cycle	NG	CT
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	268.5	Natural Gas Fired Combined Cycle	NG	CT
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA
2020	5	49893	Invenergy Services LLC	IPP	Beech Ridge II Wind Energy Center	WV	62482	GEN1	56.2	Onshore Wind Turbine	WND	WT
2020	5	63172	Leven Garden LLC	IPP	Leven Garden Solar	MN	63425	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	62915	Madison Energy Holdings LLC	IPP	Pinesburg Solar LLC	MD	63903	PINE1	4.3	Solar Photovoltaic	SUN	PV
2020	5	63174	Maston Garden LLC	IPP	Maston Garden Solar	MN	63434	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN16	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	5	56990	NJR Clean Energy Ventures Corporation	IPP	Campus Drive Solar	NJ	63334	CAMPS	3.7	Solar Photovoltaic	SUN	PV
2020	5	62849	Novel Byron Solar LLC	IPP	Novel Byron Solar CSG	MN	62985	BYRN	1.0	Solar Photovoltaic	SUN	PV
2020	5	63183	Oxy Renewable Energy LLC	IPP	Oxy Renewable Energy - Goldsmith	TX	63388	SOLAR	16.8	Solar Photovoltaic	SUN	PV
2020	5	63189	Rock County Wind Fuel, LLC	IPP	Rock County Wind Fuel, LLC	MN	63460	RCWF	5.0	Onshore Wind Turbine	WND	WT
2020	5	63074	Scout Clean Energy LLC	IPP	Heart of Texas Wind Project	TX	61032	HTX	180.0	Onshore Wind Turbine	WND	WT
2020	5	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Industries (2042-RD)	CA	63416	GEN1	8.4	Solar Photovoltaic	SUN	PV
2020	5	17650	Southern Power Co	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT
2020	5	63763	Still Water Power LLC	IPP	Still Water Power	CA	64141	4	1.0	Other Waste Biomass	OBG	IC
2020	5	60970	SunShare Management	IPP	Linden 01 CSG	MN	63179	KANE1	1.0	Solar Photovoltaic	SUN	PV
2020	5	60970	SunShare Management	IPP	Linden 02 CSG	MN	63182	LIND2	1.0	Solar Photovoltaic	SUN	PV
2020	5	60970	SunShare Management	IPP	Linden 03 CSG	MN	63183	LIND3	1.0	Solar Photovoltaic	SUN	PV
2020	5	62822	Syncarpha Blandford, LLC	IPP	Syncarpha Blandford Hybrid CSG	MA	62975	SYBLB	3.9	Batteries	MWH	BA
2020	5	62905	Syncarpha Taos I, LLC	IPP	Syncarpha Taos	NM	63123	SYNTA	3.1	Solar Photovoltaic	SUN	PV
2020	5	62828	TWE Bowman Solar Project, LLC	IPP	TWE Bowman Solar Project	SC	62828	BOW	73.1	Solar Photovoltaic	SUN	PV
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	West Riverside Energy Center	WI	64020	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	West Riverside Energy Center	WI	64020	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	West Riverside Energy Center	WI	64020	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA
2020	6	61524	226HC 8me LLC	IPP	Holstein 1 Solar Farm	TX	61962	HSF01	200.0	Solar Photovoltaic	SUN	PV
2020	6	63663	28 Livermore Hill Road Solar, LLC	IPP	28 Livermore Hill Road Solar	MA	64014	7405	5.0	Solar Photovoltaic	SUN	PV
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC CSG Hybrid	MA	63011	CRONI	1.5	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project CSG Hybrid	MA	63472	BATT	1.3	Batteries	MWH	BA
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project CSG Hybrid	MA	63472	CYCZ	2.0	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project CSG Hybrid	MA	63435	BATT	1.3	Batteries	MWH	BA
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project CSG Hybrid	MA	63435	PRTDG	2.0	Solar Photovoltaic	SUN	PV
2020	6	63468	Alkali Solar, LLC	IPP	Alkali Solar, LLC	OR	63795	2	10.0	Solar Photovoltaic	SUN	PV
2020	6	60281	Altus Power America Management, LLC	IPP	FastSun 19 CSG	MN	63033	FS19	1.0	Solar Photovoltaic	SUN	PV
2020	6	60281	Altus Power America Management, LLC	IPP	FastSun 2 CSG	MN	62696	FS2	1.0	Solar Photovoltaic	SUN	PV
2020	6	63595	Blandford Sun, LLC	IPP	Sunpin Blandford	MA	63942	SUNBI	4.7	Solar Photovoltaic	SUN	PV

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	6	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	GT2	117.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	56769	Consolidated Edison Development Inc.	IPP	CED Crane Solar	TX	63519	CRN1	150.0	Solar Photovoltaic	SUN	PV
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV
2020	6	62800	DG Edison New Jersey LLC	IPP	DG Iron Mountain	NJ	62957	IRNMT	5.4	Solar Photovoltaic	SUN	PV
2020	6	5248	Dominion Energy Inc	Electric Utility	Myrtle Solar	VA	63746	MYSO	15.0	Solar Photovoltaic	SUN	PV
2020	6	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA
2020	6	58135	Ecos Energy LLC	IPP	Dickinson Solar (CT)	CT	63245	DCKN	2.0	Solar Photovoltaic	SUN	PV
2020	6	58135	Ecos Energy LLC	IPP	Sydney Solar	CT	63244	SYDN	2.0	Solar Photovoltaic	SUN	PV
2020	6	63593	Fort Rock Solar IV LLC	IPP	Fort Rock IV	OR	63926	FRIV	10.0	Solar Photovoltaic	SUN	PV
2020	6	7140	Georgia Power Co	Electric Utility	Moody Air Force Base Solar	GA	62377	1	49.5	Solar Photovoltaic	SUN	PV
2020	6	63292	Harmony Florida Solar LLC	IPP	Harmony Solar	FL	63582	HFS	74.5	Solar Photovoltaic	SUN	PV
2020	6	63470	Illinois PV Fulton 1, LLC	IPP	Illinois PV Fulton 1 CSG	IL	63790	FULT	2.0	Solar Photovoltaic	SUN	PV
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville Solar Park 4	IN	62776	SCRA4	2.3	Solar Photovoltaic	SUN	PV
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Gas City Solar Park	IN	62767	SGASC	2.5	Solar Photovoltaic	SUN	PV
2020	6	61219	Longroad Energy Services LLC	IPP	Prospero Solar	TX	62755	PROSP	300.0	Solar Photovoltaic	SUN	PV
2020	6	62915	Madison Energy Holdings LLC	IPP	Houston/Winona Community Solar One LLC	MN	63534	52827	1.0	Solar Photovoltaic	SUN	PV
2020	6	62915	Madison Energy Holdings LLC	IPP	Winona Community Solar One LLC	MN	63532	52837	1.0	Solar Photovoltaic	SUN	PV
2020	6	63529	Medusa NY 1, LLC	IPP	Medusa NY 1	NY	63854	8175C	2.0	Solar Photovoltaic	SUN	PV
2020	6	62864	Novel Haley Solar LLC	IPP	Novel Haley Solar CSG	MN	63005	HALY	1.0	Solar Photovoltaic	SUN	PV
2020	6	63589	POET Biorefing- Shelbyville	Industrial	POET Biorefining - Shelbyville	IN	63921	1	5.5	Natural Gas Steam Turbine	NG	ST
2020	6	62633	Plum Creek Wind, LLC	IPP	Plum Creek Wind Project (NE)	NE	62711	PLUM	230.0	Onshore Wind Turbine	WND	WT
2020	6	61678	RE Rambler LLC	IPP	Rambler	TX	62141	RMBLR	200.0	Solar Photovoltaic	SUN	PV
2020	6	56215	RWE Renewables Americas LLC	IPP	Peyton Creek Wind Farm LLC	TX	62417	WT1	220.0	Onshore Wind Turbine	WND	WT
2020	6	63460	Rock Garden, LLC	IPP	Rock Garden Solar, LLC	OR	63779	4	10.0	Solar Photovoltaic	SUN	PV
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82059	124.0	Onshore Wind Turbine	WND	WT
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82060	79.0	Onshore Wind Turbine	WND	WT
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82061	23.0	Onshore Wind Turbine	WND	WT
2020	6	60531	Standard Solar	IPP	USS Mayhew Solar LLC CSG	MN	63144	MAYHW	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Milkweed Solar LLC CSG	MN	63142	MLKWD	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Monarch Solar LLC CSG	MN	63147	MNRCH	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Sunrise Solar LLC CSG	MN	63141	SNRSE	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Westeros Solar LLC CSG	MN	63140	USSWS	1.0	Solar Photovoltaic	SUN	PV
2020	6	63573	SulusSolar17	IPP	SulusSolar17	OR	63908	SS17	3.1	Solar Photovoltaic	SUN	PV
2020	6	63290	Taylor Creek Solar LLC	IPP	Taylor Creek Solar	FL	63583	TCS	74.5	Solar Photovoltaic	SUN	PV
2020	6	63532	Walden NY 1, LLC	IPP	Walden NY 1	NY	63855	8175E	2.0	Solar Photovoltaic	SUN	PV
2020	6	63469	West Hines Solar I, LLC	IPP	West Hines Solar I, LLC	OR	63796	1	10.0	Solar Photovoltaic	SUN	PV
2020	7	61012	AES Distributed Energy	IPP	Allis Medina Solar LLC CSG	NY	63129	ALLIS	5.0	Solar Photovoltaic	SUN	PV
2020	7	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC CSG Hybrid	MA	63011	BESS	1.5	Batteries	MWH	BA
2020	7	61012	AES Distributed Energy	IPP	Partridge Hill Solar Hybrid	MA	63264	BATT	1.3	Batteries	MWH	BA
2020	7	62834	Caden Energix Pamplin LLC	IPP	Caden Energix Pamplin LLC	VA	63083	ENX04	15.7	Solar Photovoltaic	SUN	PV
2020	7	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	1	2.5	Petroleum Liquids	DFO	IC
2020	7	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	2	2.5	Petroleum Liquids	DFO	IC
2020	7	56769	Consolidated Edison Development Inc.	IPP	CED Champaign Solar LLC	IL	62681	CSIL	1.6	Solar Photovoltaic	SUN	PV
2020	7	61060	Cypress Creek Renewables	IPP	Midlands	SC	63839	1113	72.1	Solar Photovoltaic	SUN	PV
2020	7	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY
2020	7	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY
2020	7	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY
2020	7	62856	Forefront Power, LLC	IPP	DGS Wasco State Prison	CA	63418	1122	2.3	Solar Photovoltaic	SUN	PV
2020	7	63512	Gateway Energy Storage, LLC	IPP	Gateway Energy Storage System	CA	63834	GTWAY	250.0	Batteries	MWH	BA
2020	7	60719	Harvest Ridge Wind Farm	IPP	Harvest Ridge Wind Farm	IL	61161	GEN01	202.0	Onshore Wind Turbine	WND	WT
2020	7	62638	Helen Solar LLC	IPP	Helen Solar CSG	MN	62706	SC	4.0	Solar Photovoltaic	SUN	PV
2020	7	9234	Indiana Municipal Power Agency	Electric Utility	Tell City Solar Park	IN	62790	STEL2	3.2	Solar Photovoltaic	SUN	PV
2020	7	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	6	14.1	Natural Gas Fired Combined Cycle	NG	CT
2020	7	63001	MN CSG 2, LLC	IPP	Woodbury Solar	MN	63231	PV	3.0	Solar Photovoltaic	SUN	PV
2020	7	62915	Madison Energy Holdings LLC	IPP	Nicollet Community Solar One LLC	MN	63120	52828	1.0	Solar Photovoltaic	SUN	PV
2020	7	11479	Madison Gas & Electric Co	Electric Utility	Middleton Airport Solar	WI	62731	1	5.0	Solar Photovoltaic	SUN	PV
2020	7	63471	NES Olympos	IPP	Lane II Solar, LLC	NC	63837	PV1	4.9	Solar Photovoltaic	SUN	PV
2020	7	56990	NJR Clean Energy Ventures Corporation	IPP	Monroe Solar Farm, LLC	NJ	63451	MONR1	13.1	Solar Photovoltaic	SUN	PV
2020	7	61156	NMRD Data Center, LLC	IPP	Encino Solar Energy Center	NM	63860	ESEC	55.0	Solar Photovoltaic	SUN	PV
2020	7	62640	Northfield Solar LLC	IPP	Northfield Solar CSG	MN	62708	SC	5.0	Solar Photovoltaic	SUN	PV
2020	7	62788	Oberon Solar IA	IPP	Oberon IA	TX	62933	OBR1A	150.0	Solar Photovoltaic	SUN	PV
2020	7	62789	Oberon Solar IB	IPP	Oberon IB	TX	62932	OBR1B	30.0	Solar Photovoltaic	SUN	PV
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Chickasaw Nation Solar Farm	OK	63500	CVS1	5.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Choctaw Nation Solar Farm	OK	63499	CVS1	5.0	Solar Photovoltaic	SUN	PV
2020	7	63592	Riley Solar I LLC	IPP	Riley	OR	63925	RILEY	10.0	Solar Photovoltaic	SUN	PV
2020	7	61677	Sol Systems	IPP	Ruff Solar LLC	NC	62594	11625	5.0	Solar Photovoltaic	SUN	PV
2020	7	63624	SulusSolar35	IPP	SulusSolar35	OR	63969	SS35	3.0	Solar Photovoltaic	SUN	PV
2020	7	63459	Suntex Solar, LLC	IPP	Suntex Solar, LLC	OR	63778	3	10.0	Solar Photovoltaic	SUN	PV
2020	7	62637	Walcott Solar LLC	IPP	Walcott Solar CSG	MN	62707	SC	4.0	Solar Photovoltaic	SUN	PV
2020	7	62641	Warsaw Solar LLC	IPP	Warsaw Solar CSG	MN	62709	SC	2.0	Solar Photovoltaic	SUN	PV
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	63533	Westtown NY 2, LLC	IPP	Westtown NY 2	NY	63856	8175D	2.0	Solar Photovoltaic	SUN	PV
2020	8	60571	AEP Onsite Partners	IPP	Pine Hill	RI	63997	PHS01	5.0	Solar Photovoltaic	SUN	PV
2020	8	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project Hybrid CSG	MA	63470	BATT	2.9	Batteries	MWH	BA
2020	8	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project Hybrid CSG	MA	63470	MCDMT	4.5	Solar Photovoltaic	SUN	PV
2020	8	63019	AGA TAG Solar III LLC	IPP	AGA TAG Solar III LLC	SC	63243	SCAG	2.0	Solar Photovoltaic	SUN	PV
2020	8	60496	Adapture Renewables, Inc.	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV
2020	8	63380	Brenda Luhman Community Solar LLC	IPP	Brenda Luhman - CSG	MN	63682	BLCS	1.0	Solar Photovoltaic	SUN	PV
2020	8	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX02	20.0	Solar Photovoltaic	SUN	PV
2020	8	55600	Cadillac Renewable Energy LLC	IPP	Cadillac Renewable Energy	MI	54415	GEN2	38.0	Wood/Wood Waste Biomass	WDS	ST
2020	8	63072	Cerro Gordo Wind Farm	IPP	Cerro Gordo Wind Farm	IA	63287	CGWF	42.0	Onshore Wind Turbine	WND	WT
2020	8	61060	Cypress Creek Renewables	IPP	Wagyu	TX	63273	1215	120.0	Solar Photovoltaic	SUN	PV
2020	8	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville-Rock Hill Battery	NC	63064	ES1	8.8	Batteries	MWH	BA
2020	8	57202	E&E Enterprises LLC	IPP	Allendorf	IA	56215	ET	1.8	Onshore Wind Turbine	WND	WT
2020	8	62856	Forefront Power, LLC	IPP	Reed Road Solar	IL	63071	1822	1.3	Solar Photovoltaic	SUN	PV
2020	8	62856	Forefront Power, LLC	IPP	Square Barn Solar	IL	63070	1820	1.5	Solar Photovoltaic	SUN	PV
2020	8	61944	GSRP	IPP	Lafayette 2 - Internal Services Dept	CA	63527	GEN1	1.9	Solar Photovoltaic	SUN	PV
2020	8	61944	GSRP	IPP	Lafayette 2 - MLK Jr. Hospital (MLK)	CA	63623	GEN1	1.7	Solar Photovoltaic	SUN	PV
2020	8	63400	Hammer Community Solar LLC	IPP	Hammer Community (CSG)	MN	63684	HAMR	1.0	Solar Photovoltaic	SUN	PV
2020	8	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	6A	14.1	Natural Gas Fired Combined Cycle	NG	CA
2020	8	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	7	14.1	Natural Gas Fired Combined Cycle	NG	CT
2020	8	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	7A	14.1	Natural Gas Fired Combined Cycle	NG	CA
2020	8	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 3	PA	62991	PAWT3	20.0	Solar Photovoltaic	SUN	PV
2020	8	62915	Madison Energy Holdings LLC	IPP	ESIL-PFCHICAGO 3, LLC	IL	63888	PF3CH	1.4	Solar Photovoltaic	SUN	PV
2020	8	63471	NES Olympos	IPP	Benson Solar, LLC	NC	63836	PV1	4.9	Solar Photovoltaic	SUN	PV
2020	8	63471	NES Olympos	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV
2020	8	63471	NES Olympos	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV
2020	8	63632	North American Central - LLC	IPP	Central Generating	MI	63977	3	1.6	Landfill Gas	LFG	IC
2020	8	62847	Novel Pederson Solar LLC	IPP	Novel Pederson Solar CSG	MN	62983	PED	1.0	Solar Photovoltaic	SUN	PV
2020	8	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L1	1.5	Onshore Wind Turbine	WND	WT
2020	8	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L2	1.5	Onshore Wind Turbine	WND	WT
2020	8	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L3	1.5	Onshore Wind Turbine	WND	WT
2020	8	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T1	1.5	Onshore Wind Turbine	WND	WT
2020	8	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T2	1.5	Onshore Wind Turbine	WND	WT
2020	8	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T3	1.5	Onshore Wind Turbine	WND	WT
2020	8	15466	Public Service Co of Colorado	Electric Utility	Cheyenne Ridge Wind Farm	CO	62952	CRW01	488.0	Onshore Wind Turbine	WND	WT
2020	8	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR1	200.0	Solar Photovoltaic	SUN	PV
2020	8	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR2	200.0	Solar Photovoltaic	SUN	PV
2020	8	63366	Schueler Community Solar LLC	IPP	Schueler Community Solar	MN	63658	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	8	63365	Siems Community Solar LLC	IPP	Siems Solar Project CSG	MN	63657	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	8	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	BESS1	10.0	Batteries	MWH	BA
2020	8	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center Hybrid	CA	60698	BESS2	10.0	Batteries	MWH	BA
2020	9	63373	Bitter Ridge Wind Farm, LLC	IPP	Bitter Ridge Wind Farm, LLC	IN	63666	BIT	130.0	Onshore Wind Turbine	WND	WT
2020	9	63507	Bluebird Solar LLC	IPP	Bluebird Solar SC LLC	SC	63833	BB	3.0	Solar Photovoltaic	SUN	PV
2020	9	63487	Bronco Plains Wind, LLC	IPP	Bronco Plains Wind, LLC	CO	63803	WBOPL	299.0	Onshore Wind Turbine	WND	WT
2020	9	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX03	12.0	Solar Photovoltaic	SUN	PV
2020	9	63073	Chicot Solar, LLC	IPP	Chicot Solar	AR	63295	CHICO	100.0	Solar Photovoltaic	SUN	PV
2020	9	5248	Dominion Energy Inc	Electric Utility	Grasshopper Solar	VA	62813	GRHS	80.0	Solar Photovoltaic	SUN	PV
2020	9	63614	Easthampton Park Solar 1, LLC	IPP	Easthampton CSG	MA	63953	EASTP	2.5	Solar Photovoltaic	SUN	PV
2020	9	63615	Erving Poplar Mountain Solar 1, LLC	IPP	Erving CSG	MA	63950	ERVIN	1.0	Solar Photovoltaic	SUN	PV
2020	9	62856	Forefront Power, LLC	IPP	Harmony Road Solar	IL	63069	1823	1.9	Solar Photovoltaic	SUN	PV
2020	9	61873	GA Solar 4	IPP	Twiggs Solar	GA	61696	TWIGG	204.0	Solar Photovoltaic	SUN	PV
2020	9	60025	Greenbacker Renewable Energy Corporation	IPP	Mid-River PA, LLC (ABE4)	PA	64101	259	3.0	Solar Photovoltaic	SUN	PV
2020	9	9191	Idaho Power Co	Electric Utility	Shoshone Falls	ID	818	4	3.2	Conventional Hydroelectric	WAT	HY
2020	9	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville 5 Solar Park	IN	62793	SCRA5	9.8	Solar Photovoltaic	SUN	PV

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	9	9417	Interstate Power and Light Co	Electric Utility	Richland	IA	62080	1	130.9	Onshore Wind Turbine	WND	WT
2020	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 2	PA	62990	PAWT2	20.0	Solar Photovoltaic	SUN	PV
2020	9	62915	Madison Energy Holdings LLC	IPP	Sobania Community Solar LLC	MN	63791	SOB01	1.0	Solar Photovoltaic	SUN	PV
2020	9	63777	Mechanicsville Solar, LLC	IPP	Mechanicsville Solar	VA	64158	MECH	25.0	Solar Photovoltaic	SUN	PV
2020	9	63471	NES Olympos	IPP	Pilot Mountain Solar, LLC	NC	63835	PV1	4.9	Solar Photovoltaic	SUN	PV
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	ACCP NJ 1	NJ	63198	ACCP1	1.2	Solar Photovoltaic	SUN	PV
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	Galloway Landfill	NJ	63698	GALLO	2.3	Solar Photovoltaic	SUN	PV
2020	9	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY
2020	9	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC2	130.0	Onshore Wind Turbine	WND	WT
2020	9	61634	SR Terrell, LLC	IPP	SR Terrell	GA	62058	TERRL	74.0	Solar Photovoltaic	SUN	PV
2020	9	61677	Sol Systems	IPP	LA3 West Baton Rouge Solar Facility	LA	61646	LA3WB	50.0	Solar Photovoltaic	SUN	PV
2020	9	60531	Standard Solar	IPP	USS B&B Solar LLC CSG	MN	63216	BB	1.0	Solar Photovoltaic	SUN	PV
2020	9	60531	Standard Solar	IPP	USS Christoffer Solar LLC CSG	MN	63152	CHRST	1.0	Solar Photovoltaic	SUN	PV
2020	9	60531	Standard Solar	IPP	USS Cougar Solar LLC CSG	MN	63158	COUGR	1.0	Solar Photovoltaic	SUN	PV
2020	9	60531	Standard Solar	IPP	USS Flower Solar LLC CSG	MN	63159	FLOWR	1.0	Solar Photovoltaic	SUN	PV
2020	9	1615	Town of Berlin - (MD)	Electric Utility	Berlin	MD	6565	8A	2.0	Natural Gas Internal Combustion Engine	NG	IC
2020	9	62701	Vista Solar, Inc.	IPP	Hopkinton Phase 2	RI	63191	HTP2	2.5	Solar Photovoltaic	SUN	PV
2020	9	61981	Willow Creek Wind Power LLC	IPP	Willow Creek Wind Power LLC	SD	62431	1	103.5	Onshore Wind Turbine	WND	WT
2020	9	63689	Wonderful Renewable Energy, LLC.	Industrial	Wonderful Orchards - New Columbia	CA	64055	WOC	5.0	Solar Photovoltaic	SUN	PV
2020	10	60571	AEP Onsite Partners	IPP	Bloom-Altice Fuel Cell	NY	64143	BLA	2.0	Other Natural Gas	NG	FC
2020	10	60571	AEP Onsite Partners	IPP	Clyde Peaking Engine	OH	64157	CPG	9.4	Natural Gas Internal Combustion Engine	NG	IC
2020	10	61012	AES Distributed Energy	IPP	Finchville Solar, LLC Hybrid CSG	NY	62999	BESS	3.0	Batteries	MWH	BA
2020	10	61012	AES Distributed Energy	IPP	Finchville Solar, LLC Hybrid CSG	NY	62999	FINCH	5.0	Solar Photovoltaic	SUN	PV
2020	10	63596	Clinton Solar 4 LLC	IPP	Clinton Solar 4 LLC CSG	IL	63945	CLIN	2.0	Solar Photovoltaic	SUN	PV
2020	10	63260	Cobb Electric Membership Corporation	IPP	Solar BESS Hybrid	GA	63535	SOLAR	1.1	Solar Photovoltaic	SUN	PV
2020	10	63260	Cobb Electric Membership Corporation	IPP	Solar BESS Hybrid	GA	63535	TEST	1.0	Batteries	MWH	BA
2020	10	62803	Cove Mountain Solar 2 LLC	IPP	Cove Mountain Solar 2	UT	62470	GEN01	122.0	Solar Photovoltaic	SUN	PV
2020	10	58970	Ecoplexus, Inc	IPP	HWY 158 PV	NC	63566	HW158	9.0	Solar Photovoltaic	SUN	PV
2020	10	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV
2020	10	20160	Energy Northwest	Electric Utility	Horn Rapids Solar, Storage and Training	WA	64198	HRPV	3.2	Solar Photovoltaic	SUN	PV
2020	10	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	BESS1	0.2	Batteries	MWH	BA
2020	10	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	DG1	0.6	Petroleum Liquids	DFO	IC
2020	10	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	FC1	0.2	Other Natural Gas	NG	FC
2020	10	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	NGE1	0.2	Natural Gas Internal Combustion Engine	NG	IC
2020	10	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	NGE2	0.2	Natural Gas Internal Combustion Engine	NG	IC
2020	10	62759	Geronimo Energy	IPP	Aster Community Solar Garden, LLC	MN	63305	ASTER	1.0	Solar Photovoltaic	SUN	PV
2020	10	62759	Geronimo Energy	IPP	Geranium Solar, LLC	MN	63317	GERNM	1.0	Solar Photovoltaic	SUN	PV
2020	10	62759	Geronimo Energy	IPP	Hyacinth Solar, LLC	MN	63312	HYCIN	1.0	Solar Photovoltaic	SUN	PV
2020	10	62759	Geronimo Energy	IPP	Iris Solar, LLC (MN)	MN	63319	IRIS	1.0	Solar Photovoltaic	SUN	PV
2020	10	62759	Geronimo Energy	IPP	Kerria Solar, LLC	MN	63315	KERIA	1.0	Solar Photovoltaic	SUN	PV
2020	10	60025	Greenbacker Renewable Energy Corporation	IPP	Day Hill Solar, LLC	OR	63957	221	2.3	Solar Photovoltaic	SUN	PV
2020	10	63109	Hales Mills Solar, LLC	IPP	Hales Mills Solar, LLC	NY	63339	6609	3.6	Solar Photovoltaic	SUN	PV
2020	10	9234	Indiana Municipal Power Agency	Electric Utility	Centerville Solar Park	IN	62794	SCENT	1.1	Solar Photovoltaic	SUN	PV
2020	10	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Park 4	IN	62791	SRIC4	7.1	Solar Photovoltaic	SUN	PV
2020	10	9234	Indiana Municipal Power Agency	Electric Utility	Scottsburg Solar Park	IN	62766	SCCOT	7.1	Solar Photovoltaic	SUN	PV
2020	10	63818	Jack's Solar Garden	IPP	Jack's Solar Garden	CO	64200	JSG	1.0	Solar Photovoltaic	SUN	PV
2020	10	62915	Madison Energy Holdings LLC	IPP	Huneke CSG 1, LLC	MN	63820	HUN01	1.0	Solar Photovoltaic	SUN	PV
2020	10	62915	Madison Energy Holdings LLC	IPP	Stevens Community Solar LLC	MN	63794	ST001	1.0	Solar Photovoltaic	SUN	PV
2020	10	62915	Madison Energy Holdings LLC	IPP	Timonium Fairgrounds	MD	63904	FAIR1	1.9	Solar Photovoltaic	SUN	PV
2020	10	62726	Mountain Breeze Wind, LLC	IPP	Mountain Breeze Wind, LLC	CO	62840	MTBRZ	170.0	Onshore Wind Turbine	WND	WT
2020	10	63471	NES Olympos	IPP	Willard Solar	NC	60287	PV1	5.0	Solar Photovoltaic	SUN	PV
2020	10	62848	Novel Jewison Solar LLC	IPP	Novel Jewison Solar CSG	MN	62984	JEWI	1.0	Solar Photovoltaic	SUN	PV
2020	10	62850	Novel Kanewischer Solar LLC	IPP	Novel Kanewischer Solar CSG	MN	62986	KANE	1.0	Solar Photovoltaic	SUN	PV
2020	10	63757	OR Solar 2, LLC	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV
2020	10	61592	Pleinmont Solar 1 LLC	IPP	Pleinmont Solar 1	VA	62012	PLNM1	75.0	Solar Photovoltaic	SUN	PV
2020	10	63660	Route 76 Boone Solar 1, LLC	IPP	Route 76 Boone Solar 1	IL	64018	7724	2.0	Solar Photovoltaic	SUN	PV
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC
2020	10	63610	Severson HoldCo LLC	IPP	Severson Garden	MN	63934	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	10	61677	Sol Systems	IPP	ESA Buies Creek, LLC	NC	63732	11630	2.8	Solar Photovoltaic	SUN	PV
2020	10	61677	Sol Systems	IPP	Eros Solar, LLC	NC	63733	11631	5.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	10	60531	Standard Solar	IPP	Town of Burrillville Solar CSG	RI	62898	X0042	4.2	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS All In Solar LLC CSG	MN	63160	ALLIN	1.0	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS Buckaroo Solar LLC CSG	MN	63153	BUCKR	1.0	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS Horne North Solar LLC CSG	MN	63154	HORNN	1.0	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS Horne South Solar LLC CSG	MN	63155	HORNS	1.0	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS JJ Clay Solar LLC CSG	MN	63156	JJCLY	1.0	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS KVPV Solar LLC CSG	MN	63169	KVPV	1.0	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS Solar Sources LLC CSG	MN	63151	SOURC	1.0	Solar Photovoltaic	SUN	PV
2020	10	60531	Standard Solar	IPP	USS Verde Solar LLC CSG	MN	63157	VERDE	1.0	Solar Photovoltaic	SUN	PV
2020	10	63670	SulusSolar25	IPP	SulusSolar25	OR	64034	SS25	2.2	Solar Photovoltaic	SUN	PV
2020	10	63656	SulusSolar28	IPP	SulusSolar28	OR	64007	SS28	3.0	Solar Photovoltaic	SUN	PV
2020	10	61534	Techren Solar III LLC	IPP	Techren Solar III LLC	NV	61931	TECH3	25.0	Solar Photovoltaic	SUN	PV
2020	10	61535	Techren Solar IV LLC	IPP	Techren Solar IV LLC	NV	61932	TECH4	25.0	Solar Photovoltaic	SUN	PV
2020	10	62954	USS Bush Solar LLC	IPP	USS Bush Solar LLC CSG	MN	63166	BUSH	1.0	Solar Photovoltaic	SUN	PV
2020	10	61980	Valta Energy	IPP	Mauka FIT One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV
2020	10	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV
2020	10	20856	Wisconsin Power & Light Co	Electric Utility	Kossuth	IA	62103	1	152.2	Onshore Wind Turbine	WND	WT
2020	11	57416	Acciona Energy USA Global, LLC	IPP	Palmas Wind, LLC	TX	61773	PW	142.6	Onshore Wind Turbine	WND	WT
2020	11	56771	Black Hills Service Company LLC	Electric Utility	Corriedale Wind Energy	WY	63436	WTG	52.5	Onshore Wind Turbine	WND	WT
2020	11	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4A	68.7	Solar Photovoltaic	SUN	PV
2020	11	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4B	68.7	Solar Photovoltaic	SUN	PV
2020	11	62772	CA ODEVI LLC	IPP	Windsor Floating Solar	CA	62902	WUS15	1.5	Solar Photovoltaic	SUN	PV
2020	11	62802	Cove Mountain Solar LLC	IPP	Cove Mountain Solar	UT	62469	GEN01	58.0	Solar Photovoltaic	SUN	PV
2020	11	58468	Dominion Renewable Energy	Electric Utility	Spring Grove I	VA	61986	SGIS	97.9	Solar Photovoltaic	SUN	PV
2020	11	56201	Engie North America	IPP	King Plains Wind Project	OK	63104	WTG	248.2	Onshore Wind Turbine	WND	WT
2020	11	56201	Engie North America	IPP	Triple H Wind Project	SD	63103	WTG	250.2	Onshore Wind Turbine	WND	WT
2020	11	62856	Forefront Power, LLC	IPP	Mooseheart School Solar	IL	63073	1817	2.0	Solar Photovoltaic	SUN	PV
2020	11	63406	Freight Line Solar, LLC	IPP	Freight Line Solar, LLC	NC	63693	13503	2.0	Solar Photovoltaic	SUN	PV
2020	11	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN1	2.6	Solar Photovoltaic	SUN	PV
2020	11	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN2	3.9	Solar Photovoltaic	SUN	PV
2020	11	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN3	4.1	Solar Photovoltaic	SUN	PV
2020	11	60025	Greenbacker Renewable Energy Corporation	IPP	101 Carnegie Center Solar, LLC	NJ	64025	297	1.2	Solar Photovoltaic	SUN	PV
2020	11	60025	Greenbacker Renewable Energy Corporation	IPP	Renew Solar ABC Sacramento LLC	CA	62545	SACRA	1.7	Solar Photovoltaic	SUN	PV
2020	11	60025	Greenbacker Renewable Energy Corporation	IPP	Solar Hagerstown	MD	62912	137	7.5	Solar Photovoltaic	SUN	PV
2020	11	63671	GreenparkSolar	IPP	GreenparkSolar	OR	64033	GS	1.3	Solar Photovoltaic	SUN	PV
2020	11	63408	Holly Swamp Solar, LLC	IPP	Holly Swamp Solar, LLC	NC	63695	13502	2.0	Solar Photovoltaic	SUN	PV
2020	11	63137	Idemitsu Renewables	IPP	Mustang Two	CA	62015	M2BAR	50.0	Solar Photovoltaic	SUN	PV
2020	11	63137	Idemitsu Renewables	IPP	Mustang Two	CA	62015	M2WHI	100.0	Solar Photovoltaic	SUN	PV
2020	11	63609	Lyman Garden LLC	IPP	Lyman Garden	MN	63937	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	11	62915	Madison Energy Holdings LLC	IPP	Betcher CSG 1, LLC	MN	63819	BET01	1.0	Solar Photovoltaic	SUN	PV
2020	11	62915	Madison Energy Holdings LLC	IPP	ESIL-PFCHICAGO 2, LLC	IL	63889	PF2CH	1.0	Solar Photovoltaic	SUN	PV
2020	11	62915	Madison Energy Holdings LLC	IPP	Hinterland CSG, LLC	MN	63817	HIN01	1.0	Solar Photovoltaic	SUN	PV
2020	11	62915	Madison Energy Holdings LLC	IPP	Huneke CSG 2, LLC	MN	63821	HUN02	1.0	Solar Photovoltaic	SUN	PV
2020	11	63607	Marion Garden LLC	IPP	Marion Garden	MN	63935	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	11	63440	Milford Solar I (NES)	IPP	Milford Solar 1	UT	62812	MS1	99.0	Solar Photovoltaic	SUN	PV
2020	11	62866	Novel MNDot Solar LLC	IPP	Novel MNDot Solar CSG	MN	63007	MNDT	1.0	Solar Photovoltaic	SUN	PV
2020	11	62846	Novel Schmoll Farms Solar LLC	IPP	Novel Schmoll Farms Solar CSG	MN	62982	SCHM	1.0	Solar Photovoltaic	SUN	PV
2020	11	63473	Odom Solar, LLC	IPP	SR Odom	GA	63814	ODOM	20.0	Solar Photovoltaic	SUN	PV
2020	11	63405	PG Solar, LLC	IPP	PG Solar, LLC	NC	63692	13504	2.0	Solar Photovoltaic	SUN	PV
2020	11	63299	Ponderosa Wind, LLC	IPP	Ponderosa Wind Energy Center	OK	63590	PONDE	200.0	Onshore Wind Turbine	WND	WT
2020	11	63374	Sanford Airport Solar, LLC	IPP	Sanford Solar	ME	63667	SAS	49.4	Solar Photovoltaic	SUN	PV
2020	11	60038	Silicon Valley Clean Water	Electric CHP	Silicon Valley Clean Water	CA	60249	BES	1.0	Batteries	MWH	BA
2020	11	61677	Sol Systems	IPP	Buttercup Solar, LLC	NC	64002	11629	5.0	Solar Photovoltaic	SUN	PV
2020	11	61677	Sol Systems	IPP	Ventura Solar, LLC	NC	63734	11632	5.0	Solar Photovoltaic	SUN	PV
2020	11	17650	Southern Power Co	IPP	Skookumchuck Wind Facility	WA	63205	1	136.0	Onshore Wind Turbine	WND	WT
2020	11	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	202.0	Onshore Wind Turbine	WND	WT
2020	11	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH1	4.8	Solar Photovoltaic	SUN	PV
2020	11	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH2	4.7	Solar Photovoltaic	SUN	PV
2020	11	63623	Thor Solar 1 CEI, LLC	IPP	Danville Farm, LLC	VA	63965	1	12.0	Solar Photovoltaic	SUN	PV
2020	11	62956	USS Pheasant Solar LLC	IPP	USS Pheasant Solar LLC CSG	MN	63168	PHSNT	1.0	Solar Photovoltaic	SUN	PV
2020	11	63435	USS Solar Way LLC	IPP	USS Solar Way LLC CSG	MN	63743	SOLWY	1.0	Solar Photovoltaic	SUN	PV
2020	11	62668	Wheatridge Wind Holdings, LLC	IPP	Wheatridge Hybrid	OR	62745	WIND	200.0	Onshore Wind Turbine	WND	WT
2020	11	20860	Wisconsin Public Service Corp	Electric Utility	Two Creeks Solar	WI	63105	1	150.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2020	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2020	1	9155	Inland Empire Energy Ctr LLC	IPP	Inland Empire Energy Center	CA	55853	1	345.0	Natural Gas Fired Combined Cycle	NG	CS
2020	1	9155	Inland Empire Energy Ctr LLC	IPP	Inland Empire Energy Center	CA	55853	2	345.0	Natural Gas Fired Combined Cycle	NG	CS
2020	1	12949	Morgantown Energy Associates	Electric CHP	Morgantown Energy Facility	WV	10743	GEN1	50.0	Conventional Steam Coal	WC	ST
2020	1	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2020	1	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	ST
2020	1	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	3	971.0	Conventional Steam Coal	BIT	ST
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd I	CA	54681	EXIS	7.3	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd II	CA	54682	EXIS	5.4	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd V	CA	54685	EXIS	11.6	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Terra-Gen 251 Wind LLC	CA	52161	WGNS	18.4	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Victory Garden Phase IV LLC	CA	52160	WGNS	22.0	Onshore Wind Turbine	WND	WT
2020	2	56953	Bos Dairy, LLC	Industrial	Bos Dairy, LLC	IN	57625	BOS2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	2	55600	Cadillac Renewable Energy LLC	IPP	Cadillac Renewable Energy	MI	54415	GEN1	38.0	Wood/Wood Waste Biomass	WDS	ST
2020	2	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	6	24.0	Petroleum Liquids	DFO	GT
2020	2	63754	Innolith Snook LLC	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA
2020	2	57463	Kimberly-Clark Worldwide Inc	Industrial	Fullerton Mill CHP	CA	58083	GTG1	12.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	57463	Kimberly-Clark Worldwide Inc	Industrial	Fullerton Mill CHP	CA	58083	STG1	1.0	Natural Gas Fired Combined Cycle	NG	CA
2020	2	2770	Terra-Gen Operating Co-Wind	IPP	Altech III	CA	50485	GEN1	21.7	Onshore Wind Turbine	WND	WT
2020	2	2770	Terra-Gen Operating Co-Wind	IPP	Altech III	CA	50485	GEN2	3.4	Onshore Wind Turbine	WND	WT
2020	2	2770	Terra-Gen Operating Co-Wind	IPP	Dutch Wind Energy	CA	57301	DEC	8.0	Onshore Wind Turbine	WND	WT
2020	2	20541	Wheelabrator Environmental Systems	Electric CHP	Wheelabrator Frackville Energy	PA	50879	GEN1	42.5	Conventional Steam Coal	WC	ST
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT5	14.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT6	15.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT7	14.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT8	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	1	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	10	49.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	2	48.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	4	48.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	6	43.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	7	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	8	44.0	Petroleum Liquids	DFO	GT
2020	3	5860	Empire District Electric Co	Electric Utility	Asbury	MO	2076	1	198.0	Conventional Steam Coal	SUB	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN5	8.5	Natural Gas Steam Turbine	NG	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN6	8.5	Natural Gas Steam Turbine	NG	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN7	6.8	Natural Gas Steam Turbine	NG	ST
2020	3	56046	High Plains Wind Power LLC	IPP	High Plains	TX	56834	1	10.0	Onshore Wind Turbine	WND	WT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	CTG1	33.1	Natural Gas Fired Combined Cycle	NG	CT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	CTG2	33.6	Natural Gas Fired Combined Cycle	NG	CT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	STG	20.0	Natural Gas Fired Combined Cycle	NG	CA
2020	3	22129	Somerset Operating Co LLC	IPP	Somerset Operating Co LLC	NY	6082	1	685.9	Conventional Steam Coal	BIT	ST
2020	3	2770	Terra-Gen Operating Co-Wind	IPP	Windland	CA	50386	WING	15.3	Onshore Wind Turbine	WND	WT
2020	4	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,016.1	Nuclear	NUC	ST
2020	4	55970	JHP Pharmaceuticals LLC	Industrial	Par Sterile Products	MI	50318	38-1	2.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2020	5	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT1	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT2	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT3	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT4	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT5	1.4	Landfill Gas	LFG	IC
2020	5	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	1	137.0	Conventional Steam Coal	BIT	ST
2020	5	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	2	262.8	Conventional Steam Coal	BIT	ST
2020	5	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#1	1.0	Other Waste Biomass	OBG	IC
2020	5	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#2	1.0	Other Waste Biomass	OBG	IC
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	1	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	2	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	3	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	4	180.0	Conventional Steam Coal	BIT	ST
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENA	3.0	Natural Gas Fired Combustion Turbine	NG	GT

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENB	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENC	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GEND	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	9379	Inter-Power/AhlCon Partners, L.P.	IPP	Colver Green Energy	PA	10143	COLV	110.0	Conventional Steam Coal	WC	ST
2020	5	57172	SC Landfill Energy LLC	IPP	SC Landfill Energy LLC	NJ	57843	GEN1	1.8	Landfill Gas	LFG	IC
2020	5	57174	SX Landfill Energy LLC	IPP	SX Landfill Energy LLC	NJ	57846	UNIT1	1.5	Landfill Gas	LFG	IC
2020	5	57174	SX Landfill Energy LLC	IPP	SX Landfill Energy LLC	NJ	57846	UNIT2	1.5	Landfill Gas	LFG	IC
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	2	31.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	3	25.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lieberman	LA	1417	2	26.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lone Star	TX	3477	1	50.0	Natural Gas Steam Turbine	NG	ST
2020	5	17897	St Mary's Hospital	Commercial	Saint Marys Hospital Power Plant	MN	54262	6	2.7	Natural Gas Internal Combustion Engine	NG	IC
2020	6	58620	AEP Generation Resources Inc	IPP	Conesville	OH	2840	4	780.0	Conventional Steam Coal	BIT	ST
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 1	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 2	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 3	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 4	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 5	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 6	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 7	0.7	Landfill Gas	LFG	IC
2020	6	7483	City of Grand Haven - (MI)	Electric Utility	Grand Haven Diesel Plant	MI	1826	1	8.4	Natural Gas Internal Combustion Engine	NG	IC
2020	6	7483	City of Grand Haven - (MI)	Electric Utility	J B Sims	MI	1825	3	69.1	Conventional Steam Coal	BIT	ST
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT3	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT4	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Westport	MD	1560	GT5	115.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	A	30.0	Landfill Gas	LFG	ST
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	B	30.0	Landfill Gas	LFG	ST
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	6	5624	RED-Rochester, LLC	Industrial	RED-Rochester, LLC	NY	10025	22TG	12.5	Natural Gas Steam Turbine	NG	ST
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	21.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	45.1	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	33.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	27.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	57128	Bloom Energy	IPP	eBay - South Jordan	UT	59281	EBY00	6.0	Other Natural Gas	NG	FC
2020	7	57128	Bloom Energy	IPP	eBay - South Jordan	UT	59281	EBY03	3.8	Other Natural Gas	NG	FC
2020	7	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	10	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	20737	Willmar Municipal Utilities	Electric Utility	Willmar	MN	2022	3	16.8	Natural Gas Steam Turbine	NG	ST
2020	7	20737	Willmar Municipal Utilities	Electric Utility	Willmar	MN	2022	ST2	6.5	Natural Gas Steam Turbine	NG	ST
2020	8	12653	Lanyard Power Holdings, LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2020	8	12653	Lanyard Power Holdings, LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2020	8	12653	Lanyard Power Holdings, LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2020	8	55269	NextEra Energy Duane Arnold LLC	IPP	Duane Arnold Energy Center	IA	1060	1	601.4	Nuclear	NUC	ST
2020	9	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT4	12.9	Natural Gas Fired Combustion Turbine	NG	GT
2020	9	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT5	15.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	9	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT6	12.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	9	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	GT9	16.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	9	15474	Public Service Co of Oklahoma	Electric Utility	Oklaunion	TX	127	1	650.0	Conventional Steam Coal	SUB	ST
2020	10	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	10	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	10	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	1	78.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	2	238.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	3	238.0	Conventional Steam Coal	BIT	ST
2020	11	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG1	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	30151	Tri-State G & T Assn, Inc	Electric Utility	Escalante	NM	87	1	253.0	Conventional Steam Coal	SUB	ST

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	12	63691	2662 Freeport Solar 1, LLC	IPP	2662 Freeport Solar 1	IL	64058	FREE	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	63680	ACM Solar, LLC.	IPP	Apple Canyon Lake Solar	IL	64040	1	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2020	12	61012	AES Distributed Energy	IPP	Alicea Solar Project Hybrid	MA	63469	ALICA	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	61012	AES Distributed Energy	IPP	Alicea Solar Project Hybrid	MA	63469	BATT	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2020	12	61012	AES Distributed Energy	IPP	Amaterasu LLC	MA	64000	BESS	3.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.0
2020	12	61012	AES Distributed Energy	IPP	Amaterasu LLC	MA	64000	DRC	4.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.6
2020	12	61012	AES Distributed Energy	IPP	Annese Solar Project Hybrid	MA	63474	ANNES	4.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.6
2020	12	61012	AES Distributed Energy	IPP	Annese Solar Project Hybrid	MA	63474	BATT	3.2	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.2
2020	12	61012	AES Distributed Energy	IPP	Blackhorse Farm Solar, LLC	RI	63944	BHF	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2020	12	61012	AES Distributed Energy	IPP	East Brookfield Main Street Solar LLC	MA	63887	EBMSS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	61012	AES Distributed Energy	IPP	Greenwich Solar 1, LLC	NY	63411	RTE40	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	12	61012	AES Distributed Energy	IPP	Lane Ave Solar LLC	MA	63041	HANRA	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2020	12	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC Hybrid	NY	63415	BATT	1.6	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.6
2020	12	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC Hybrid	NY	63415	CENTR	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2020	12	61012	AES Distributed Energy	IPP	Partridge Hill Solar Hybrid	MA	63264	PART3	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	12	61012	AES Distributed Energy	IPP	Randall Solar Project Hybrid	MA	63475	BATT	3.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.3
2020	12	61012	AES Distributed Energy	IPP	Randall Solar Project Hybrid	MA	63475	RAND	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	12	61012	AES Distributed Energy	IPP	Ryan Road Solar LLC Hybrid	MA	63044	BESS	4.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	4.3
2020	12	61012	AES Distributed Energy	IPP	Ryan Road Solar LLC Hybrid	MA	63044	ORCHA	4.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.3
2020	12	61012	AES Distributed Energy	IPP	West A&B Solar Project Hybrid	MA	63473	BATT	1.8	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.8
2020	12	61012	AES Distributed Energy	IPP	West A&B Solar Project Hybrid	MA	63473	WEST	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	12	62747	Acorn I Energy Storage LLC	IPP	Acorn I Energy Storage LLC	CA	62874	ACOR1	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63794	Albemarle Beach Solar, LLC	IPP	Albemarle Beach Solar	NC	64169	BEACH	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	62627	Alchemy Renewable Energy	IPP	Twittys Creek Solar, LLC	VA	63077	VATC	13.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.8
2020	12	59496	Allete Clean Energy	IPP	Diamond Spring, LLC	OK	63327	46001	303.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	303.0
2020	12	61683	Amadeus Wind LLC	IPP	Amadeus Wind Farm	TX	62142	AM-TX	250.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	250.0
2020	12	61949	Assembly Solar I, LLC	IPP	Assembly Solar Project	MI	62422	ASP01	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2020	12	63419	Augusta Solar, LLC	IPP	Augusta Solar	SC	63720	PGR23	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	63021	Aurora Wind Project, LLC	IPP	Aurora Wind Project	ND	63258	AURWP	298.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.8
2020	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	LAJ1	165.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	165.0
2020	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	154.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	154.0
2020	12	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage	NY	63774	KISCB	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2020	12	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage	NY	63774	KRS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	62681	BT Cooke Solar, LLC	IPP	Rippey Solar	TX	62773	BTCOO	59.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	59.0
2020	12	63673	Ballenger Road Solar A	IPP	Ballenger Road Solar A	SC	63759	BALGR	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	59613	BayWa r.e. Solar Projects LLC	IPP	Fern Solar LLC	NC	62798	FERN	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	12	63208	Bighorn Solar, LLC	IPP	Bighorn Solar	OR	63467	PGR16	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2020	12	63620	Birch Creek Development, LLC	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	12	63834	Blue Goose Solar	IPP	Blue Goose Solar	IL	64228	BLGS	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63116	Bluebell Solar II, LLC	IPP	Bluebell Solar II	TX	63351	BBS2	115.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	115.0
2020	12	63654	BristolSolar	IPP	BristolSolar	OR	64009	BS	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2020	12	63295	Brooten CSG1 LLC	IPP	Brooten CSG1, LLC	MN	63593	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63296	Buffalo Lake CSG1 LLC	IPP	Buffalo Lake CSG1, LLC	MN	63594	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	199.4
2020	12	63407	Butler Solar, LLC	IPP	Butler Solar, LLC	OR	63694	13501	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2020	12	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar Hybrid	CO	63722	BA1	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar Hybrid	CO	63722	PV1	22.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	22.0
2020	12	63667	California PV Energy 3, LLC	IPP	San Diego - EMDF at San Diego	CA	64028	EMDF	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2020	12	63667	California PV Energy 3, LLC	IPP	San Diego - NCRC at Vista	CA	64049	NCRC	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2020	12	63627	Cardinal Solar LLC	IPP	Cardinal Solar LLC	SC	63973	CARD	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2020	12	63381	Carlson Community Solar	IPP	Carlson Community (CSG)	MN	63683	CRLSN	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	63713	CatanSolar	IPP	CatanSolar	TX	64079	CS	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2020	12	63581	Cedar Springs Transmission, LLC	IPP	Cedar Springs II	WY	63915	82634	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	63582	Cedar Springs Wind III, LLC	IPP	Cedar Springs III	WY	63916	82635	133.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	133.0
2020	12	63580	Cedar Springs Wind, LLC	IPP	Cedar Springs I	WY	63914	82633	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	63495	Centerfield Cooper Solar, LLC	IPP	Centerfield Cooper Solar, LLC	SC	63810	PGR24	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2020	12	62881	Chambers Road Solar LLC	IPP	Chambers Road Solar	NY	62860	263	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	12	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	80.0
2020	12	62705	Concho Bluff LLC	IPP	Greasewood	TX	62804	GREA1	255.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	255.0
2020	12	56769	Consolidated Edison Development Inc.	IPP	CED Beecher Sun Solar	IL	63823	BS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	56769	Consolidated Edison Development Inc.	IPP	CED Hilltop Solar	IL	63824	HS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	56769	Consolidated Edison Development Inc.	IPP	CED Northampton Solar LLC Hybrid	MA	62695	NSES	2.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.3
2020	12	56769	Consolidated Edison Development Inc.	IPP	CED Peoria Solar	IL	63656	PS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	56769	Consolidated Edison Development Inc.	IPP	CED Spring Creek Solar	IL	63948	CS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFW	4.6	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	4.6
2020	12	57365	Consolidated Edison Solutions Inc	IPP	CES Marbletown Solar	NY	63729	MT1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2020	12	63511	Constellation Solar Illinois 2, LLC	IPP	Charter Durabar at Woodstock	IL	63967	CDB1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	63511	Constellation Solar Illinois 2, LLC	IPP	Charter Durabar at Woodstock	IL	63967	CDB2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	63511	Constellation Solar Illinois 2, LLC	IPP	Conagra Foods at St. Elmo	IL	63830	CFS	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2020	12	63511	Constellation Solar Illinois 2, LLC	IPP	The GSI Group LLC at Assumption	IL	63968	GSI	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	12	4254	Consumers Energy Co	Electric Utility	Crescent Wind Park	MI	63686	GFWP	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	4254	Consumers Energy Co	Electric Utility	Gratiot Farms Wind Project	MI	63687	CWP	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	63064	Crowned Ridge Wind II LLC	IPP	Crowned Ridge Wind II Energy Center	SD	63269	CRW2	200.6	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	200.6
2020	12	61060	Cypress Creek Renewables	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	12	61610	Delaware River Solar, LLC	IPP	Big Tree Community Solar Farm	NY	62476	607	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	63731	Desert Harvest II LLC	IPP	Desert Harvest II LLC	CA	64103	DH002	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0
2020	12	63731	Desert Harvest II LLC	IPP	Desert Harvest II LLC	CA	64103	DH003	35.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	35.0
2020	12	61709	Desert Harvest, LLC	IPP	Desert Harvest, LLC	CA	62177	DH001	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2020	12	5248	Dominion Energy Inc	Electric Utility	Greensville Solar	VA	63745	GVSO	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2020	12	5248	Dominion Energy Inc	Electric Utility	Sadler Solar	VA	62814	SADL	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Gaston Solar Power Plant	NC	62669	PV1	25.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	25.0
2020	12	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Battery Energy Storage System	IN	64207	ES1	5.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	12	15470	Duke Energy Indiana, LLC	Electric Utility	Nabb Battery Energy Storage System	IN	62862	ES1	5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant Hybrid	CA	260	BAT1	300.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	300.0
2020	12	61785	EDP Renewables North America LLC	IPP	Crossing Trails Wind Farm	CO	62489	GEN1	104.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	104.0
2020	12	62852	ESA Hamlet NC LLC	IPP	ESA Hamlet NC , LLC	NC	63377	PGR10	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	12	62667	East Line Solar, LLC	IPP	East Line Solar	AZ	62899	EASTL	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2020	12	63662	Edwardsville Solar II, LLC	IPP	Edwardsville Solar II	IL	64016	6777	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	5860	Empire District Electric Co	Electric Utility	Kings Point Wind Energy Center	MO	62475	KPW1	149.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	149.4
2020	12	5860	Empire District Electric Co	Electric Utility	Neosho Ridge Wind Energy Center	KS	62481	NRW1	301.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	301.0
2020	12	5860	Empire District Electric Co	Electric Utility	North Fork Ridge Wind Energy Center	MO	62478	NFRW1	149.4	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	149.4
2020	12	20160	Energy Northwest	Electric Utility	Horn Rapids Solar, Storage and Training	WA	64198	HRBE	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2020	12	56201	Engie North America	IPP	Dakota Range III Wind Project	SD	63102	WTG	153.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	153.6
2020	12	56201	Engie North America	IPP	ENGIE Long Draw Solar LLC	TX	62845	SP1	225.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	225.0
2020	12	56201	Engie North America	IPP	Las Lomas Wind Project	TX	63101	WTG	201.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	201.6
2020	12	56201	Engie North America	IPP	Prairie Hill Wind Project	TX	63100	WTG	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2020	12	63081	Exus North America Management Partners LLC	IPP	Bearkat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WND	WT	(OT) Other	162.1
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	128.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	128.0
2020	12	6452	Florida Power & Light Co	Electric Utility	Egret Solar Center	FL	62925	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Lakeside Solar Center	FL	62922	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Magnolia Springs Solar Center	FL	62915	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Nassau Solar Center	FL	62914	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Trailside Solar Center	FL	62916	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Union Springs Solar Center	FL	62923	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	12	62856	Forefront Power, LLC	IPP	DGS Central California Womens Facility	CA	63419	1122	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	62856	Forefront Power, LLC	IPP	DGS Valley State Prison	CA	63947	579	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2020	12	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School Hybrid	CA	63422	1122	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	12	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School Hybrid	CA	63422	BA112	0.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.3
2020	12	62856	Forefront Power, LLC	IPP	IA - City of Ames - Airport Road	IA	64179	17000	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	62856	Forefront Power, LLC	IPP	MD - CS - Potomac Edison Co - GA29 TPE	MD	64180	19002	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	62720	Frontier Windpower II, LLC	IPP	Frontier Windpower II	OK	62837	FW2	351.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	351.8
2020	12	62759	Geronimo Energy	IPP	Allium Community Solar Garden, LLC	MN	63304	ALIUM	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Bellflower Solar, LLC	MN	63318	BELLF	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Bingham Solar, LLC	MI	63321	BINGH	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	12	62759	Geronimo Energy	IPP	Camellia Solar, LLC	MN	64001	CAMEL	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Coral Bells Solar, LLC	MN	63313	CORAL	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Honeysuckle Solar, LLC	MN	63309	HONEY	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Lantana Solar, LLC	MN	63311	LANTA	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Marigold Community Solar Garden, LLC	MN	63308	MGOLD	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Primrose Solar, LLC	MN	63314	PROSE	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62759	Geronimo Energy	IPP	Temperance Solar, LLC	MI	63322	TEMPR	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	12	62759	Geronimo Energy	IPP	Westport Community Solar, LLC	MN	63307	WESTP	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62696	Gichi Noodin Wind Farm, LLC	IPP	Fairbanks Wind Park	MI	62815	GNWF1	72.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	72.8
2020	12	63545	Golden Field Solar III, LLC	IPP	Golden Field Solar III, LLC	CA	63859	RCTR	192.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	192.0
2020	12	60025	Greenbacker Renewable Energy Corporation	IPP	Electric City Solar	MI	64097	232	15.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	15.0
2020	12	60025	Greenbacker Renewable Energy Corporation	IPP	Palmer Creek Solar, LLC	OR	63956	223	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2020	12	60025	Greenbacker Renewable Energy Corporation	IPP	Turquoise Nevada, LLC	NV	63906	142	60.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	60.0
2020	12	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2020	12	58596	Hanwha Q CELLS USA	IPP	Coniglio Solar	TX	62772	BTCON	123.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	123.6
2020	12	58596	Hanwha Q CELLS USA	IPP	Kellam Solar	TX	62774	BTKEL	59.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	59.0
2020	12	63629	Harrison Solar, LLC	IPP	Harrison Solar, LLC	NC	63975	HARS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	12	63628	Hayes Solar, LLC	IPP	Hayes Solar, LLC	NC	63974	HAYES	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2020	12	62879	Hickory Grove #1 LLC	IPP	Hickory Grove #1	NY	62831	25	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	62880	Hickory Grove #2	IPP	Hickory Grove #2	NY	62832	309	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2020	12	61594	Highlander Solar Station 1 LLC	IPP	Highlander Solar Station 1	VA	62014	HLND1	165.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	165.0
2020	12	63417	ISM Solar Cranston, LLC	IPP	ISM Solar Cranston	RI	63718	CR	3.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.4
2020	12	49893	Invenergy Services LLC	IPP	Blooming Grove Wind Energy Center	IL	63988	GEN1	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	12	49893	Invenergy Services LLC	IPP	Hardin Solar Energy LLC	OH	63029	GEN1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2020	12	63833	Iroquois Solar 1B LLC	IPP	Iroquois Solar 1B LLC	IL	64229	IROQ	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63128	Jordan Creek Wind Farm, LLC	IPP	Jordan Creek Wind Farm, LLC	IN	63389	JCW	398.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	398.6
2020	12	63244	KSI II Consolidated, LLC	IPP	County Road 16	NY	64126	ORNGE	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	63244	KSI II Consolidated, LLC	IPP	Frey Rd #1 Community Solar Farm	NY	62504	1159	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63244	KSI II Consolidated, LLC	IPP	Frey Rd #2 Community Solar Farm	NY	62521	1442	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2020	12	63244	KSI II Consolidated, LLC	IPP	Furnace Rd Community Solar Farm	NY	62508	1420	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2020	12	63289	Key Capture Energy	IPP	NY3 Battery	NY	63585	NY3	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	12	59195	Landfill Energy Systems	IPP	Zimmerman Energy	IN	59425	ZE#4	1.4	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2020	12	50123	Leeward Asset Management, LLC	IPP	Lone Tree Wind, LLC	IL	63251	LTW	79.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	79.0
2020	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elk Hill Solar 2	PA	63768	PAEH2	15.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.0
2020	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Impact Solar 1	TX	63222	TXIM1	198.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	198.5
2020	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Wildflower Solar 1	CA	62988	CAWF1	13.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.0
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	1	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	2	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	3	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	4	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	5	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	61219	Longroad Energy Services LLC	IPP	El Campo Wind	TX	62765	CAMPO	242.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	242.8
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 3	CA	62463	GEN01	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 4	CA	62464	GEN01	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 5	CA	62465	GEN01	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	40.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	40.0
2020	12	61219	Longroad Energy Services LLC	IPP	Weaver Wind	ME	63132	WEAVR	72.6	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	72.6
2020	12	63300	Lowry CSG2 LLC	IPP	Lowry CSG2, LLC	MN	63595	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63394	MSAP 13, LLC	IPP	MSAP 13	NY	63675	TROYL	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	62915	Madison Energy Holdings LLC	IPP	RJC CSG, LLC	MN	63816	RJC01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62915	Madison Energy Holdings LLC	IPP	Studenski Community Solar LLC	MN	63793	STU01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62915	Madison Energy Holdings LLC	IPP	Svihel Community Solar LLC	MN	63792	SVH01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	12	11479	Madison Gas & Electric Co	Electric Utility	Dane County Airport Solar	WI	64080	1	9.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	9.0
2020	12	63572	Marbury Point Solar LLC	IPP	DC Water Solar	DC	63917	8030A	4.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.5
2020	12	63753	Marlow Solar, LLC	IPP	Marlow Solar, LLC	IL	64122	MARL	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63732	Maverick Solar 4, LLC	IPP	Maverick Solar 4, LLC	CA	64104	MAV02	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	12	61710	Maverick Solar, LLC	IPP	Maverick Solar, LLC	CA	62178	MAV01	125.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	125.0
2020	12	63814	McDonough Solar 1, LLC	IPP	McDonough Solar 1, LLC	IL	64201	MC1B	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	63814	McDonough Solar 1, LLC	IPP	McDonough Solar 1, LLC	IL	64201	MCDH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	11	0.4	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	12	0.4	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	13	0.4	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	14	0.4	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.4
2020	12	63617	Mendota US Solar 1 LLC	IPP	Mendota	IL	63954	MENDS	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	12341	MidAmerican Energy Co	Electric Utility	Contrail Wind Farm	IA	63639	COWF	112.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	112.4
2020	12	12341	MidAmerican Energy Co	Electric Utility	Diamond Trail Wind Farm	IA	63641	DTWF	252.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	252.5
2020	12	12341	MidAmerican Energy Co	Electric Utility	Palo Alto Wind Farm	IA	63053	PAWF2	90.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	90.0
2020	12	12341	MidAmerican Energy Co	Electric Utility	Southern Hills Wind Farm	IA	63640	SHWF	254.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	254.1
2020	12	63655	MilfordSolar	IPP	MilfordSolar OR	OR	64008	MS	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2020	12	63206	Minke Solar, LLC	IPP	Minke Solar	OR	63465	PGR20	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2020	12	62916	Mohave County Wind Farm	IPP	Mohave County Wind Farm	AZ	63114	MCWF	350.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	350.0
2020	12	63204	Mohea Solar Energy Center, LLC	IPP	Mohea Solar Energy Center, LLC	SC	63463	PGR14	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	12	63729	Morgan Solar 4, LLC	IPP	Morgan Solar 4, LLC	IL	64100	MORG	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	27.6	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	27.6
2020	12	63185	Neighborhood Power Corp.	IPP	Dunn Road Solar	OR	63642	W9736	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2020	12	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CCHEG	1.5	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2020	12	63605	Nicollet Garden LLC	IPP	Nicollet Garden	MN	63938	CGS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	62869	Novel Benedix Solar LLC	IPP	Novel Benedix Solar CSG	MN	63010	BNDX	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	63014	Novel Debra Solar LLC	IPP	Novel Debra Solar LLC CSG	MN	63247	DEBRA	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	63294	Nutmeg Solar LLC	IPP	Nutmeg Solar	CT	63592	NUTMG	19.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.6
2020	12	63477	Oasis Alta, LLC	IPP	Oasis Alta	CA	63941	OA1	14.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	14.4
2020	12	62758	Orchard Windfarm, LLC	IPP	Orchard Windfarm 1, LLC	OR	62935	OCHW	10.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	10.0
2020	12	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Energy Center	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2020	12	63279	Outlaw Wind Project LLC	IPP	Outlaw Wind Project LLC	MO	63574	GEN1	298.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.6
2020	12	14354	PacifiCorp	Electric Utility	Ekola Flats	WY	62591	1	250.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.9
2020	12	63301	Paynesville CSG1 LLC	IPP	Paynesville CSG1, LLC	MN	63596	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63202	Pika Solar, LLC	IPP	Pika Solar	OR	63462	PGR17	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2020	12	63302	Plato CSG1 LLC	IPP	Plato CSG1, LLC	MN	63597	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	15248	Portland General Electric Co	IPP	Wheatridge 1	OR	64057	WND	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2020	12	63761	REG Juhl Glenville Wind, LLC	IPP	REG Juhl Glenville Wind, LLC	MN	64130	RJGW	2.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	2.5
2020	12	56215	RWE Renewables Americas LLC	IPP	Boiling Springs Wind Farm	OK	62871	BGSPS	148.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	148.4
2020	12	56215	RWE Renewables Americas LLC	IPP	Cranell Wind Farm LLC	TX	62416	WT1	220.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	220.0
2020	12	62778	Rattlesnake Flat, LLC	IPP	Rattlesnake Flat	WA	62936	RAT	144.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	144.0
2020	12	63634	Red Toad 315 Vinson Road, LLC	IPP	315 Vinson Road	NC	63979	VINSN	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	63633	Red Toad Powatan Phase 2 LLC	IPP	Powatan Road Solar	NC	64035	POWTN	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	61590	Richmond Spider Solar LLC	IPP	Richmond Spider Solar	VA	62011	RMDSS	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	12	63618	Ridge Farm Solar 1 LLC	IPP	Ridge Farm	IL	63952	RIDGE	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	62761	Rosewater Wind Farm LLC	IPP	Rosewater Wind Farm	IN	62891	ROSEW	102.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	102.0
2020	12	63820	SR Baxley, LLC	IPP	Baxley	GA	64211	BAXLY	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2020	12	63771	SR Rattlesnake, LLC	IPP	SR Rattlesnake	CO	64152	SNAKE	6.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.0
2020	12	61624	SR Snipesville	IPP	Snipesville	GA	62165	SNIPE	61.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	61.0
2020	12	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	2.7
2020	12	63303	Sacred Heart CSG1 LLC	IPP	Sacred Heart CSG1, LLC	MN	63598	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62113	Sage Draw Wind, LLC	IPP	Sage Draw Wind	TX	62620	SD	338.4	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	338.4
2020	12	63669	San Bernardino Fuel Cell, LLC	Commercial	SB Water Reclamation Fuel Cell	CA	64027	MB19	1.4	Other Waste Biomass	OBG	FC	(V) Under construction, more than 50 percent complete	1.4
2020	12	63119	Scotch Bonnet Solar, LLC	IPP	Scotch Bonnet Solar, LLC	NC	63345	PGR07	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2020	12	63676	Silveira Ranch Road Solar	IPP	Silveira Ranch Road Solar	CA	63762	SILVA	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	63676	Silveira Ranch Road Solar	IPP	Silveira Ranch Road Solar	CA	63762	SILVB	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	63676	Silveira Ranch Road Solar	IPP	Silveira Ranch Road Solar	CA	63762	SILVC	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	63608	Silver Lake Garden LLC	IPP	Silver Lake Garden	MN	63936	CGS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SKC	250.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	250.0
2020	12	63675	Soscol Ferry Solar	IPP	Soscol Ferry Solar	CA	63761	SSCLC	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	63675	Soscol Ferry Solar	IPP	Soscol Ferry Solar	CA	63761	SSCLD	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	12	17718	Southwestern Public Service Co	Electric Utility	Sagamore Wind	NM	63578	SWF01	522.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	522.0
2020	12	62844	Spring Hope Solar 3, LLC	IPP	Spring Hope Solar 3, LLC	NC	62997	PGR09	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2020	12	63304	Stewart CSG1 LLC	IPP	Stewart CSG1, LLC	MN	63599	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63688	SulusSolar29	IPP	SulusSolar29	OR	64048	SS29	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2020	12	63657	SulusSolar33	IPP	SulusSolar33	OR	64006	SS33	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2020	12	63106	Sutton Solar 2, LLC	IPP	Sutton Solar 2, LLC	MA	63336	6004	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAB	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAS	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	12	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOB	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOS	3.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.6
2020	12	62825	Syncarpha Northbridge II, LLC	IPP	Syncarpha Northbridge II Hybrid	MA	62978	SYN2B	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	12	62825	Syncarpha Northbridge II, LLC	IPP	Syncarpha Northbridge II Hybrid	MA	62978	SYN2S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	12	62044	TG High Prairie Wind, LLC	IPP	High Prairie Wind Farm	MO	62563	HPWF	400.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	400.0
2020	12	61954	Techren Solar V LLC	IPP	Techren Solar V	NV	62440	TECH5	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2020	12	63224	Tehachapi Plains Wind, LLC	IPP	Point Wind	CA	63482	PW1	64.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	64.5
2020	12	61890	Tenaska Nobles 2 Power Partners, LLC	IPP	Nobles 2 Wind Project	MN	62364	WT1	250.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	250.0
2020	12	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	3	0.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.8
2020	12	63623	Thor Solar 1 CEI, LLC	IPP	SSD Clackamas 4, LLC	OR	63962	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 1, LLC	OR	63964	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 3, LLC	OR	63958	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 5, LLC	OR	63959	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63623	Thor Solar 1 CEI, LLC	IPP	SSD Marion 6, LLC	OR	63960	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	63602	Titan Solar 1, LLC	IPP	Titan Solar 1 (CA)	CA	63932	TITN1	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	12	63433	USS Bluff Country Solar	IPP	USS Bluff Country Solar	MN	63741	USBCS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62955	USS Hancock Solar	IPP	USS Hancock Solar LLC CSG	MN	63167	HNCCK	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	62953	USS Reindeer Solar LLC	IPP	USS Reindeer Solar LLC CSG	MN	63165	RENDR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	12	63597	Vermilion Solar 1, LLC	IPP	Vermilion Solar 1, LLC	IL	63946	VERM	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	19876	Virginia Electric & Power Co	Electric Utility	Desper Solar	VA	62730	1	88.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	88.2
2020	12	61522	Viridity Energy Solutions, Inc.	IPP	Vallecito	CA	62801	ORN34	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2020	12	63129	Wapello Solar LLC	IPP	Wapello Solar LLC	IA	63378	WAPLO	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	12	20159	Washington Parish Engy Ctr 1 LLC	IPP	Washington Parish Energy Center	LA	55486	CTG01	182.2	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	199.8
2020	12	20159	Washington Parish Engy Ctr 1 LLC	IPP	Washington Parish Energy Center	LA	55486	CTG02	182.2	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	199.8
2020	12	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-10	2.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2020	12	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-9	2.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2020	12	62079	White Cloud Wind Project, LLC	IPP	White Cloud Wind Project, LLC	MO	62624	WTCWF	236.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	236.5
2020	12	63674	White Horse Solar A	IPP	White Horse Solar A	SC	63760	WHRSA	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	12	63692	Whiteside Solar 1, LLC	IPP	Whiteside Solar 1	IL	64059	WSIDE	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	12	62635	Wildcat Creek Wind Farm LLC	IPP	Wildcat Creek Wind Farm LLC	TX	62715	WCCWF	180.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	180.1
2020	12	63490	Williamsville Road LLC	IPP	Williamsville Hybrid	MA	63805	WBESS	3.3	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.3
2020	12	63490	Williamsville Road LLC	IPP	Williamsville Hybrid	MA	63805	WIL	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	1	61012	AES Distributed Energy	IPP	Wilbur Woods Solar LLC	MA	63048	DESMO	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	1	61012	AES Distributed Energy	IPP	ZPD-PT Solar Project 2017-021 LLC Hybrid	MA	64187	DRAES	0.7	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.7
2021	1	61012	AES Distributed Energy	IPP	ZPD-PT Solar Project 2017-021 LLC Hybrid	MA	64187	DRAPV	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	1	61012	AES Distributed Energy	IPP	ZPD-PT Solar Project 2017-023 LLC Hybrid	MA	64185	DRAES	1.8	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.8
2021	1	61012	AES Distributed Energy	IPP	ZPD-PT Solar Project 2017-023 LLC Hybrid	MA	64185	DRAPV	2.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2021	1	62160	AES ES Alamitos, LLC	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2021	1	60281	Altus Power America Management, LLC	IPP	FastSun 21	MN	63577	FS21	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	60281	Altus Power America Management, LLC	IPP	FastSun 4	MN	63576	FS4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	60281	Altus Power America Management, LLC	IPP	FastSun12	MN	63966	FS12	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	LAJ2	141.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	141.2
2021	1	62993	Aviator Wind, LLC	IPP	Aviator Wind	TX	63209	AVTOR	525.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	525.0
2021	1	2265	Bristol-Myers Squibb Co	IPP	Bristol Myers Squibb Lawrenceville	NJ	58947	TG102	5.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.4
2021	1	56769	Consolidated Edison Development Inc.	IPP	Water Strider Solar	VA	63549	WSS	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2021	1	63569	Cornillie 2 Community Solar LLC	IPP	Cornillie 2 Community (CSG)	MN	63899	CORN	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2021	1	63613	Cortland Solar 2 LLC	IPP	Cortland	IL	63949	CORT2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2021	1	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2021	1	5416	Duke Energy Carolinas, LLC	Electric Utility	Maiden Creek Solar Power Plant	NC	62668	PV1	69.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	69.3
2021	1	57170	EDF Renewable Asset Holdings, Inc.	IPP	Coyote Wind LLC	TX	63655	COY	242.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	242.5
2021	1	61420	ENGIE Storage Services NA LLC	Commercial	San Diego International Airport BESS	CA	62754	BA	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2021	1	5860	Empire District Electric Co	Electric Utility	Prosperity Solar Farm CSG	MO	64225	PROS1	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2021	1	61372	Enel Kansas, LLC	IPP	Cimarron Bend III	KS	64074	3	198.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	198.8
2021	1	56201	Engie North America	IPP	ANSON Solar Center, LLC	TX	64026	SF1	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2021	1	62856	Forefront Power, LLC	IPP	IL - SMHEC - Moraine Valley	IL	64181	18017	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2021	1	62856	Forefront Power, LLC	IPP	UC Santa Cruz Solar	CA	63091	246	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2021	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	40.0
2021	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	102.0
2021	1	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	102.0
2021	1	60025	Greenbacker Renewable Energy Corporation	IPP	Alamosa Solar South CSG	CO	64266	264	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2021	1	60025	Greenbacker Renewable Energy Corporation	IPP	Forrest City- Eldridge Road	AR	64262	453	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	60025	Greenbacker Renewable Energy Corporation	IPP	Forrest City- Prison Site	AR	64261	361	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	60025	Greenbacker Renewable Energy Corporation	IPP	Hot Springs 2020	AR	64263	364	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	60025	Greenbacker Renewable Energy Corporation	IPP	Las Virgenes	CA	64264	298	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2021	1	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2021	1	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	5.0
2021	1	63694	Hecate Energy West Newberry, LLC	IPP	Hecate Energy West Newberry, LLC	SC	64061	HEWNB	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2021	1	62763	Hecate Grid, LLC	IPP	Hecate Energy Johanna Facility	CA	62889	HEGJF	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2021	1	62763	Hecate Grid, LLC	IPP	Hecate Energy Johanna Facility	CA	62889	HJFII	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2021	1	62134	Hunter Solar LLC	IPP	Hunter Solar LLC	UT	62656	HUSOL	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2021	1	63137	Idemitsu Renewables	IPP	Central 40	CA	63940	CEN40	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2021	1	63137	Idemitsu Renewables	IPP	Pioneer Solar (CO), LLC	CO	61991	PI-QF	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2021	1	9234	Indiana Municipal Power Agency	Electric Utility	Columbia City Solar Park	IN	62769	SCOLU	4.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2021	1	49893	Invenergy Services LLC	IPP	Millican Solar Energy LLC	OR	63050	GEN1	71.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.4
2021	1	49893	Invenergy Services LLC	IPP	Prineville Solar Energy LLC	OR	63049	GEN1	46.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	46.2
2021	1	49893	Invenergy Services LLC	IPP	Thunderhead Wind Energy LLC	NE	62956	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2021	1	59685	JPMorgan Chase Bank	Commercial	South Campus Solar	DE	59922	G1789	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2021	1	63644	Kish Solar, LLC	IPP	Kish	IL	63990	KISH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2021	1	63431	Las Majadas Wind Farm, LLC	IPP	Las Majadas Wind Farm	TX	63739	LMAJ	272.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	272.6
2021	1	63616	Lena Solar 1 LLC	IPP	Lena	IL	63951	LENA	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN7	9.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN8	9.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN9	9.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.0
2021	1	63185	Neighborhood Power Corp.	IPP	Mt Hope Solar	OR	63663	W0053	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2021	1	63185	Neighborhood Power Corp.	IPP	Williams Acres Solar	OR	63664	W0055	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2021	1	13781	Northern States Power Co - Minnesota	Electric Utility	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2021	1	63017	Novel Wayne Solar LLC	IPP	Novel Wayne Solar LLC CSG	MN	63249	WAYNE	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	1	63683	Olney Solar II, LLC	IPP	Olney Solar II	IL	64043	6778	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2021	1	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES01	1.3	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.3
2021	1	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES02	1.3	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.3
2021	1	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	245.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	349.0
2021	1	63859	Pickford Solar	IPP	Pickford Solar	MI	64251	PICK1	6.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.9
2021	1	61298	Pine Gate Renewables	IPP	Harts Mill Solar, LLC	NC	64144	HMS01	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2021	1	61298	Pine Gate Renewables	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-1	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-2	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-3	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-4	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-5	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-6	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2021	1	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	222.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	222.0
2021	1	56215	RWE Renewables Americas LLC	IPP	Scioto Ridge Wind Farm	OH	58780	1	249.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	249.8
2021	1	63141	Rancho Seco Solar II, LLC	IPP	Rancho Seco Solar II, LLC	CA	63387	RSS2	160.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	160.0
2021	1	63210	Saint Solar LLC	IPP	Saint Solar	AZ	63476	SAINT	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2021	1	63522	Santa Ana Storage 1	IPP	Johanna Energy Center, LLC	CA	63843	SASP1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2021	1	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2021	1	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2021	1	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1 Hybrid	MA	63541	SCRV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	1	63243	Solar Carver 3, LLC	IPP	Solar Carver 3 Hybrid	MA	63506	SCRV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2021	1	63664	Somonauk Road Solar 1, LLC	IPP	Somonauk Road Solar 1	IL	64013	6344	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFCT1	344.4	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	344.4
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFCT2	344.4	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	344.4
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFST1	260.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	260.8
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFST2	260.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	260.8
2021	1	60531	Standard Solar	IPP	USS Chariot Solar LLC	MN	63171	CHROT	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	63659	SulusSolar22	IPP	SulusSolar22	OR	64022	SS22	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2021	1	62814	Syncarpha Leicester, LLC	IPP	Syncarpha Leicester Hybrid	MA	62972	SYLEB	1.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.9
2021	1	62814	Syncarpha Leicester, LLC	IPP	Syncarpha Leicester Hybrid	MA	62972	SYLES	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	1	18454	Tampa Electric Co	Electric Utility	Durrance	FL	63495	1	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2021	1	63623	Thor Solar 1 CEI, LLC	IPP	SSD Clackamas 1, LLC	OR	63961	1	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2021	1	63623	Thor Solar 1 CEI, LLC	IPP	SSD Clackamas 7, LLC	OR	63963	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2021	1	63436	USS Hubers Solar LLC	IPP	USS Hubers Solar LLC	MN	63744	HUBER	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	62958	USS Kass Solar LLC	IPP	USS Kass Solar LLC	MN	63170	KASS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(TS) Construction complete, but not yet in commercial operation	12.0
2021	1	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2021	1	62748	Wildcat I Energy Storage LLC	IPP	Wildcat I Energy Storage LLC	CA	62875	WILD1	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2021	1	63689	Wonderful Renewable Energy, LLC.	Industrial	Wonderful Orchards - Belridge	CA	64221	WOC	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	1	63689	Wonderful Renewable Energy, LLC.	Industrial	Wonderful Orchards - Westside	CA	64220	WOC	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	2	62685	10 Briggs Solar NG, LLC	IPP	10 Briggs Solar NG, LLC (East)	RI	62781	02818	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2021	2	63186	1001 Ebenezer Church Solar, LLC	IPP	1001 Ebenezer Church Solar	NC	63444	1001	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	2	63193	1045 Tomlin Mill Solar, LLC	IPP	1045 Tomlin Mill Solar	NC	63448	1045	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2021	2	62006	7X Energy, Inc.	IPP	Taygete Energy Project LLC	TX	62483	PV1	255.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	255.0
2021	2	61012	AES Distributed Energy	IPP	BWC Lake Lashaway, LLC Hybrid	MA	64182	DRAES	3.7	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.7
2021	2	61012	AES Distributed Energy	IPP	BWC Lake Lashaway, LLC Hybrid	MA	64182	DRAPV	4.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.2
2021	2	61012	AES Distributed Energy	IPP	BWC Muddy Brook, LLC Hybrid	MA	64170	MBES	0.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.9
2021	2	61012	AES Distributed Energy	IPP	BWC Muddy Brook, LLC Hybrid	MA	64170	MBPV	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	2	61012	AES Distributed Energy	IPP	BWC Stony Brook, LLC Hybrid	MA	64140	BESS	0.7	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.7
2021	2	61012	AES Distributed Energy	IPP	BWC Stony Brook, LLC Hybrid	MA	64140	BSBPV	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2021	2	59050	Algonquin Power Co	IPP	Maverick Creek Wind	TX	62853	MVRCK	524.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	524.4
2021	2	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLST2	115.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	115.0
2021	2	63625	CCUA Solar, LLC	IPP	CCUA Solar	NJ	63971	CCUA	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R1	18.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R2	18.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R3	18.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2021	2	1515	City of Bellevue - (IA)	Electric Utility	Bellevue	IA	1126	1A	1.7	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.8
2021	2	5109	DTE Electric Company	Electric Utility	Isabella Wind Park	MI	63601	1	383.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	383.5
2021	2	6455	Duke Energy Florida, LLC	Electric Utility	Twin Rivers Solar Power Plant	FL	63518	PV1	74.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.9
2021	2	61785	EDP Renewables North America LLC	IPP	Headwaters Wind Farm II LLC	IN	62592	HWII	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2021	2	63651	Energix Hollyfield, LLC	IPP	Energix Hollyfield, LLC	VA	64010	ENX06	13.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	13.0
2021	2	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	250.0
2021	2	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	250.0
2021	2	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	500.0
2021	2	63631	Four Brothers 2, LLC	IPP	Hertford Solar Power, LLC	NC	63024	KEH	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2021	2	63404	Hunker Solar River, LLC	IPP	Hunker Solar River, LLC	PA	63691	13502	3.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2021	2	49893	Invenergy Services LLC	IPP	Deuel Harvest Wind Energy LLC	SD	62943	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2021	2	63244	KSI II Consolidated, LLC	IPP	County Route 11 Community Solar Farm	NY	62507	1419	4.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.1
2021	2	62897	MSB Investors, LLC	Electric CHP	Tajiguas Resource Recovery Project	CA	63094	SBAD1	1.1	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.1
2021	2	62897	MSB Investors, LLC	Electric CHP	Tajiguas Resource Recovery Project	CA	63094	SBAD2	1.1	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.1
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	GT200	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	21.7
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	GT300	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	21.7
2021	2	60685	Novel Energy Solutions	IPP	Hayfield Solar I LLC	MN	63724	HAYF1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	2	60685	Novel Energy Solutions	IPP	Hayfield Solar III LLC	MN	63725	HAYF3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	2	62868	Novel Peter Solar LLC	IPP	Novel Peter Solar CSG	MN	63009	PETR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	2	63643	Peterman Solar II, LLC	IPP	Peterman II	IL	63989	PETE	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-1	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-2	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-3	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-4	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-5	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-6	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-7	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-8	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-9	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG10	44.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	2	56215	RWE Renewables Americas LLC	IPP	Raymond Wind Farm, LLC	TX	62909	ERAYM	200.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.2
2021	2	61727	Reloj del Sol Wind Farm LLC	IPP	Reloj del Sol Wind Farm	TX	62207	RELOJ	209.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	209.4
2021	2	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW24	33.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.8
2021	2	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW45	216.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	216.0
2021	2	62973	USS Dot Com Solar LLC	IPP	USS Dot Com Solar LLC CSG	MN	63215	DOTCM	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	2	63434	USS Viceroy Solar LLC	IPP	USS Viceroy Solar LLC	MN	63742	USVIC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	2	63604	Union Garden LLC	IPP	Union Garden	MN	63939	CGS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	3	63192	1008 Matthews Solar, LLC	IPP	1008 Matthews Solar	NC	63447	1008	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	3	63190	1009 Yadkin Solar, LLC	IPP	1009 Yadkin Solar	NC	63445	1009	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2021	3	63191	1073 Onslow Solar, LLC	IPP	1073 Onslow Solar	NC	63446	1073	4.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.7
2021	3	61012	AES Distributed Energy	IPP	ZPD-PT Solar Project 2017-038 Hybrid LLC	MA	64147	DRAES	3.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.4
2021	3	61012	AES Distributed Energy	IPP	ZPD-PT Solar Project 2017-038 Hybrid LLC	MA	64147	DRAPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2021	3	63824	Acme Solar, LLC	IPP	Acme Solar, LLC	NC	64238	018	6.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.6
2021	3	60496	Adapture Renewables, Inc.	IPP	Pawcatuck Solar Center, LLC	CT	62318	PAWCA	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2021	3	62627	Alchemy Renewable Energy	IPP	Logansport Solar	IN	63861	INLP	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2021	3	63760	Amp Energy	IPP	East Brookfield Adams Road Solar LLC	MA	64129	EBARB	3.1	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.1
2021	3	63760	Amp Energy	IPP	East Brookfield Adams Road Solar LLC	MA	64129	EBARS	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2021	3	63760	Amp Energy	IPP	Ware Palmer Road Solar LLC	MA	64128	WPRB	1.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.9
2021	3	63760	Amp Energy	IPP	Ware Palmer Road Solar LLC	MA	64128	WPRS	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2021	3	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	79.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	79.7
2021	3	63842	BCSB, LLC	IPP	Burt County Solar Hybrid	NE	64222	1	0.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.7
2021	3	63842	BCSB, LLC	IPP	Burt County Solar Hybrid	NE	64222	2	0.7	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.7
2021	3	63842	BCSB, LLC	IPP	Dodge County Solar Hybrid	NE	64223	1	0.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.7
2021	3	63842	BCSB, LLC	IPP	Dodge County Solar Hybrid	NE	64223	2	0.7	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.7
2021	3	63568	BD Solar 1 LLC	IPP	Milo PV - BD Solar 1 LLC	ME	63894	MILPV	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2021	3	63567	BD Solar Augusta LLC	IPP	Augusta PV - BD Solar Augusta LLC	ME	63895	AUGPV	7.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.2
2021	3	63566	BD Solar Fairfield LLC	IPP	Fairfield PV - BD Solar Fairfield LLC	ME	63896	FAIPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	3	63565	BD Solar Oxford LLC	IPP	Oxford PV - BD Solar Oxford LLC	ME	63897	OXFPV	9.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.2
2021	3	62872	Carolina Lily Solar, LLC	IPP	Carolina Lily Solar	NC	63016	1096	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	3	61610	Delaware River Solar, LLC	IPP	Route 19 #1 Community Solar Farm	NY	62500	1258	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	3	61610	Delaware River Solar, LLC	IPP	Route 19 #2 Community Solar Farm	NY	62502	1415	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	3	61610	Delaware River Solar, LLC	IPP	Route 22 Community Solar Farm	NY	62524	1444	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2021	3	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #1 Community Solar Farm	NY	62496	1268	3.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.8
2021	3	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #2 Community Solar Farm	NY	62498	1413	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	3	6455	Duke Energy Florida, LLC	Electric Utility	Santa Fe Solar Power Plant	FL	63517	PV1	74.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.9
2021	3	58135	Ecos Energy LLC	IPP	Blair Solar	CT	64217	BLAIR	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	3	58135	Ecos Energy LLC	IPP	Few Solar	CT	64219	FEW	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	3	58135	Ecos Energy LLC	IPP	Madison Solar	CT	64218	MADIS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	3	59497	Eversource	IPP	Outer Cape Community Battery	MA	62604	OCESS	25.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	25.0
2021	3	63441	Fogarty Solar LLC	IPP	Fogarty	NY	63747	GRA	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2021	3	7140	Georgia Power Co	Electric Utility	Kings Bay Solar Facility	GA	59864	BESS	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2021	3	7140	Georgia Power Co	Electric Utility	Robins Air Force Base Solar	GA	61648	1	139.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	139.0
2021	3	63108	Granby Solar, LLC	IPP	Granby Solar, LLC	MA	63338	4787	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2021	3	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO	449.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	449.5
2021	3	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO2	50.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	50.0
2021	3	61697	Hillcrest Solar I, LLC	IPP	Hillcrest Solar	OH	62200	HILLC	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2021	3	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
2021	3	9324	Indiana Michigan Power Co	Electric Utility	South Bend Solar	IN	63801	1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2021	3	49893	Invenergy Services LLC	IPP	Sundance Wind Project, LLC	OK	63489	GEN1	199.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	199.0
2021	3	62915	Madison Energy Holdings LLC	IPP	T Luhman CSG	MN	64056	TLU01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN6	1.2	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	1.2
2021	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN7	1.2	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	1.2
2021	3	63645	Nostrand Solar, LLC	IPP	Nostrand	IL	63991	NOS	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2021	3	60685	Novel Energy Solutions	IPP	Pipestone City Solar LLC	MN	63726	PSCTY	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2021	3	63774	Novel Novak Solar LLC	IPP	Novel Novak Solar LLC	MN	64153	NOVAK	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	3	62867	Novel Winegar Partnership Solar	IPP	Novel Winegar Partnership Solar CSG	MN	63008	WINE	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2021	3	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2021	3	56215	RWE Renewables Americas LLC	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	126.0
2021	3	62871	Ray Wilson Solar, LLC	IPP	Ray Wilson Solar	NC	63017	1090	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	3	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2021	3	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2021	3	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2021	3	62146	Sigurd Solar LLC	IPP	Sigurd Solar LLC	UT	62666	SGSOL	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2021	3	63424	Silverstrand Grid, LLC	IPP	Silverstrand Grid Energy Storage System	CA	63735	SLV01	11.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	11.0
2021	3	63823	Solar Lee, LLC	IPP	Solar Lee, LLC	NC	64237	002	6.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.7
2021	3	60531	Standard Solar	IPP	USS Steamboat Solar LLC CSG	MN	63221	STMBT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	3	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2021	3	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	3	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2021	3	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	3	62701	Vista Solar, Inc.	IPP	Bio-Rad	CA	63189	BIORD	2.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2021	3	63646	Vulcan Solar, LLC	IPP	Vulcan	IL	63992	VUL	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2021	3	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	18.2
2021	3	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	18.2
2021	4	61012	AES Distributed Energy	IPP	AES Kekaha Solar, LLC Hybrid	HI	63280	BESS	14.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	14.0
2021	4	61012	AES Distributed Energy	IPP	ZPD-PT Solar Project 2017-044 LLC	MA	64184	DRAPV	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	4	63004	Abundant Solar Power Inc.	IPP	Deiter-STEU	NY	63226	2078	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2021	4	63004	Abundant Solar Power Inc.	IPP	Gibson-STEU	NY	63227	8675	11.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	11.5
2021	4	63004	Abundant Solar Power Inc.	IPP	Wheaton-STEU	NY	63228	11410	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	4	57416	Acciona Energy USA Global, LLC	IPP	La Chalupa, LLC	TX	63624	LC	198.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	198.5
2021	4	62119	Antelope Expansion 3A, LLC	IPP	Antelope Expansion 3A	CA	62673	ANX3A	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2021	4	62118	Antelope Expansion 3B, LLC	IPP	Antelope Expansion 3B	CA	62674	ANX3B	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	4	63620	Birch Creek Development, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	4	61978	Convergent Energy and Power LP	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2021	4	61978	Convergent Energy and Power LP	IPP	Orange County Energy Storage 2	CA	62497	OCES2	9.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	4	61978	Convergent Energy and Power LP	IPP	Orange County Energy Storage 3	CA	62499	OCES3	6.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	6.0
2021	4	63237	Emerald Hills Holding I, LLC	IPP	Depot Solar Center, LLC	VA	61691	DEPOT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2021	4	63652	Energix Buckingham, LLC	IPP	Energix Buckingham, LLC	VA	64015	ENX05	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2021	4	60952	Energix Mt. Jackson, LLC.	IPP	Mt. Jackson Solar	VA	61318	SOLAR	15.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.7
2021	4	6452	Florida Power & Light Co	Electric Utility	Discovery Solar Center	FL	63109	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Orange Blossom Solar Center	FL	62919	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Palm Bay Solar	FL	62921	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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)
2021	4	6452	Florida Power & Light Co	Electric Utility	Pelican Solar Center	FL	62924	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Rodeo Solar Center	FL	62917	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Sabal Palm Solar Center	FL	63110	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	9234	Indiana Municipal Power Agency	Electric Utility	Peru 2	IN	64246	PERU2	9.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.5
2021	4	63244	KSI II Consolidated, LLC	IPP	Townsend Road	NY	64127	PODNQ	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2021	4	62721	Maryneal Windpower, LLC	IPP	Maryneal Windpower	TX	62836	MNW	182.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	182.4
2021	4	63775	Novel Shelly Solar LLC	IPP	Novel Shelly Solar LLC	MN	64154	SHLLY	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	4	56215	RWE Renewables Americas LLC	IPP	West Raymond Wind Farm LLC	TX	62855	WRAYM	239.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	239.8
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Troy Solar	IN	63929	TROY1	50.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.4
2021	4	62919	TPE King Solar Holdings1 LLC	IPP	King CSG	RI	63135	KING1	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2021	4	62919	TPE King Solar Holdings1 LLC	IPP	King CSG	RI	63135	KING2	7.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.8
2021	4	63326	USS Solar Brick	IPP	USS Solar Brick	IL	63618	USBRK	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	4	63550	Ventura Energy Storage, LLC	IPP	Saticoy	CA	63891	SATCY	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project Hybrid	TX	63255	2WPBA	40.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	40.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project Hybrid	TX	63255	2WPSO	420.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	420.0
2021	5	61012	AES Distributed Energy	IPP	W. Orange Rd Solar LLC	MA	63047	HEYES	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2021	5	59474	BQ Energy LLC	IPP	West Valley East	NY	62738	WVE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	5	59474	BQ Energy LLC	IPP	West Valley West	NY	62737	WVW	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	5	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-1H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	1.5
2021	5	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-2H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	1.5
2021	5	62805	Bluestone Farm Solar, LLC	IPP	Bluestone Solar	VA	62950	BLUE1	49.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.9
2021	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC Hybrid	CA	60094	BLST3	115.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	115.0
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM45	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM46	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM47	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM48	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM49	2.8	Other Natural Gas	NG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	5	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8.2	37.5	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	45.5
2021	5	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	5	61942	Griffin Trail Wind, LLC	IPP	Griffin Trail Wind	TX	62411	GTWND	225.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	225.6
2021	5	62064	Hill Top Energy Center, LLC	IPP	Hill Top Energy Center, LLC	PA	62565	GEN1	619.1	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	664.7
2021	5	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	5	9234	Indiana Municipal Power Agency	Electric Utility	Richmond 5	IN	64247	RICH5	9.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.2
2021	5	63185	Neighborhood Power Corp.	IPP	River Valley Solar	OR	63665	W0054	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2021	5	62873	Plott Hound Solar, LLC	IPP	Plott Hound Solar	NC	63015	1088	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	5	61946	Prairie State Solar, LLC	IPP	Prairie State Solar Project	IL	62420	PSS01	99.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	99.0
2021	5	63100	SE Juno, LLC	IPP	Juno Solar Project	TX	63328	JUNO1	159.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	159.0
2021	5	16609	San Diego Gas & Electric Co	Electric Utility	Fallbrook Energy Storage	CA	61365	FBES	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2021	5	63395	Spencer Solar Farm, LLC	IPP	Spencer Solar	MA	63676	SPENC	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2021	5	61668	Strauss Wind LLC	IPP	Strauss Wind Farm	CA	62113	ST-CA	98.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.8
2021	5	63396	Sturbridge Road Solar Farm, LLC	IPP	Sturbridge Road Solar	MA	63677	STURB	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2021	5	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid	MA	62977	SYN1B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2021	5	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid	MA	62977	SYN1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	4.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.4
2021	6	62984	AC Power 2 LLC	IPP	AC Power 2	NJ	63196	ACP2	3.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.8
2021	6	60368	BRE NC Solar 4, LLC	IPP	BRE NC Solar 4	NC	60628	BEAM4	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	6	63668	Bauer Community Solar LLC	IPP	Bauer Solar CSG	MN	64029	TC3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2021	6	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	BATT	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	6	63600	Cal Flats BESS, LLC	IPP	Cal Flats BESS	CA	63930	CF60	60.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	60.0
2021	6	4226	Consolidated Edison Co-NY Inc	Electric Utility	98th Street Battery Storage Station	NY	62839	ESS98	1.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2021	6	56769	Consolidated Edison Development Inc.	IPP	CED Denmark Solar Hybrid	ME	63898	DSBS	2.3	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.3
2021	6	56769	Consolidated Edison Development Inc.	IPP	CED Denmark Solar Hybrid	ME	63898	DSPV	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2021	6	57365	Consolidated Edison Solutions Inc	IPP	CES Agawam Tuckahoe Solar Hybrid	MA	63763	ATES	2.3	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.3
2021	6	57365	Consolidated Edison Solutions Inc	IPP	CES Agawam Tuckahoe Solar Hybrid	MA	63763	ATPV	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.6
2021	6	63611	Coso Battery Storage LLC	IPP	Coso Battery Storage	CA	63943	61730	60.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	60.0
2021	6	63523	DePue Holdings, LLC	IPP	DePue Holdings, LLC	IL	63845	DEPUE	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	6	61610	Delaware River Solar, LLC	IPP	State Route 64N Community Solar Farm	NY	62520	1089	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2021	6	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #1 Community Solar Farm	NY	62517	1142	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2021	6	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #2 Community Solar Farm	NY	62518	1181	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2021	6	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #3 Community Solar Farm	NY	62519	1244	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2021	6	62746	Don Lee BESS 1 LLC	IPP	Don Lee BESS 1 LLC	CA	62872	DONL1	6.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.5
2021	6	6455	Duke Energy Florida, LLC	Electric Utility	Trenton	FL	63995	ES1	11.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	11.0
2021	6	58970	Ecoplexus, Inc	IPP	OAKBORO PV1	NC	63162	OAKPV	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0
2021	6	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2021	6	63653	Energix Nokesville, LLC	IPP	Energix Nokesville, LLC	VA	64012	ENX07	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	61888	Gloversville Community Solar LLC	IPP	Gloversville Landfill Solar	NY	62357	08158	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	6	63499	Gunsight Solar, LLC	IPP	Gunsight Solar, LLC	SC	63813	PGR26	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2021	6	63715	Hecate Energy Albany 1 LLC	IPP	Hecate Energy Albany County 1	NY	64077	ALBNY	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	6	63453	Johnson Development Associates, Inc.	IPP	Pinson Solar Farm	SC	63777	1310	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	26.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC2	48.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC3	48.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPS1	46.3	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPST	81.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	89.2
2021	6	63549	Lily Solar, LLC	IPP	Lily Solar Hybrid	TX	63892	LILY	146.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	181.0
2021	6	63549	Lily Solar, LLC	IPP	Lily Solar Hybrid	TX	63892	LILYB	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0
2021	6	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEC Simple Cycle Gas Turbine	MA	63559	1	55.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	70.0
2021	6	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEC Simple Cycle Gas Turbine	MA	63559	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	65.0
2021	6	63647	Muscle Shoals Solar, LLC	IPP	Muscle Shoals	AL	62462	GEN01	227.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	227.0
2021	6	13402	Nevada Irrigation District	IPP	Loma Rica Hydroelectric Powerhouse	CA	60988	HY1	1.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.4
2021	6	62985	Pettinos Solar LLC	IPP	Pettinos Solar	NJ	63197	ACP4	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2021	6	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2021	6	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	63092	SE Titan, LLC	IPP	Titan Solar Project	TX	63320	IPTTN	260.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	260.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	6	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.4
2021	6	17609	Southern California Edison Co	Electric Utility	DESI-2 Battery Storage Facility	CA	62460	DESI2	1.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.4
2021	6	63328	USS Goodrich Solar	IPP	USS Goodrich Solar	IL	63620	USGCH	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	6	63327	USS Grandpa Solar	IPP	USS Grandpa Solar	IL	63619	USGPA	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2021	6	63329	USS Sycamore Solar	IPP	USS Sycamore Solar	IL	63621	USSYC	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	6	62978	USS Water City Solar LLC	IPP	USS Water City Solar LLC CSG	MN	63220	WTRCY	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2021	6	62977	USS Water Fowl Solar LLC	IPP	USS Water Fowl Solar LLC CSG	MN	63219	WTRFL	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2021	6	62976	USS Water Town Solar LLC	IPP	USS Water Town Solar LLC CSG	MN	63218	WTRTN	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2021	6	19564	University of Notre Dame	Commercial	Notre Dame Hydro	IN	62918	HYD1	2.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	2.5
2021	6	62048	Westlands Almond LLC	IPP	Almond	CA	62546	ALMND	19.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.9
2021	6	62808	Whitehorn Solar, LLC	IPP	Whitehorn Solar	VA	62959	WHIT1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2021	6	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	6	63225	Wister Solar	IPP	Wister Solar	CA	63487	WSOL	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-1	2.8	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	2.8
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-2	2.8	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	2.8
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-3	2.8	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	2.8
2021	7	62006	7X Energy, Inc.	IPP	Taygete II Energy Project	TX	64075	TAYG2	203.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	203.8
2021	7	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	7	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	7	63430	Astral Electricity, LLC	IPP	Chisholm Grid Energy Storage System	TX	63737	CHS01	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	7	63571	Azure Sky Solar Project, LLC	IPP	Azure Sky Solar	TX	63905	ASKYS	225.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	225.0
2021	7	63767	Beam Renewable Energy, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	7	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC1	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2021	7	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC2	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2021	7	6455	Duke Energy Florida, LLC	Electric Utility	Cape San Blas	FL	63996	ES1	5.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.5
2021	7	56987	East Blackland Solar Project 1 LLC	IPP	East Blackland Solar Project 1	TX	57659	PSF	144.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	144.0
2021	7	58970	Ecoplexus, Inc	IPP	Camp San Luis Obispo	CA	63870	CPSLO	1.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.2
2021	7	58970	Ecoplexus, Inc	IPP	Kern Valley SP	CA	63875	KRNVL	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2021	7	56615	First Solar Project Development	IPP	Sun Stream 2	AZ	63440	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2021	7	9234	Indiana Municipal Power Agency	Electric Utility	Anderson 4	IN	64248	SAND4	7.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.8
2021	7	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	BESS	260.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	269.1
2021	7	63403	Luna Storage, LLC	IPP	Luna Storage	CA	63685	LUNA	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	7	62915	Madison Energy Holdings LLC	IPP	ESCA-LL-COLTON, LLC	CA	64270	COLT1	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2021	7	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project Hybrid	CA	58462	MCST1	230.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	230.0
2021	7	63590	Novel Martens Solar LLC	IPP	Novel Martens Solar LLC	MN	63987	MRTNS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2021	7	63773	Orsted Onshore North America	IPP	Western Trail Wind, LLC	TX	64149	WTW	366.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	366.6
2021	7	14328	Pacific Gas & Electric Co.	Electric Utility	Elkhorn Battery Energy Storage System	CA	62564	ELKHO	182.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	182.5
2021	7	61593	Pleinmont Solar 2 LLC	IPP	Pleinmont Solar 2	VA	62013	PLNM2	240.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	240.0
2021	7	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	28.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	28.0
2021	7	63100	SE Juno, LLC	IPP	Juno Solar Project	TX	63328	IPJNO	141.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	141.0
2021	7	62699	SunEast Dog Corners Solar LLC	IPP	SunEast Dog Corners Solar Project	NY	62823	Q584	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	7	62757	SunEast Hills Solar LLC	IPP	SunEast Hills Solar Project	NY	62895	Q581	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	7	62698	SunEast Skyline Solar LLC	IPP	SunEast Skyline Solar Project	NY	62816	Q670	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	7	62756	SunEast Watkins Road Solar LLC	IPP	SunEast Watkins Road Solar Project	NY	62896	Q586	20.0	Solar Photovoltaic	SUN	PV	(OT) Other	20.0
2021	8	62049	Aquamarine Westside LLC	IPP	Aquamarine	CA	62547	AQUAM	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	8	63571	Azure Sky Solar Project, LLC	IPP	Azure Sky Solar	TX	63905	ASKYB	77.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	77.0
2021	8	56769	Consolidated Edison Development Inc.	IPP	Copper Mountain Solar 5, LLC	NV	63504	CM5-1	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	252.0
2021	8	61684	Diablo Energy Storage, LLC	IPP	Diablo Energy Storage	CA	62175	DIBLO	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	8	62807	Hawtree Creek Farm Solar, LLC	IPP	Hawtree Solar	NC	62951	HAWT1	65.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	65.0
2021	8	55983	Luminant Generation Company LLC	IPP	Brightside	TX	63223	UNIT1	50.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.7
2021	8	14354	PacifiCorp	Electric Utility	TB Flats	WY	62516	1	503.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	503.2
2021	8	56545	Pattern Operators LP	IPP	G.S.E. One LLC	TX	62505	1	82.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	83.0
2021	8	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2021	8	63257	Solar Carver 1, LLC	IPP	Solar Carver 1 Hybrid	MA	63541	BCRV1	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.0
2021	8	63243	Solar Carver 3, LLC	IPP	Solar Carver 3 Hybrid	MA	63506	BCRV3	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2021	8	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701-S	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2021	8	63519	Trent River Solar, LLC	IPP	Trent River Solar, LLC	NC	63842	PGR25	78.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	78.7
2021	8	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	5.8
2021	8	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN13	10.0	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	10.0
2021	9	62006	7X Energy, Inc.	IPP	Elara Solar	TX	64204	ELARA	130.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	132.4
2021	9	63253	Assembly Solar II LLC	IPP	Assembly Solar II LLC	MI	63538	AS2	110.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	110.0
2021	9	62659	BMP Wind LLC	IPP	BMP Wind (TX)	TX	62809	BMP	293.3	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	293.3
2021	9	59474	BQ Energy LLC	IPP	Yeoman Creek	IL	61910	YEOM	8.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.8
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-3	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-4	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	61060	Cypress Creek Renewables	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	9	63815	Dressor Plains Solar, LLC	IPP	Dressor Plains Solar, LLC	IL	64224	DPS	99.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	99.0
2021	9	6455	Duke Energy Florida, LLC	Electric Utility	Jennings Energy Storage Facility	FL	63998	ES1	5.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	5.5
2021	9	6455	Duke Energy Florida, LLC	Electric Utility	Micanopy Energy Storage Facility	FL	63999	ES1	8.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	8.3
2021	9	58135	Ecos Energy LLC	IPP	Weybridge 1 Solar	VT	61038	WEY1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2021	9	61944	GSRP	IPP	Chevron - Lost Hills Hybrid	CA	63545	BESS1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2021	9	7140	Georgia Power Co	Electric Utility	Fort Valley State University Solar	GA	63062	1	10.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.8
2021	9	7140	Georgia Power Co	Electric Utility	Georgia College & State University Solar	GA	63282	1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2021	9	19558	Homer Electric Assn Inc	Electric Utility	Soldotna	AK	57206	3	46.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	46.5
2021	9	9234	Indiana Municipal Power Agency	Electric Utility	Anderson 5	IL	64245	SAND5	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2021	9	55983	Luminant Generation Company LLC	IPP	Emerald Grove	TX	63233	UNIT1	108.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	108.0
2021	9	63139	Minonk Stewardship Wind LLC	IPP	Bennington Wind	IL	63384	BENN	93.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	93.0
2021	9	15296	New York Power Authority	Electric Utility	Willis Battery Storage	NY	63238	WB1	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	9	62743	RoxWind LLC	IPP	RoxWind	ME	62857	WIND1	15.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	15.3
2021	9	63101	SE Aragorn, LLC	IPP	Aragorn Solar Project	TX	63329	IPAGN	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2021	9	63275	Samoset Solar, LLC	IPP	Samoset Solar	ME	63551	PGR21	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	9	63493	Sugar Solar, LLC	IPP	Sugar Solar, LLC	NC	63807	PGR29	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	9	62700	SunEast Clay Solar LLC	IPP	SunEast Clay Solar Project	NY	62819	Q669	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid	MA	62968	SYTKS	2.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.8
2021	9	63420	Taos Mesa Energy Facility, LLC	IPP	Taos Mesa Energy Facility Hybrid	NM	63728	BESS	12.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	12.0
2021	9	63420	Taos Mesa Energy Facility, LLC	IPP	Taos Mesa Energy Facility Hybrid	NM	63728	TMEF1	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2021	9	63412	Westmoreland County Solar Project, LLC	IPP	Westmoreland County Solar Project	VA	63696	WEST	19.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.9
2021	10	61523	225DD 8me LLC	IPP	Galloway 1 Solar Farm	TX	61920	GSM01	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2021	10	61514	Agilitas Energy, LLC	IPP	Auburn Solar Project	MA	64213	AUB	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2021	10	61514	Agilitas Energy, LLC	IPP	Auburn Solar Project	MA	64213	BEAUB	3.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.8
2021	10	61825	Antelope Expansion 1B, LLC	IPP	Antelope Expansion 1B	CA	62320	ANE1B	17.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	10	63813	Assembly Solar III, LLC	IPP	Assembly Solar III	MI	64196	AS3	79.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	79.0
2021	10	63827	Bioenergy DevCo	Industrial	Maryland Food Center Authority AD	MD	64241	CHP1	1.1	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	1.1
2021	10	62886	Clover Creek Solar, LLC	IPP	Clover Creek Solar	UT	63061	CLVR	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2021	10	61060	Cypress Creek Renewables	IPP	Bay Tree	NC	63976	959	70.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.1
2021	10	61610	Delaware River Solar, LLC	IPP	Route 5 & 20 Community Solar Farm	NY	62523	1093	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2021	10	5248	Dominion Energy Inc	Electric Utility	Grassfield Solar	VA	64135	GFSO	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	10	58970	Ecoplexus, Inc	IPP	Westminister NC	NC	63567	WSMTR	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2021	10	61122	Great River Hydro, LLC	IPP	S C Moore	NH	2351	GEN5	4.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	4.6
2021	10	49893	Invenergy Services LLC	IPP	Harry Allen Solar Energy LLC	NV	63080	GEN1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	10	63776	JSD Flatwood PV-1, LLC	IPP	Bryant Road Solar	SC	64155	2001	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	10	63776	JSD Flatwood PV-1, LLC	IPP	Davis Road Solar	SC	64156	2002	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	10	63776	JSD Flatwood PV-1, LLC	IPP	Fairview Solar	SC	64205	2003	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	10	63776	JSD Flatwood PV-1, LLC	IPP	Highway 9 Solar	SC	64206	2004	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Bighorn Solar 1	CO	63770	COBH1	240.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	240.0
2021	10	62780	RE Slate LLC	IPP	Slate Hybrid	CA	63727	SLATE	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2021	10	62780	RE Slate LLC	IPP	Slate Hybrid	CA	63727	SLBES	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	315.0
2021	10	58901	Sustainable Hydro, Braddock, LLC	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2021	10	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid	MA	62974	SYMIB	3.8	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.8
2021	10	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid	MA	62974	SYMIS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	10	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid	MA	62968	SYTKB	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Camas Solar Project	WA	62071	CAMAS	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Fumaria Solar Project	WA	62070	FUMAR	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Penstemon Solar Project	WA	62069	PENST	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Typha Solar Project	WA	62068	TYPHA	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Urtica Solar Project	WA	62067	URTIC	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2021	11	15399	Avangrid Renewables LLC	IPP	Mohawk Solar	NY	64253	S1	90.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.5
2021	11	15399	Avangrid Renewables LLC	IPP	Montague Solar	OR	63441	S1	162.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	162.0
2021	11	63699	BD Solar 2 LLC	IPP	Winslow PV - BD Solar 2 LLC	ME	64069	WINPV	7.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.0
2021	11	63700	BD Solar Ellsworth LLC	IPP	BD Solar Ellsworth LLC	ME	64070	ELLPV	7.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.0
2021	11	63698	BD Solar Hancock LLC	IPP	BD Solar Hancock LLC	ME	64068	HANPV	7.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.0
2021	11	63696	BD Solar Palmyra LLC	IPP	Palmyra PV - BD Solar Palmyra LLC	ME	64062	PALPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	11	63414	Cool Springs Solar, LLC	IPP	Cool Springs Solar (Hybrid)	GA	63721	COOLS	213.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	213.0
2021	11	63414	Cool Springs Solar, LLC	IPP	Cool Springs Solar (Hybrid)	GA	63721	CSBAT	40.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	40.0
2021	11	6455	Duke Energy Florida, LLC	Electric Utility	Duette Solar Power Plant	FL	63978	PV1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2021	11	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2021	11	58970	Ecoplexus, Inc	IPP	Mule Creek State Prison	CA	63876	MLCRK	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2021	11	63418	Elora Solar	IPP	Elora Solar	TN	63719	ELO	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2021	11	56201	Engie North America	IPP	Iron Star Wind Project	KS	64003	WTG1	297.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	297.6
2021	11	56201	Engie North America	IPP	Priddy Wind Project	TX	64165	WTG1	302.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	302.4
2021	11	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	BMS	409.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	409.0
2021	11	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(V) Under construction, more than 50 percent complete	1,100.0
2021	11	63802	Independence Wind Energy LLC	IPP	Independence Wind Farm	IA	64183	IWE	54.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	54.0
2021	11	63289	Key Capture Energy	IPP	NY2 Battery	NY	63584	NY2	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Briar Creek Solar 1	TX	63769	TXBC1	127.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	127.0
2021	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elm Branch Solar 1	TX	63764	TXEB1	134.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	134.7
2021	11	60569	Lincoln Land Wind, LLC	IPP	Lincoln Land Wind	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2021	11	61762	Long Ridge Energy Generation LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	521.9
2021	11	55983	Luminant Generation Company LLC	IPP	Alira	TX	63193	UNIT1	222.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	222.8
2021	11	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	25.5
2021	11	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	CT2	5.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	6.1
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar Hybrid	GA	63522	HPBAT	40.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	40.0
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar Hybrid	GA	63522	HPRK	195.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	195.5
2021	11	63783	Rockhaven Wind Project, LLC	IPP	Rockhaven Wind Project, LLC	OK	64172	RHWWT	140.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	140.0
2021	11	61516	Stratford Solar Center, LLC	IPP	Stratford Solar Center, LLC	VA	61908	STRAT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2021	11	63539	SunEast Fairway Solar LLC	IPP	SunEast Fariway Solar Project	NY	63865	Q#848	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63551	SunEast Flat Hill Solar LLC	IPP	SunEast Flat Hill Solar Project	NY	63901	Q#865	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63537	SunEast Grassy Knoll Solar LLC	IPP	SunEast Grassy Knoll Solar Project	NY	63863	Q#885	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63540	SunEast Highview Solar LLC	IPP	SunEast Highview Solar Project	NY	63866	Q#591	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63543	SunEast Hilltop Solar LLC	IPP	SunEast Hilltop Solar Project	NY	63868	Q#807	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63538	SunEast Limestone Solar LLC	IPP	SunEast Limestone Solar Project	NY	63864	Q#806	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	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
2021	11	63536	SunEast Valley Solar LLC	IPP	SunEast Valley Solar Project	NY	63862	Q#828	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT5	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT6	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	52.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	52.5
2021	11	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	4	13.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	13.4
2021	11	60947	Tesla Inc.	Industrial	Tesla Reno GigaFactory	NV	64098	5	0.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	0.9
2021	11	60387	Townsite Solar, LLC	IPP	Townsite Solar Project Hybrid	NV	60654	GEN02	90.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	90.0
2021	12	61222	174 Power Global Corp.	IPP	Gerdau	TX	63797	GER01	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2021	12	57416	Acciona Energy USA Global, LLC	IPP	High Point Solar LLC	IL	63838	HPS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	60496	Adapture Renewables, Inc.	IPP	Scituate RI Solar, LLC	RI	61841	SCITU	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	12	62981	Aero Haven Solar LLC	IPP	Aero Haven Solar	NJ	63195	ACP3	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	60776	Aksamit Resource Management	IPP	Milligan III Wind Farm	NE	61159	M3001	73.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	73.4

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	12	59496	Allete Clean Energy	IPP	Caddo Wind	OK	64047	46002	303.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	303.6
2021	12	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center Hybrid	MO	63065	GBESS	2.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.5
2021	12	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center Hybrid	MO	63065	GCREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	12	59495	Ameren Missouri	Electric Utility	Richwoods Renewable Energy Center Hybrid	MO	63066	RBESS	4.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.0
2021	12	59495	Ameren Missouri	Electric Utility	Richwoods Renewable Energy Center Hybrid	MO	63066	RREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	12	59495	Ameren Missouri	Electric Utility	Utica Renewable Energy Center Hybrid	MO	63067	UBESS	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2021	12	59495	Ameren Missouri	Electric Utility	Utica Renewable Energy Center Hybrid	MO	63067	UREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	12	61118	Ameresco, Inc - Candlewood	IPP	Candlewood Solar	CT	61517	CANDL	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2021	12	803	Arizona Public Service Co	Electric Utility	Cotton Center Solar Hybrid	AZ	57561	CC17M	17.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	803	Arizona Public Service Co	Electric Utility	Desert Star Hybrid	AZ	62965	DS10M	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	12	803	Arizona Public Service Co	Electric Utility	El Sol BESS	AZ	62964	EL50M	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	12	803	Arizona Public Service Co	Electric Utility	Foothills Solar Plant Hybrid	AZ	57997	FH38M	38.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	38.0
2021	12	803	Arizona Public Service Co	Electric Utility	Gila Bend Hybrid	AZ	59020	GB36M	36.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	36.0
2021	12	803	Arizona Public Service Co	Electric Utility	Hyder II Hybrid	AZ	58383	H214M	14.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	14.0
2021	12	803	Arizona Public Service Co	Electric Utility	Hyder Solar Hybrid	AZ	57563	H116M	16.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	16.0
2021	12	803	Arizona Public Service Co	Electric Utility	Paloma Solar Hybrid	AZ	57562	PA17M	17.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	63862	Arlington Energy Center I	IPP	Arlington Energy Center I	CA	64272	AEC1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	12	15399	Avangrid Renewables LLC	IPP	Bakeoven Solar	OR	63507	BOS1	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	12	15399	Avangrid Renewables LLC	IPP	Golden Hill Wind	OR	63710	GH1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2021	12	15399	Avangrid Renewables LLC	IPP	Lund Hill Solar	WA	63509	LHS1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2021	12	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
2021	12	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
2021	12	59613	BayWa r.e. Solar Projects LLC	IPP	Bluebird Solar LLC	KY	62797	BBIRD	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62708	Black Bear Wind LLC	IPP	Black Bear Wind (MT)	MT	62808	BBW	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62995	Broad Mountain Power LLC	IPP	Broad Mountain Wind Project	PA	63210	BROAD	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2021	12	62718	Broad River Solar, LLC	IPP	Broad River Solar, LLC	NC	62822	GEN1	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	12	62713	Buenos Aires Windpower LLC	IPP	Buenos Aires Phase 1	TX	62803	BAW1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	63221	CD4	IPP	CD4	CA	63490	OEC1	17.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	25.0
2021	12	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	G6PV	0.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.8
2021	12	58508	Carolina Solar Energy LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2021	12	58508	Carolina Solar Energy LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	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
2021	12	56769	Consolidated Edison Development Inc.	IPP	Battle Mountain Solar Project	NV	61098	BMSP	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2021	12	56769	Consolidated Edison Development Inc.	IPP	CED Centerville Wind	IA	64178	CENTW	7.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	7.9
2021	12	56769	Consolidated Edison Development Inc.	IPP	CED Manchester Wind	IA	64177	MANW	7.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	7.9
2021	12	63578	Dodge Flat Solar, LLC	IPP	Dodge Flat	NV	63913	DODGE	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	58468	Dominion Renewable Energy	IPP	Meherrin Solar	VA	62758	MEHER	59.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	59.6
2021	12	62911	Drew Solar LLC	IPP	Drew Solar LLC	CA	63127	DS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	6455	Duke Energy Florida, LLC	Electric Utility	Charlie Creek Solar Power Plant	FL	63982	PV1	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2021	12	61785	EDP Renewables North America LLC	IPP	Saddle Mountain East Wind Farm	WA	62263	GEN1	126.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	126.0
2021	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	58970	Ecoplexus, Inc	IPP	East Nash PV2	NC	63789	ENSH2	26.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	26.0
2021	12	58970	Ecoplexus, Inc	IPP	Grifton PV2	NC	63568	GRFT2	56.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.0
2021	12	58970	Ecoplexus, Inc	IPP	Pleasant Hill PV1	NC	63787	PHILL	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	6.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	6.0
2021	12	59497	Eversource	IPP	Martha's Vineyard Community Battery	MA	62605	MVESS	4.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.9
2021	12	60688	FGE Goodnight, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2021	12	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2021	12	63772	Fish Springs Ranch Solar, LLC	IPP	Fish Springs	NV	64148	FISH	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	63345	Flodquist Community Solar LLC	IPP	Flodquist Community Solar LLC	MN	63650	TC3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS2	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS3	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS4	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	62759	Geronimo Energy	IPP	Elk Creek Solar	MN	63250	ELKCR	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2021	12	62759	Geronimo Energy	IPP	Prairie Wolf Solar LLC	IL	62893	PWOLF	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	63801	Graphite Solar I LLC	IPP	Graphite Solar I	UT	64186	394	81.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	81.9
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT1	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT3	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT4	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT5	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	62704	Grizzly Wind LLC	IPP	Grizzly Wind LLC	MT	62802	GW	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	63553	Haymaker Energy Project LLC	IPP	Haymaker Hybrid	MT	63878	HBESS	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	12	63764	Haystack Wind Project, LLC	IPP	Haystack Wind Project, LLC	NE	64139	4444	298.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	298.0
2021	12	62153	Hecate Energy Highland LLC	IPP	Hecate Energy Highland LLC	OH	62670	HIGHL	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2021	12	62765	High Bridge Wind, LLC	IPP	High Bridge Wind Project	NY	62894	WT	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	63497	Highest Power Solar, LLC	IPP	Highest Power Solar, LLC	NC	63812	PGR31	48.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	48.7
2021	12	63835	Indiana Crossroads Wind Farms LLC	IPP	Indiana Crossroads Wind Farm LLC	IN	64230	GEN01	302.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	302.4
2021	12	9234	Indiana Municipal Power Agency	Electric Utility	Anderson 3	IN	64244	SAND3	7.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	7.0
2021	12	49893	Invenergy Services LLC	IPP	Alle-Catt Wind Energy LLC	NY	62954	GEN1	340.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	340.0
2021	12	49893	Invenergy Services LLC	IPP	Badger Hollow Solar Farm LLC	WI	62955	GEN1	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2021	12	49893	Invenergy Services LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	288.0
2021	12	49893	Invenergy Services LLC	IPP	Horseshoe Solar Energy	NY	63096	GEN1	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2021	12	49893	Invenergy Services LLC	IPP	Traverse Wind Project, LLC	OK	63479	GEN1	999.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	999.0
2021	12	49893	Invenergy Services LLC	IPP	Yum Yum Solar LLC	TN	63026	GEN1	147.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	147.0
2021	12	62912	Iris Solar LLC	IPP	Iris Solar LLC	LA	63128	ISLLC	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	63765	Irish Creek Wind, LLC	IPP	Irish Creek Wind	KS	64138	ICW1	300.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.6
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT1	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT2	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	63244	KSI II Consolidated, LLC	IPP	Podunque Road	NY	64125	TWNSD	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	12	63289	Key Capture Energy	IPP	TX17 Nickel Prairie Storage	TX	63880	TX17	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	63769	Lancaster Solar LLC	IPP	Lancaster Solar GA	GA	64150	LANCR	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	12	63107	Lansing Renewables, LLC	IPP	Lansing Renewables, LLC	NY	63337	6004	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	61421	LeGore Bridge Solar Center, LLC	IPP	LeGore Bridge Solar Center	MD	61796	LGBSC	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	12	63496	Lick Creek Solar, LLC	IPP	Lick Creek Solar, LLC	NC	63811	PGR27	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Elk Hill Solar 1	PA	63773	PAEH1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	12	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
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	1	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	5	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	63658	Long Beach Trigen, LLC	IPP	Toyota Long Beach Trigen	CA	64005	MMR-1	2.2	Other Waste Biomass	OBG	FC	(L) Regulatory approvals pending. Not under construction	2.8
2021	12	63451	Madero Grid, LLC	IPP	Madero Grid	TX	63757	MAD01	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	63733	Maverick Solar 6, LLC	IPP	Maverick Solar 6, LLC	CA	64105	MAV03	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2021	12	63733	Maverick Solar 6, LLC	IPP	Maverick Solar 6, LLC	CA	64105	MAV04	50.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	50.0
2021	12	63734	Maverick Solar 7, LLC	IPP	Maverick Solar 7, LLC	CA	64106	MAV05	132.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	132.0
2021	12	63231	Maverick Wind Project, LLC	IPP	Maverick Wind Project, LLC	OK	63494	GEN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2021	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2021	12	63216	North Valley	IPP	North Valley	NV	63491	OEC1	25.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	37.0
2021	12	63110	Owlville Creek Solar 2, LLC	IPP	Owlville Creek Solar 2, LLC	NY	63340	6609	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	63111	Owlville Creek Solar, LLC	IPP	Owlville Creek Solar, LLC	NY	63341	6608	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	14328	Pacific Gas & Electric Co.	Electric Utility	Llagas Energy Storage	CA	63529	LLAGS	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	56545	Pattern Operators LP	IPP	Clines Corners Wind Farm LLC	NM	64054	1	325.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	325.0
2021	12	56545	Pattern Operators LP	IPP	Duran Mesa LLC	NM	64065	1	105.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	105.0
2021	12	56545	Pattern Operators LP	IPP	Old Jackson Solar LLC	TX	62501	1	127.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	128.0
2021	12	56545	Pattern Operators LP	IPP	Red Cloud Wind LLC	NM	63981	1	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2021	12	56545	Pattern Operators LP	IPP	Solemio LLC	TX	62522	1	79.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	56545	Pattern Operators LP	IPP	Tecolote Wind LLC	NM	64066	1	272.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	272.0
2021	12	62689	Piney Creek, LLC	IPP	Piney Creek Solar	VA	62768	PCSOL	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	61301	Plum Creek Wind Farm LLC	IPP	Plum Creek	MN	61687	PLMCK	400.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	400.0
2021	12	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	7	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	12	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	8	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	12	56215	RWE Renewables Americas LLC	IPP	Baron Winds Farm	NY	60596	1	130.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	130.0
2021	12	56215	RWE Renewables Americas LLC	IPP	Blackjack Creek Wind Farm	TX	62783	BLKJK	239.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	239.6
2021	12	56215	RWE Renewables Americas LLC	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
2021	12	56215	RWE Renewables Americas LLC	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2021	12	62896	Rooney Ranch, LLC	IPP	Rooney Ranch	CA	63088	ROONR	21.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	21.0
2021	12	63714	Route 66 Energy Center, LLC	IPP	Route 66 Energy Center, LLC	NM	64076	RTE66	49.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	49.5
2021	12	62983	SE Athos I, LLC	IPP	Athos Solar Project	CA	63300	IPAT1	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	12	61900	SR Arlington, LLC	IPP	SR Arlington I	GA	62436	ARLI	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	12	63798	SR Lumpkin, LLC	IPP	SR Lumpkin	GA	64191	LUMP	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	63770	SR Perry, LLC	IPP	SR Perry	GA	64151	PERRY	68.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	68.0
2021	12	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2021	12	62907	Sand Hill A, LLC	IPP	Sand Hill A	CA	63126	SNDHA	13.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.5
2021	12	62908	Sand Hill B, LLC	IPP	Sand Hill B	CA	63652	SNDHB	17.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	62909	Sand Hill C, LLC	IPP	Sand Hill C	CA	63653	SNDHC	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEABT	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	12	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEARC	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2021	12	62152	Skipjack Solar Center, LLC	IPP	Skipjack Solar Center	VA	62675	SKIPJ	175.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	175.0
2021	12	62717	Speedway Solar NC, LLC	IPP	Speedway Solar NC, LLC	NC	62821	GEN1	22.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.6
2021	12	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IL	60871	HOMES	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	12	62744	St. James Solar, LLC	IPP	St. James Solar (LA)	LA	62854	SJS	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	62716	Stony Knoll Solar, LLC	IPP	Stony Knoll Solar, LLC	NC	62820	GEN1	22.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.6
2021	12	63718	Sunflower County Solar Project, LLC	IPP	Sunflower County	MS	64081	SUNFL	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2021	12	63140	Three Rivers Solar Power, LLC	IPP	Three Rivers Solar Power, LLC	ME	63386	3RIVS	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	12	60387	Townsite Solar, LLC	IPP	Townsite Solar Project Hybrid	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2021	12	60847	West Fork Wind, LLC	IPP	West Fork Wind	IN	61214	WT1	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2021	12	63492	West River Solar, LLC	IPP	West River Solar, LLC	NC	63806	PGR28	40.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2021	12	62668	Wheatridge Wind Holdings, LLC	IPP	Wheatridge Hybrid	OR	62745	BTRY	30.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	30.0
2021	12	62668	Wheatridge Wind Holdings, LLC	IPP	Wheatridge Hybrid	OR	62745	SOLAR	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	60519	Williams Solar, LLC	IPP	Williams Solar, LLC	TX	60859	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	12	63276	Woodfields Solar, LLC	IPP	Woodfields Solar	SC	63552	PGR21	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	1	62794	AP Solar 2, LLC	IPP	Fighting Jays Solar Project	TX	62945	FJSOL	350.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	350.0
2022	1	14605	City of Peabody - (MA)	Electric Utility	Waters River	MA	1678	3	55.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2022	1	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(OT) Other	5.0
2022	1	6455	Duke Energy Florida, LLC	Electric Utility	Bay Trail Solar Power Plant	FL	64145	PV1	42.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2022	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2022	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2022	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2022	1	63723	Ignacio Grid, LLC	IPP	Ignacio Grid Energy Storage System	TX	64089	IGN01	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2022	1	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	GEN1	59.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	70.5
2022	1	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	STG1	20.2	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	22.0
2022	1	63502	Partin Solar, LLC	IPP	Partin Solar	NC	63827	95	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2022	1	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNY	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2022	1	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECPJ	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2022	1	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid	MA	62971	SYWEB	2.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.9
2022	1	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid	MA	62971	SYWES	4.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.7
2022	2	63784	Azure Sky Wind Project, LLC	IPP	Azure Sky Wind Project, LLC Hybrid	TX	64164	ASWWT	350.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.2
2022	2	9234	Indiana Municipal Power Agency	Electric Utility	Anderson 6	IN	64249	SAND6	5.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	2	55983	Luminant Generation Company LLC	IPP	Jayhawk	TX	59806	SOLAR	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2022	2	63612	Perquimans Solar LLC	IPP	Perquimans Solar LLC	NC	63955	PERQU	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2022	2	6775	Village of Freeport - (NY)	Electric Utility	Plant No 1 Freeport	NY	2678	ENG13	3.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	3.0
2022	3	63722	Alta Farms II Wind Project, LLC	IPP	Alta Farms II Wind Project, LLC	IL	64088	WT2	200.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.5
2022	3	63784	Azure Sky Wind Project, LLC	IPP	Azure Sky Wind Project, LLC Hybrid	TX	64164	ASWBE	120.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	120.0
2022	3	63677	Caden Energix New Kent, LLC	IPP	Caden Energix New Kent, LLC	VA	64036	ENX08	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2022	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2022	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN3	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2022	3	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG1	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2022	3	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG2	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	368.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	368.1
2022	3	63289	Key Capture Energy	IPP	TX18 Cottage Meadow Storage	TX	63879	TX18	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	3	62893	Mililani I Solar LLC	IPP	Mililani South Solar Farm	HI	57242	1	39.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	39.0
2022	3	63755	Old 300 Solar Center, LLC	IPP	Old 300 Solar Center, LLC	TX	64133	2222	430.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	430.0
2022	3	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
2022	4	63118	224WB 8me LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2022	4	61525	231RC 8me LLC	IPP	Norton Solar Farm	TX	61967	NSM01	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2022	4	57416	Acciona Energy USA Global, LLC	IPP	Fort Bend Solar LLC	TX	63985	FBS	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2022	4	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2022	4	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	11	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	12	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	1S	428.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	478.6
2022	4	6455	Duke Energy Florida, LLC	Electric Utility	Sandy Creek Solar Power Plant	FL	64146	PV1	42.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2022	4	9234	Indiana Municipal Power Agency	Electric Utility	Peru 3	IN	64250	PERU3	2.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.9
2022	4	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	01	600.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	600.0
2022	4	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	02	600.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	600.0
2022	4	63426	RE Bravepost LLC	IPP	RE Bravepost LLC	TX	63730	BVPST	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2022	4	56215	RWE Renewables Americas LLC	IPP	Big Star Solar, LLC	TX	64202	BGSTB	80.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	80.0
2022	4	56215	RWE Renewables Americas LLC	IPP	Big Star Solar, LLC	TX	64202	BGSTS	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2022	4	62983	SE Athos I, LLC	IPP	Athos Solar Project	CA	63300	IPAT2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2022	4	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Pulp Processing Facility	FL	58997	G1001	12.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	20.0
2022	4	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2022	4	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705-S	5.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	5.0
2022	5	15399	Avangrid Renewables LLC	IPP	Camino Solar	CA	63508	CS1	44.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	44.0
2022	5	15399	Avangrid Renewables LLC	IPP	Camino Solar	CA	63508	CS2	11.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.0
2022	5	58489	OCI Solar Power	IPP	OCI SunRay	TX	64258	OCISR	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	5	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	201.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	201.8
2022	6	61541	1634 Solar, LLC	IPP	1634 Solar	SC	61935	3	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61222	174 Power Global Corp.	IPP	Kupehau	HI	63799	KUP01	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2022	6	61222	174 Power Global Corp.	IPP	Kupehau	HI	63799	KUPB1	60.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	60.0
2022	6	63826	201LC 8me LLC	IPP	Rockmont Solar and Storage Project	NM	64216	201LC	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	6	63826	201LC 8me LLC	IPP	Rockmont Solar and Storage Project	NM	64216	309SJ	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	6	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARESS	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2022	6	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARSOL	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	6	61711	Ashley Solar (SC)	IPP	Ashley Solar (SC)	SC	62179	21	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61712	Atlantic Solar	IPP	Atlantic Solar	SC	62180	22	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	6	61713	B & K Solar	IPP	B & K Solar	SC	62181	23	63.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	63.0
2022	6	61544	Bani Solar, LLC	IPP	Bani Solar	SC	61938	4	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61714	Battle Solar	IPP	Battle Solar	SC	62182	24	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61715	Bell Solar	IPP	Bell Solar	SC	62183	25	6.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.1
2022	6	61716	Big Fork Solar	IPP	Big Fork Solar	SC	62184	26	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2022	6	61717	Birch Solar	IPP	Birch Solar	SC	62185	27	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61519	Blackville Solar Farm, LLC	IPP	Blackville Solar Farm, LLC	SC	61918	1	7.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.2
2022	6	63575	Bluegrass Solar, LLC	IPP	Bluegrass Solar	MD	63910	BGS	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2022	6	62920	Cabin Point Solar Center LLC	IPP	Cabin Point Solar Center	VA	63134	CBNPT	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2022	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0	All Other	OTH	CC	(T) Regulatory approvals received. Not under construction	50.0
2022	6	61718	Chapman Solar	IPP	Chapman Solar	SC	62186	28	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2022	6	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2022	6	61719	Clark Solar	IPP	Clark Solar	SC	62187	29	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61720	Colleton Solar	IPP	Colleton Solar	SC	62188	30	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61721	Collins Farm Solar	IPP	Collins Farm Solar	SC	62189	31	5.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.4
2022	6	61722	Crossroads Solar	IPP	Crossroads Solar	SC	62190	32	67.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	67.7
2022	6	61729	Culpepper Solar	IPP	Culpepper Solar	SC	62221	33	69.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	69.5
2022	6	61730	Dadswell Solar	IPP	Dadswell Solar	SC	62222	34	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	6	63556	Delilah Solar Energy II LLC	IPP	Delilah Solar Energy II LLC	TX	63884	GEN1	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2022	6	61731	Denmark Solar	IPP	Denmark Solar	SC	62211	35	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2022	6	61732	Fairfield Solar	IPP	Fairfield Solar	SC	62212	36	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2022	6	61733	Fishwater Solar	IPP	Fishwater Solar	SC	62213	37	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	7GT1	385.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	385.6
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	7GT2	385.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	385.6
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	ST7	391.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	391.8

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	6	61735	Foreman Solar	IPP	Foreman Solar	SC	62215	39	6.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.4
2022	6	63524	Freepoint Commodities LLC	IPP	Raceway Solar	DE	63846	RACE	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	6	61737	GEB Solar	IPP	GEB Solar	SC	62217	40	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2022	6	61738	Gedosch Solar II	IPP	Gedosch Solar II	SC	62218	42	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	63474	Hecate Energy Gedney Hill LLC	IPP	Hecate Energy Gedney Hill	NY	63815	GEDNY	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	6	63437	Helena Wind, LLC	IPP	Helena Wind	TX	63738	HEL	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2022	6	61746	Holliday Solar I	IPP	Holliday Solar I	SC	62229	43	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	9234	Indiana Municipal Power Agency	Electric Utility	Richmond 6	IN	64252	RICH6	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2022	6	49893	Invenergy Services LLC	IPP	Canisteo Wind Farm	NY	62947	GEN1	290.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	290.7
2022	6	61749	Jackson Solar	IPP	Jackson Solar	SC	62232	46	14.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.0
2022	6	61750	Jefferson Solar	IPP	Jefferson Solar	SC	62233	47	8.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.2
2022	6	61751	Juniper Solar	IPP	Juniper Solar	SC	62234	48	65.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.5
2022	6	61752	Lone Star Solar	IPP	Lone Star Solar	SC	62235	49	66.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	66.0
2022	6	61753	Luz Solar	IPP	Luz Solar	SC	62236	50	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61755	Marshall Solar	IPP	Marshall Solar	SC	62238	52	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61796	Martin Central Solar	IPP	Martin Central Solar	SC	62285	53	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61787	Martin East Solar	IPP	Martin East Solar	SC	62276	54	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61788	Martin West Solar	IPP	Martin West Solar	SC	62277	55	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61789	McClain Solar	IPP	McClain Solar	SC	62278	56	17.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	17.3
2022	6	61790	McCormick Solar	IPP	McCormick Solar	SC	62279	57	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61791	Melsam Solar	IPP	Melsam Solar	SC	62280	58	60.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.5
2022	6	61792	Middleton Solar	IPP	Middleton Solar	SC	62281	59	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	58489	OCI Solar Power	IPP	Golinda Solar	TX	64260	OCISO	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	6	58489	OCI Solar Power	IPP	Spanish Crown	TX	64259	OCICR	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	6	61793	Pee Dee Solar I	IPP	Pee Dee Solar I	SC	62282	60	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61794	Pee Dee Solar II	IPP	Pee Dee Solar II	SC	62283	61	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61795	Power Solar	IPP	Power Solar	SC	62284	62	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2022	6	61804	Pruger Solar I	IPP	Pruger Solar I	SC	62292	63	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61805	Pruger Solar II	IPP	Pruger Solar II	SC	62293	64	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61806	Pruger Solar III	IPP	Pruger Solar III	SC	62294	65	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT1	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT2	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT3	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT4	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT5	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT6	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT7	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	61807	Quest Solar	IPP	Quest Solar	SC	62299	66	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2022	6	62694	Rappahannock Solar, LLC	IPP	Rappahannock Solar, LLC	VA	62780	100	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2022	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,022.9
2022	6	61808	Rollins Solar	IPP	Rollins Solar	SC	62295	67	63.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	63.0
2022	6	61809	Ross Solar	IPP	Ross Solar	SC	62296	68	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61810	Rutledge Solar	IPP	Rutledge Solar	SC	62297	69	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	63778	SR Litchfield, LLC	IPP	SR Litchfield	CT	64161	LITCH	19.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	19.8
2022	6	63781	SR North Stonington, LLC	IPP	SR North Stonington	CT	64160	STONE	9.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	9.9
2022	6	61814	Sandifer Solar	IPP	Sandifer Solar	SC	62298	70	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61828	Scarlet Solar	IPP	Scarlet Solar	SC	62307	71	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61829	Shem Solar	IPP	Shem Solar	SC	62308	72	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61830	Shining Sun Solar	IPP	Shining Sun Solar	SC	62309	73	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2022	6	61831	Shorthorn Solar	IPP	Shorthorn Solar	SC	62310	74	60.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.5
2022	6	61832	Snoopy Solar	IPP	Snoopy Solar	SC	62311	75	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61833	Southard Solar	IPP	Southard Solar	SC	62312	76	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2022	6	63515	Sparta Solar, LLC	IPP	Sparta Solar	TX	63840	1111	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2022	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT4	237.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.0
2022	6	61834	Stamey Solar	IPP	Stamey Solar	SC	62313	77	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61835	Tarpon Solar I	IPP	Tarpon Solar I	SC	62314	78	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61836	Tedder Solar	IPP	Tedder Solar	SC	62315	79	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61837	Ten Governors Solar	IPP	Ten Governors Solar	SC	62316	80	28.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	28.0
2022	6	61862	Thomas Solar	IPP	Thomas Solar	SC	62352	81	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61861	Topaz Solar	IPP	Topaz Solar (SC)	SC	62349	82	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61860	Trask East Solar	IPP	Trask East Solar	SC	62346	83	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2022	6	61859	Ulmer Solar	IPP	Ulmer Solar	SC	62343	85	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2022	6	62650	Victorville Energy Center, LLC	Industrial	Victorville Energy Center, LLC (CA)	CA	62726	1	20.1	All Other	WH	ST	(P) Planned for installation, but regulatory approvals not initiated	20.1
2022	6	61868	WSW Solar	IPP	WSW Solar	SC	62350	86	10.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.8
2022	6	61863	Washington Solar (SC)	IPP	Washington Solar (SC)	SC	62342	87	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61864	Washington Solar II (SC)	IPP	Washington Solar II (SC)	SC	62344	88	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61865	Wayfair Solar	IPP	Wayfair Solar	SC	62345	89	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61866	Weaver Solar	IPP	Weaver Solar	SC	62347	90	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	63525	Westlands Solar Blue, LLC	IPP	Solar Blue	CA	63848	SBLUE	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2022	6	61869	Wysong Solar	IPP	Wysong Solar	SC	62351	92	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2022	6	61870	Yemassee Solar	IPP	Yemassee Solar	SC	62353	93	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2022	6	61871	York Solar	IPP	York Solar	SC	62354	94	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	7	60146	Ameresco Federal Solutions	IPP	Fort Bragg - Camp Mackall PV BESS System	NC	64050	CMABS	2.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.0
2022	7	60146	Ameresco Federal Solutions	IPP	Fort Bragg - Camp Mackall PV BESS System	NC	64050	CMAPV	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2022	7	49893	Invenergy Services LLC	IPP	Delilah Solar Energy LLC	TX	63194	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2022	7	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Blackbear Solar 1	AL	63765	ALBB1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	7	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2022	7	18642	Tennessee Valley Authority	Electric Utility	Vonore Battery Energy Storage System	TN	64255	VBESS	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	8	60796	91MC 8me LLC	IPP	Aratina Solar Center 1 Hybrid	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	8	60796	91MC 8me LLC	IPP	Aratina Solar Center 1 Hybrid	CA	61167	BESS	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	8	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS1	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	9	63830	7V Solar Ranch, LLC	IPP	7V Solar Ranch	TX	64239	7V1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2022	9	5248	Dominion Energy Inc	IPP	Norge Solar Farm	VA	64086	NORG	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2022	9	5248	Dominion Energy Inc	Electric Utility	Sycamore Solar	VA	64136	SYSO	42.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	42.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	9	63828	Empire Community Solar LLC	IPP	Holley Road Solar	NY	64240	#0879	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	9	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS2	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	9	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	H0001	52.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	52.0
2022	9	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	HESS1	52.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	52.0
2022	9	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM50	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2022	9	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM51	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2022	9	63636	Homestead Fuel Cell 1, LLC	IPP	Homestead Fuel Cell	CT	63980	MM52	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2022	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Happy Solar 1	AR	63766	ARHA1	95.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	95.0
2022	9	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	106.0
2022	9	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	106.0
2022	9	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	106.0
2022	9	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	106.0
2022	9	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
2022	10	62709	Bakerstand Solar LLC	IPP	Bakerstand Solar (NY)	NY	62811	BKSTD	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	10	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2022	10	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2022	10	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS3	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	10	63638	Horseshoe Solar, LLC	IPP	Horseshoe Solar, LLC	UT	63984	HSS	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2022	10	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2022	10	63639	Rocket Solar, LLC	IPP	Rocket Solar, LLC	UT	63983	RS	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2022	10	63541	SunEast Tabletop Solar LLC	IPP	SunEast Tabletop Solar Project	NY	63867	Q#869	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2022	10	59056	Tri Global Energy, LLC	IPP	Water Valley Wind Energy	TX	62846	WWE1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2022	11	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	61168	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2022	11	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	11	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	KLOAB	30.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	30.0
2022	11	61012	AES Distributed Energy	IPP	AES Waikoloa Solar Hybrid	HI	63900	YKLOA	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2022	11	15399	Avangrid Renewables LLC	IPP	Bakeoven Solar	OR	63507	BOS2	140.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	140.0
2022	11	62734	Blue Marmot IX LLC	IPP	Blue Marmot IX	OR	62867	DVRO	9.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2022	11	62735	Blue Marmot V LLC	IPP	Blue Marmot V	OR	62866	DNZE	9.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2022	11	62736	Blue Marmot VI LLC	IPP	Blue Marmot VI	OR	62865	DNZW	9.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2022	11	62737	Blue Marmot VII LLC	IPP	Blue Marmot VII	OR	62864	RSHEI	9.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2022	11	62738	Blue Marmot VIII LLC	IPP	Blue Marmot VIII	OR	62863	PRMLE	9.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2022	11	63526	Chestnut Westside, LLC	IPP	Chestnut	CA	63849	CHNUT	150.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.6
2022	11	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2022	11	63726	Renewable Energy Ventures LLC	IPP	Forest Grove - Dodd	TX	64131	FGPV1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.6
2022	11	63726	Renewable Energy Ventures LLC	IPP	Oak Hill - Dry Creek	TX	64132	PV1	390.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	390.9
2022	12	61222	174 Power Global Corp.	IPP	Atlas	AZ	63798	ATL01	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	12	61222	174 Power Global Corp.	IPP	Atlas	AZ	63798	ATLB1	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	12	61012	AES Distributed Energy	IPP	AES Maui Kuihelani Solar Hybrid	HI	64256	KLNIB	60.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	60.0
2022	12	61012	AES Distributed Energy	IPP	AES Maui Kuihelani Solar Hybrid	HI	64256	KULNI	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2022	12	63448	Aiya Solar CEI, LLC	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	63494	Allora Solar, LLC	IPP	Allora Solar, LLC	SC	63808	PGR30	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2022	12	63803	Apex Solar LLC	IPP	Rattlesnake Solar	MT	64189	RSNAK	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2022	12	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	1	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	2	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2022	12	15399	Avangrid Renewables LLC	IPP	Midland Wind	IL	63003	1	115.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	115.0
2022	12	63793	Bear Branch Solar	IPP	Bear Branch Solar	NC	64168	GEN	35.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	35.0
2022	12	63421	Biggs Ford Solar Center, LLC	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	61386	C4GT, LLC	IPP	C4GT	VA	61760	C4GT	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,060.0
2022	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	181.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	181.0
2022	12	56769	Consolidated Edison Development Inc.	IPP	Burt County Wind	NE	61511	BCNE	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN4	36.3	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	36.3
2022	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONR2	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2022	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONRI	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	201.0
2022	12	62742	ENEL BELLA ENERGY STORAGE, LLC	IPP	Goleta Grid Resiliency	CA	63736	BESS1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2022	12	63559	Edmondson Ranch Wind, LLC	IPP	Edmondson Ranch Wind, LLC	TX	63890	ERWE	293.3	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	293.3
2022	12	59380	Enel Green Power NA, Inc.	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2022	12	59380	Enel Green Power NA, Inc.	IPP	Sierra Energy Storage, LLC	CA	61803	10003	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2022	12	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2022	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	12	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2022	12	60411	Friesian Holdings, LLC	IPP	Friesian Holdings	NC	60692	PV1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2022	12	61736	Gaines Solar	IPP	Gaines Solar	SC	62216	41	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	12	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2022	12	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKBA	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0
2022	12	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKSOL	30.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	30.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 1	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 2	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	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
2022	12	63792	Hornet Solar	IPP	Hornet Solar	NC	64167	GEN	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2022	12	63791	Hunters Cove Solar	IPP	Hunters Cove Solar	NC	64166	GEN	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2022	12	49893	Invenergy Services LLC	IPP	Samson Solar Energy	TX	63211	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2022	12	49893	Invenergy Services LLC	IPP	Tip Top Solar Energy Center LLC	NM	63028	GEN1	220.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	220.0
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN1	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN2	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	1	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	2	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	3	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	4	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	5	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	63672	MTSUN LLC	IPP	MTSUN	MT	64032	MTSUN	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2022	12	61422	Mason Dixon Solar Center, LLC	IPP	Mason Dixon Solar Center	MD	61797	PV	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center Hybrid	CO	63731	NT125	125.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	125.0
2022	12	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center Hybrid	CO	63731	NT325	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2022	12	63238	OE_ALC	IPP	AL Solar C LLC	AL	63513	OEALC	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2022	12	63574	Otter Creek Solar LLC	IPP	Otter Creek Solar	VA	63909	OTTER	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHBA	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHSOL	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	63501	Panther Grove Wind, LLC	IPP	Panther Grove Wind, LLC	IL	63818	78787	400.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	400.0
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 2 LLC	CA	61446	PV2	45.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	45.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 3 LLC	CA	61447	PV3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 4 LLC	CA	61448	PV4	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 5 LLC	CA	61449	PV5	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	56215	RWE Renewables Americas LLC	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2022	12	56215	RWE Renewables Americas LLC	IPP	Fifth Standard Solar PV, LLC	CA	64197	FTHSB	117.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	117.0
2022	12	56215	RWE Renewables Americas LLC	IPP	Fifth Standard Solar PV, LLC	CA	64197	FTHSS	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2022	12	56215	RWE Renewables Americas LLC	IPP	Willowbrook Solar I, LLC	OH	63877	WBS	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT1	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT2	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	ST	396.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	414.8
2022	12	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center Hybrid	CO	63776	TW100	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center Hybrid	CO	63776	TW300	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2022	12	63561	TransAlta Holdings U.S. Inc.	IPP	Tono Solar	WA	63902	TSPV1	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2023	1	59315	Bradley Farm LLC	IPP	Bradley Farm (Dudley)	NC	62593	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	1	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	374.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	501.0
2023	1	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	257.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	312.8
2023	1	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	BBST1	335.0	Natural Gas Steam Turbine	NG	ST	(P) Planned for installation, but regulatory approvals not initiated	445.5
2023	2	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2023	2	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2023	3	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
2023	3	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	3	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	480.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	480.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES1	129.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	129.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES2	98.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	98.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES3	89.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	89.0
2023	3	17609	Southern California Edison Co	Electric Utility	Cadillac Battery Energy Storage Facility	CA	63326	CAD1	3.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.5
2023	3	17609	Southern California Edison Co	Electric Utility	Yorktown Battery Energy Storage Facility	CA	63325	YORK1	3.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.0
2023	4	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2023	4	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2023	4	17568	Cooperative Energy	Electric Utility	R D Morrow	MS	6061	MOR1	514.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	550.0
2023	5	63601	CPV Three Rivers, LLC	IPP	CPV Three Rivers Energy Center	IL	63931	GEN1	607.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	650.0
2023	5	63601	CPV Three Rivers, LLC	IPP	CPV Three Rivers Energy Center	IL	63931	GEN2	607.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	650.0
2023	5	62733	Cranberry Point Energy Storage LLC	IPP	Cranberry Point Energy Storage	MA	62844	NA	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	5	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	6	227.8	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	227.8
2023	5	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2023	5	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2023	5	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2023	5	55983	Luminant Generation Company LLC	IPP	Hallmark	TX	63234	UNIT1	42.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	42.0
2023	5	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	4	88.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	88.0
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC1	385.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	454.5
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Lowman Energy Center	AL	56	LEC2	245.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	272.2
2023	6	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
2023	6	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
2023	6	63807	302PN 8me LLC	IPP	Red Antelope Solar & Energy Storage Farm	AZ	64208	30PNA	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2023	6	63807	302PN 8me LLC	IPP	Red Antelope Solar & Energy Storage Farm	AZ	64208	30PNB	500.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	500.0
2023	6	63520	326FW 8me LLC	IPP	Arida Solar	NV	63841	ARIDA	370.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	370.0
2023	6	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
2023	6	63825	45MG 8me LLC	IPP	Aratina Solar Center 2	CA	64215	45MGB	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	6	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
2023	6	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
2023	6	63557	Delilah Solar Energy III LLC	IPP	Delilah Solar Energy III LLC	TX	63885	GEN1	310.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	310.0
2023	6	63503	Hardin Solar Energy II LLC	IPP	Hardin Solar Energy II LLC	OH	63828	GEN1	170.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	170.0
2023	6	63832	Hecate Energy Harley Hand Solar LLC	IPP	Hecate Energy Harley Hand Solar LLC	TX	64234	19936	500.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	500.0
2023	6	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	CTG01	431.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	431.0
2023	6	63554	Samson Solar Energy II LLC	IPP	Samson Solar Energy II LLC	TX	63882	GEN1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	6	63555	Samson Solar Energy III LLC	IPP	Samson Solar Energy III LLC	TX	63883	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2023	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST2	232.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	260.0
2023	6	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2023	6	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2023	6	63527	Westlands Cherry, LLC	IPP	Cherry	CA	63850	CHERY	249.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	249.7
2023	6	63528	Westlands Grape, LLC	IPP	Grape	CA	63851	GRAPE	246.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	246.4
2023	7	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	61169	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	7	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	286.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	286.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	436.0
2023	7	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	259.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	310.2
2023	7	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	233.7
2023	9	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	BESS	135.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	135.0
2023	9	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	SBS	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5

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	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2023	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
2023	10	63579	Illinois Winds LLC	IPP	Panther Creek Wind Project	IL	63907	WTGE	44.5	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	46.0
2023	10	61914	Juwi Inc	IPP	Spanish Peaks Solar	CO	62379	47301	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2023	10	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
2023	10	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA1	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2023	10	61906	Rye Development	IPP	Arkabutla Lake Hydroelectric Project	MS	62402	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Beverly L&D Hydroelectric Project	OH	62403	NA1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	10	61906	Rye Development	IPP	Devola L&D Hydroelectric Project	OH	62435	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	10	61906	Rye Development	IPP	Emsworth BC Hydroelectric Project	PA	62434	NA1	3.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA1	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.5
2023	10	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Grays Landing L&D Hydroelectric Project	PA	62388	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	10	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA1	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	10	61906	Rye Development	IPP	Lowell L&D Hydroelectric Project	OH	62429	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Maxwell L&D Hydroelectric Project	PA	62385	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Monongahela L&D4 Hydroelectric Project	PA	62404	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	10	61906	Rye Development	IPP	Morgantown L&D Hydroelectric Project	WV	62387	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Opekiska L&D Hydroelectric Project	WV	62386	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	10	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	10	61906	Rye Development	IPP	Philo L&D Hydroelectric Project	OH	62427	NA1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	10	61906	Rye Development	IPP	Point Marion L&D Hydroelectric Project	PA	62384	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Rokeby L&D Hydroelectric Project	OH	62426	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	10	61906	Rye Development	IPP	Sardis Lake Hydroelectric Project	MS	62425	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	10	62895	Vineyard Wind LLC	IPP	Vineyard Wind 1	MA	63093	VW01	800.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	800.0
2023	11	195	Alabama Power Co	Electric Utility	Barry	AL	3	A3C1	385.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	464.0
2023	11	195	Alabama Power Co	Electric Utility	Barry	AL	3	A3ST	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	310.0
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARBE1	690.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	690.0
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARPV1	280.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	380.0
2023	11	61797	Hecate Energy LLC	IPP	Hecate Energy Columbia County Solar	NY	62273	HECC1	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2023	11	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
2023	11	49893	Invenergy Services LLC	IPP	Lovelock Solar	NV	62934	GEN1	190.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	190.0
2023	11	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA2	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2023	11	61906	Rye Development	IPP	Arkabutla Lake Hydroelectric Project	MS	62402	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Beverly L&D Hydroelectric Project	OH	62403	NA2	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	11	61906	Rye Development	IPP	Devola L&D Hydroelectric Project	OH	62435	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Emsworth BC Hydroelectric Project	PA	62434	NA2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA2	6.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.5
2023	11	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Grays Landing L&D Hydroelectric Project	PA	62388	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA2	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA3	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA4	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA5	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	Lowell L&D Hydroelectric Project	OH	62429	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Malta L&D Hydroelectric Project	OH	62428	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Malta L&D Hydroelectric Project	OH	62428	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Maxwell L&D Hydroelectric Project	PA	62385	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Monongahela L&D4 Hydroelectric Project	PA	62404	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Morgantown L&D Hydroelectric Project	WV	62387	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Opekiska L&D Hydroelectric Project	WV	62386	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA5	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA6	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Philo L&D Hydroelectric Project	OH	62427	NA2	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	11	61906	Rye Development	IPP	Point Marion L&D Hydroelectric Project	PA	62384	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Rokeby L&D Hydroelectric Project	OH	62426	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Sardis Lake Hydroelectric Project	MS	62425	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	12	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
2023	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
2023	12	63799	Cabin Creek Solar I LLC	IPP	Cabin Creek Solar	MT	64199	CBCK1	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2023	12	63819	Cabin Creek Solar II LLC	IPP	Cabin Creek Solar II	MT	64203	CBCK2	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2023	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2023	12	63464	Crossroads Solar, LLC	IPP	Crossroads Solar (PA)	PA	63785	CROSS	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	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
2023	12	63553	Haymaker Energy Project LLC	IPP	Haymaker Hybrid	MT	63878	HAY	600.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	600.0
2023	12	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
2023	12	63797	Hecate Energy Columbia Count 1 LLC	IPP	Shepherd's Run Solar	NY	64188	PV	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2023	12	63839	Hecate Grid Clermont 1 LLC	IPP	Clermont	NY	64236	CLRMT	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2023	12	63838	Hecate Grid Swiftsure LLC	IPP	Swiftsure	NY	64235	SWFTS	650.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	650.0
2023	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI03	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	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
2023	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
2023	12	63504	Kruger Energy Mantura Solar, LLC	IPP	Kruger Energy Mantura Solar, LLC	VA	63822	KEMS	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0

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	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLES1	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2023	12	13407	Nevada Power Co	Electric Utility	Dry Lake Solar Energy Center	NV	63933	DLPV1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2023	12	63217	Obsidian Solar Center LLC	IPP	Obsidian Solar Center	OR	63488	OBSLR	400.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	400.0
2023	12	63463	Palomino Solar, LLC	IPP	Palomino Solar	OH	63784	PLMNO	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	63821	Pike Solar LLC	IPP	Pike Solar Hybrid	CO	64212	CO465	175.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	175.0
2023	12	63821	Pike Solar LLC	IPP	Pike Solar Hybrid	CO	64212	PSBES	25.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	25.0
2023	12	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
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2023	12	63488	Shady Hills Energy Center, LLC	IPP	Shady Hills Combined Cycle Facility	FL	63802	G001	546.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	573.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCBAT	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCSOL	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2023	12	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
2023	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	12	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2023	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	12	63626	Two Rivers Wind LLC	IPP	Two Rivers Wind Facility	WY	63972	TR1	280.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	280.0
2024	1	61033	Boswell Wind Project I, LLC	IPP	Boswell Wind I	WY	61393	BOSW1	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	61034	Boswell Wind Project II, LLC	IPP	Boswell Wind II	WY	61394	BOSW2	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	61035	Boswell Wind Project III, LLC	IPP	Boswell Wind III	WY	61395	BOSW3	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	61036	Boswell Wind Project IV, LLC	IPP	Boswell Wind IV	WY	61396	BOSW4	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2024	3	63465	Candela Renewables, LLC	IPP	Rough Hat	NV	63782	RH1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	3	63465	Candela Renewables, LLC	IPP	Rough Hat 2	NV	63783	RH2	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	3	63726	Renewable Energy Ventures LLC	IPP	Forest Grove - Dodd	TX	64131	ESS1	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.2
2024	4	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP001	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	5	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP002	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	5	63720	Ocean Wind, LLC	IPP	Ocean Wind	NJ	64082	OCW01	1,100.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	1,100.0
2024	6	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP003	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	6	63576	MEC North	IPP	MEC North	MI	63911	MECN	500.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	500.0
2024	6	63577	MEC South	IPP	MEC South	MI	63912	MECS	500.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	500.0
2024	10	5416	Duke Energy Carolinas, LLC	Electric Utility	Lincoln Combustion	NC	7277	17	517.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	536.4
2024	12	60799	33UI 8me LLC	IPP	Gale 1 Solar	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2024	12	15399	Avangrid Renewables LLC	IPP	Lund Hill	WA	61045	WT1	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2024	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2024	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2024	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-C	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2025	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCA1	261.2	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	280.5
2025	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2025	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2025	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-1	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-2	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-3	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-4	20.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-5	20.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	PV1	0.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	0.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	STG-1	14.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	15.0
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	STOR1	8.1	Flywheels	MWH	FW	(L) Regulatory approvals pending. Not under construction	8.1
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0
2025	3	63786	Tygart LLC	IPP	Tygart Hydropower	WV	64171	1	3.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	10.0
2025	3	63786	Tygart LLC	IPP	Tygart Hydropower	WV	64171	2	3.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	10.0
2025	3	63786	Tygart LLC	IPP	Tygart Hydropower	WV	64171	3	3.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	10.0
2025	6	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	3	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	4	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	12	60600	Adams Solar, LLC	IPP	Adams Solar	NC	60949	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2025	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	350.0
2025	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	680.0
2025	12	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2025	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2025	12	61784	Rolling Upland Wind Farm LLC	IPP	Rolling Upland Wind Farm LLC	NY	62262	GEN1	60.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2025	12	60599	Washington Solar, LLC	IPP	Washington Solar	NC	60948	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2026	5	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	6	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	7	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM3	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM4	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM5	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	10	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM6	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	11	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM7	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2026	12	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM8	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	1	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM9	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	2	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM10	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	3	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM11	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	4	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM12	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	12	803	Arizona Public Service Co	Electric Utility	Cholla	AZ	113	4	380.0	Conventional Steam Coal	SUB	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2020	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	1	73.0	Conventional Steam Coal	BIT	ST
2020	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	2	70.5	Conventional Steam Coal	BIT	ST
2020	12	6452	Florida Power & Light Co	Electric Utility	Indiantown Cogeneration LP	FL	50976	GEN1	330.0	Conventional Steam Coal	BIT	ST
2020	12	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	1	40.0	Natural Gas Steam Turbine	NG	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	1	6.5	Natural Gas Fired Combined Cycle	NG	CA
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	2	6.5	Natural Gas Fired Combined Cycle	NG	CA
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	3	7.0	Natural Gas Fired Combined Cycle	NG	CA
2021	1	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2021	1	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2021	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN1	52.5	Conventional Steam Coal	BIT	ST
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN2	52.5	Conventional Steam Coal	BIT	ST
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	3A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	4A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	6	0.6	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	7	0.6	Petroleum Liquids	DFO	IC
2021	3	58210	CPI USA NC Roxboro LLC	IPP	CPI USA NC Roxboro	NC	10379	GEN1	47.0	Wood/Wood Waste Biomass	WDS	ST
2021	3	58209	CPI USA NC Southport LLC	Electric CHP	CPI USA NC Southport	NC	10378	GEN1	48.0	Wood/Wood Waste Biomass	WDS	ST
2021	3	58209	CPI USA NC Southport LLC	Electric CHP	CPI USA NC Southport	NC	10378	GEN2	48.0	Wood/Wood Waste Biomass	WDS	ST
2021	3	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	1	53.1	Conventional Steam Coal	LIG	ST
2021	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,037.9	Nuclear	NUC	ST
2021	4	55983	Luminant Generation Company LLC	IPP	Trinidad (TX)	TX	3507	6	235.0	Natural Gas Steam Turbine	NG	ST
2021	4	55983	Luminant Generation Company LLC	IPP	Trinidad (TX)	TX	3507	D1	2.0	Petroleum Liquids	DFO	IC
2021	4	55983	Luminant Generation Company LLC	IPP	Trinidad (TX)	TX	3507	D2	2.0	Petroleum Liquids	DFO	IC
2021	4	58341	McKinley Paper Co. - Washington Mill	Industrial	McKinley Paper Co. - Washington Mill	WA	58352	G-11	20.0	Wood/Wood Waste Biomass	WDS	ST
2021	5	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST1	222.5	Conventional Steam Coal	BIT	ST
2021	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	3	103.1	Natural Gas Steam Turbine	NG	ST
2021	5	19876	Virginia Electric & Power Co	Electric Utility	Possum Point	VA	3804	5	786.0	Petroleum Liquids	RFO	ST
2021	6	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	3622	0.1	Petroleum Liquids	DFO	IC
2021	6	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6033	0.3	Petroleum Liquids	DFO	IC
2021	6	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6035	0.3	Petroleum Liquids	DFO	IC
2021	6	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6046	0.3	Petroleum Liquids	DFO	IC
2021	6	12628	Chalk Point Steam, LLC	IPP	Chalk Point LLC	MD	1571	ST1	333.1	Conventional Steam Coal	BIT	ST
2021	6	12628	Chalk Point Steam, LLC	IPP	Chalk Point LLC	MD	1571	ST2	336.9	Conventional Steam Coal	BIT	ST
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	A1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B2	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B3	2.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B4	2.0	Petroleum Liquids	DFO	IC
2021	6	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8	36.0	Natural Gas Fired Combined Cycle	NG	CA
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2021	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	3	383.4	Conventional Steam Coal	SUB	ST
2021	6	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2021	6	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2021	6	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2021	6	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1367	0.6	Natural Gas Internal Combustion Engine	NG	IC
2021	6	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1391	0.6	Natural Gas Internal Combustion Engine	NG	IC
2021	6	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1392	0.6	Natural Gas Internal Combustion Engine	NG	IC
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	1	2.6	Petroleum Liquids	DFO	IC
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	2	1.1	Petroleum Liquids	DFO	IC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	6	1.8	Petroleum Liquids	DFO	IC
2021	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	1575	1.6	Conventional Hydroelectric	WAT	HY
2021	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	500	0.5	Conventional Hydroelectric	WAT	HY
2021	9	55951	Exelon Nuclear	IPP	Byron Generating Station	IL	6023	1	1,164.0	Nuclear	NUC	ST
2021	9	55951	Exelon Nuclear	IPP	Byron Generating Station	IL	6023	2	1,136.0	Nuclear	NUC	ST
2021	11	55951	Exelon Nuclear	IPP	Dresden Generating Station	IL	869	2	902.0	Nuclear	NUC	ST
2021	11	55951	Exelon Nuclear	IPP	Dresden Generating Station	IL	869	3	895.0	Nuclear	NUC	ST
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	ST2	385.0	Conventional Steam Coal	BIT	ST
2021	12	4716	Dairyland Power Coop	Electric Utility	Genoa	WI	4143	ST3	307.5	Conventional Steam Coal	SUB	ST
2021	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	1	205.3	Conventional Steam Coal	SUB	ST
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	12.5	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.4	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	60558	Rock County Energy Center, LLC	IPP	Minwind 3-9	MN	56123	1	11.6	Onshore Wind Turbine	WND	WT
2021	12	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H4	0.5	Conventional Hydroelectric	WAT	HY
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	1	29.5	Conventional Steam Coal	LIG	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	2	74.8	Conventional Steam Coal	LIG	ST
2022	3	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L1G	2.0	Petroleum Liquids	DFO	IC
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	1	809.0	Petroleum Liquids	RFO	ST
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	2	809.0	Petroleum Liquids	RFO	ST
2022	5	5109	DTE Electric Company	Electric Utility	River Rouge	MI	1740	3	272.0	Conventional Steam Coal	SUB	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	2	154.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	3	160.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	6	311.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	7	440.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	9	495.0	Conventional Steam Coal	SUB	ST
2022	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2022	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	1	644.0	Conventional Steam Coal	RC	ST
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	2	644.0	Conventional Steam Coal	RC	ST
2022	6	11241	Entergy Louisiana LLC	Electric Utility	Sterlington	LA	1404	7A	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	771.6	Nuclear	NUC	ST
2022	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	1	211.6	Natural Gas Steam Turbine	NG	ST
2022	6	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO 1	7.8	Wood/Wood Waste Biomass	BLQ	ST
2022	6	14584	Pawtucket Power Associates LP	IPP	Pawtucket Power Associates	RI	54056	GEN1	33.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	1	340.0	Conventional Steam Coal	RC	ST
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	4	507.0	Conventional Steam Coal	RC	ST
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	1	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	2	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	3	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	9	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	1	565.7	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	2	580.5	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	4	3.0	Petroleum Liquids	DFO	IC
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	5	3.0	Petroleum Liquids	DFO	IC
2022	11	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L2G	2.0	Petroleum Liquids	DFO	IC
2022	12	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	6	77.0	Conventional Steam Coal	SUB	ST
2022	12	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	7	131.0	Conventional Steam Coal	SUB	ST
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	2	140.0	Conventional Steam Coal	BIT	ST
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	4	140.0	Conventional Steam Coal	BIT	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	76.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	2	76.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2022	12	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	12	49756	Illinois Power Resources Generating LLC	IPP	E D Edwards	IL	856	2	245.0	Conventional Steam Coal	SUB	ST
2022	12	49756	Illinois Power Resources Generating LLC	IPP	E D Edwards	IL	856	3	315.0	Conventional Steam Coal	SUB	ST
2022	12	9417	Interstate Power and Light Co	Electric Utility	Lansing	IA	1047	4	247.8	Conventional Steam Coal	SUB	ST
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	1	325.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	1	118.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	2	118.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	3	260.0	Conventional Steam Coal	SUB	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	4	334.0	Conventional Steam Coal	SUB	ST
2022	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	5	413.6	Conventional Steam Coal	SUB	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	1	57301	Orchard Mesa Irrigation District	Electric Utility	Grand Valley Project Power Plant	CO	473	1	1.5	Conventional Hydroelectric	WAT	HY
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	1	1.1	Petroleum Liquids	DFO	IC
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	2	0.8	Petroleum Liquids	DFO	IC
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	3	1.0	Petroleum Liquids	DFO	IC
2023	1	17698	Southwestern Electric Power Co	Electric Utility	Pirkey	TX	7902	1	675.0	Conventional Steam Coal	LIG	ST
2023	1	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	5	336.0	Conventional Steam Coal	BIT	ST
2023	1	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	6	670.0	Conventional Steam Coal	BIT	ST
2023	1	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	3	790.0	Petroleum Liquids	RFO	ST
2023	3	50129	Georgia-Pacific Cons Op LLC Port Hudson	Industrial	Georgia-Pacific Port Hudson	LA	10612	GEN2	60.0	Natural Gas Steam Turbine	NG	ST
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	STM	28.0	Natural Gas Fired Combined Cycle	NG	CA
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	1A	127.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	1B	127.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2A	126.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2B	126.5	Conventional Steam Coal	SUB	ST
2023	5	9267	Hoosier Energy R E C, Inc	Electric Utility	Merom	IN	6213	1	497.0	Conventional Steam Coal	BIT	ST
2023	5	9267	Hoosier Energy R E C, Inc	Electric Utility	Merom	IN	6213	2	494.0	Conventional Steam Coal	BIT	ST
2023	5	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST2	421.8	Conventional Steam Coal	BIT	ST
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-1	35.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-2	34.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-3	36.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-4	35.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-1	34.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-2	35.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-3	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-4	36.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-1	31.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-2	33.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-3	34.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-4	33.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	18488	City of Taunton	Electric Utility	Cleary Flood Hybrid	MA	1682	8	26.0	Petroleum Liquids	RFO	ST
2023	6	12685	Entergy Mississippi LLC	Electric Utility	Baxter Wilson	MS	2050	1	494.3	Natural Gas Steam Turbine	NG	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	14	431.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	15	472.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	17	361.0	Conventional Steam Coal	BIT	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	18	361.0	Conventional Steam Coal	BIT	ST
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2023	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2023	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2023	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2023	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2023	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2023	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	3	177.7	Conventional Steam Coal	BIT	ST
2023	12	15908	GenOn California South, LP	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2023	12	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Laverne Battery	MN	58579	1	1.0	Batteries	MWH	BA
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	163.0	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	1	327	Air Liquide Large Industries U S LP	Industrial	Geismar Cogen	LA	56787	GTG	72.5	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	1	4.7	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	2	4.8	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	3	11.0	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	4	11.9	Petroleum Liquids	RFO	ST
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	73	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	74	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	81	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	82	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	83	64.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	84	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	870.0	Conventional Steam Coal	BIT	ST
2024	3	14932	US Operating Services Company	Electric CHP	Chambers Cogeneration LP	NJ	10566	GEN1	244.0	Conventional Steam Coal	BIT	ST
2024	6	11241	Entergy Louisiana LLC	Electric Utility	Waterford 1 & 2	LA	8056	2	417.3	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	11	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	1	217.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	2	230.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	3	412.0	Natural Gas Steam Turbine	NG	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	1	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	2	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	3	258.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	4	257.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	5	259.0	Conventional Steam Coal	BIT	ST
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	1	16.7	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	111.8	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	ST
2024	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	1	17568	Cooperative Energy	Electric Utility	Moselle	MS	2070	3	59.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	1	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	2	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	3	273.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	4	552.0	Natural Gas Steam Turbine	NG	ST
2025	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	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	1	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	2	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	3	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	10wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	11wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	12wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	13WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	14wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	15WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	16WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	17WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	1WT	0.6	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	2WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	3WT	0.2	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	4WT	0.5	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	5WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	6WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	7WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	8WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	9wt	0.1	Onshore Wind Turbine	WND	WT
2025	6	814	Entergy Arkansas LLC	Electric Utility	Lake Catherine	AR	170	4	522.0	Natural Gas Steam Turbine	NG	ST
2025	7	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	7	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	8	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST
2025	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	5517	Dynegy Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	889	1	576.0	Conventional Steam Coal	RC	ST
2025	12	5517	Dynegy Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	889	2	581.0	Conventional Steam Coal	RC	ST
2025	12	5517	Dynegy Midwest Generation Inc	IPP	Baldwin Energy Complex	IL	889	3	621.0	Conventional Steam Coal	RC	ST
2025	12	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	1	158.0	Conventional Steam Coal	RC	ST
2025	12	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	2	158.0	Conventional Steam Coal	RC	ST
2025	12	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	3	158.0	Conventional Steam Coal	RC	ST
2025	12	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	4	158.0	Conventional Steam Coal	RC	ST
2025	12	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	5	158.0	Conventional Steam Coal	RC	ST
2025	12	5748	Electric Energy Inc	IPP	Joppa Steam	IL	887	6	158.0	Conventional Steam Coal	RC	ST
2025	12	9417	Interstate Power and Light Co	Electric Utility	Prairie Creek	IA	1073	1	2.9	Conventional Steam Coal	SUB	ST
2025	12	9417	Interstate Power and Light Co	Electric Utility	Prairie Creek	IA	1073	3	25.8	Conventional Steam Coal	SUB	ST
2025	12	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	51.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	Conventional Steam Coal	SUB	ST
2025	12	17698	Southwestern Electric Power Co	Electric Utility	Arsenal Hill	LA	1416	5	110.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	RC	ST
2025	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	1	427.0	Conventional Steam Coal	SUB	ST
2026	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	2	415.0	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	3	359.0	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	4	512.5	Natural Gas Steam Turbine	NG	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	12.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	13.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	5.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	10	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT1	17.5	Natural Gas Fired Combustion Turbine	NG	GT
2026	10	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT2	17.5	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5416	Duke Energy Carolinas, LLC	Electric Utility	James E. Rogers Energy Complex	NC	2721	5	544.0	Conventional Steam Coal	BIT	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	95.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	89.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	56997	Marina Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT1	0.8	Solar Photovoltaic	SUN	PV
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	1	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	2	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	3	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	5	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	6	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	7	1.8	Petroleum Liquids	DFO	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	8	1.8	Petroleum Liquids	DFO	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	2	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fruita	CO	471	1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	6	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2027	1	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	3	220.0	Conventional Steam Coal	SUB	ST
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HH	0.5	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HI	0.4	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HJC	0.2	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	UNIT1	2.7	Solar Photovoltaic	SUN	PV
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED01	150.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED02	150.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED03	150.0	Natural Gas Fired Combined Cycle	NG	CA
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	1	900.0	Conventional Steam Coal	BIT	ST
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	2	900.0	Conventional Steam Coal	BIT	ST
2027	12	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	59920	Dynegy W H Zimmer	IPP	W H Zimmer	OH	6019	ST1	1,305.0	Conventional Steam Coal	BIT	ST
2027	12	520	Illinois Power Generating Co	IPP	Newton	IL	6017	1	595.0	Conventional Steam Coal	RC	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	8	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	4	310.0	Natural Gas Steam Turbine	NG	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Hayden	CO	525	2	262.0	Conventional Steam Coal	BIT	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	2	0.6	Conventional Hydroelectric	WAT	HY
2027	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	4	190.0	Natural Gas Steam Turbine	NG	ST
2027	12	59919	Vistra Energy Miami Fort	IPP	Miami Fort	OH	2832	7	510.0	Conventional Steam Coal	BIT	ST
2027	12	59919	Vistra Energy Miami Fort	IPP	Miami Fort	OH	2832	8	510.0	Conventional Steam Coal	BIT	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	528.0	Conventional Steam Coal	SUB	ST
2028	1	17698	Southwestern Electric Power Co	Electric Utility	Welsh	TX	6139	3	528.0	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	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	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	2	410.0	Natural Gas Steam Turbine	NG	ST
2028	12	61944	GSRP	IPP	ACCC Mays Landing	NJ	60802	PV1	1.4	Solar Photovoltaic	SUN	PV
2028	12	61944	GSRP	IPP	IFF Hazlet	NJ	60709	GRND	3.0	Solar Photovoltaic	SUN	PV
2028	12	9324	Indiana Michigan Power Co	Electric Utility	Rockport	IN	6166	1	1,300.0	Conventional Steam Coal	SUB	ST
2028	12	15466	Public Service Co of Colorado	Electric Utility	Hayden	CO	525	1	179.0	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	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	3	448.0	Conventional Steam Coal	SUB	ST
2028	12	19436	Union Electric Co - (MO)	Electric Utility	Sioux	MO	2107	1	487.0	Conventional Steam Coal	RC	ST
2028	12	19436	Union Electric Co - (MO)	Electric Utility	Sioux	MO	2107	2	487.0	Conventional Steam Coal	RC	ST
2029	5	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST1	635.0	Conventional Steam Coal	RC	ST
2029	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	3	517.4	Natural Gas Steam Turbine	NG	ST
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	73.5	Onshore Wind Turbine	WND	WT
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	1	831.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	2	858.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	3	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	31	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	32	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	33	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	34	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	4	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	41	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	42	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	43	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	44	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	51	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	52	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	53	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	54	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	55	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	56	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	5	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST2	635.0	Conventional Steam Coal	RC	ST
2030	12	3989	City of Colorado Springs - (CO)	Electric Utility	Ray D Nixon	CO	8219	1	208.0	Conventional Steam Coal	SUB	ST
2030	12	40230	Deseret Generation & Tran Coop	Electric Utility	Bonanza	UT	7790	1	458.0	Conventional Steam Coal	BIT	ST
2030	12	5701	El Paso Electric Co	Electric Utility	Copper	TX	9	1	63.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	12	15143	Platte River Power Authority	Electric Utility	Rawhide	CO	6761	1	280.0	Conventional Steam Coal	SUB	ST
2030	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	3	244.0	Natural Gas Steam Turbine	NG	ST
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2031	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	6(4)	729.5	Natural Gas Steam Turbine	NG	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	4	770.0	Conventional Steam Coal	SUB	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	5	770.0	Conventional Steam Coal	SUB	ST
2031	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	1	243.0	Natural Gas Steam Turbine	NG	ST
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	1	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	2	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO1	380.0	Conventional Steam Coal	RC	ST
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO2	382.0	Conventional Steam Coal	RC	ST
2033	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	5	743.8	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	1	249.0	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	2	254.0	Natural Gas Steam Turbine	NG	ST
2034	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Marshall (NC)	NC	2727	1	370.0	Conventional Steam Coal	BIT	ST
2034	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Marshall (NC)	NC	2727	2	370.0	Conventional Steam Coal	BIT	ST
2034	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	3	876.0	Conventional Steam Coal	SUB	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	2	243.0	Natural Gas Steam Turbine	NG	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Quay County	NM	58125	1	17.0	Petroleum Liquids	DFO	GT
2035	6	12685	Entergy Mississippi LLC	Electric Utility	Gerald Andrus	MS	8054	1	727.5	Natural Gas Steam Turbine	NG	ST
2036	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	1	339.0	Conventional Steam Coal	SUB	ST
2037	11	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	1	532.0	Conventional Steam Coal	SUB	ST
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	2	535.0	Conventional Steam Coal	SUB	ST
2038	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	2	339.0	Conventional Steam Coal	SUB	ST
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	4	172.0	Natural Gas Fired Combined Cycle	NG	CA
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	41	165.0	Natural Gas Fired Combined Cycle	NG	CT
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	42	165.0	Natural Gas Fired Combined Cycle	NG	CT
2039	12	19436	Union Electric Co - (MO)	Electric Utility	Rush Island	MO	6155	1	589.0	Conventional Steam Coal	RC	ST
2039	12	19436	Union Electric Co - (MO)	Electric Utility	Rush Island	MO	6155	2	589.0	Conventional Steam Coal	RC	ST
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	3	106.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	4	103.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	3	340.0	Conventional Steam Coal	SUB	ST
2043	12	57170	EDF Renewable Asset Holdings, Inc.	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	5	664.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	6	663.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	7	577.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	8	610.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2045	1	58365	Petra Nova Power I LLC	IPP	W.A. Parish Carbon Capture Plant	TX	58378	GT2	74.0	Natural Gas Fired Combustion Turbine	NG	GT
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2049	4	61612	Panda Solar NC 1, LLC	IPP	Panda Solar NC 1, LLC	NC	62089	20002	1.0	Solar Photovoltaic	SUN	PV
2049	4	61655	Panda Solar NC 2, LLC	IPP	Panda Solar NC 2, LLC	NC	62120	20003	2.0	Solar Photovoltaic	SUN	PV
2049	6	61663	Panda Solar NC 10, LLC	IPP	Panda Solar NC 10, LLC	NC	62128	20031	2.0	Solar Photovoltaic	SUN	PV
2049	6	61664	Panda Solar NC 11, LLC	IPP	Panda Solar NC 11, LLC	NC	62129	20032	2.0	Solar Photovoltaic	SUN	PV
2049	6	61656	Panda Solar NC 3, LLC	IPP	Panda Solar NC 3, LLC	NC	62121	20011	2.0	Solar Photovoltaic	SUN	PV
2049	6	61658	Panda Solar NC 5, LLC	IPP	Panda Solar NC 5, LLC	NC	62123	20007	1.0	Solar Photovoltaic	SUN	PV
2049	6	61660	Panda Solar NC 6, LLC	IPP	Panda Solar NC 6, LLC	NC	62124	20028	1.0	Solar Photovoltaic	SUN	PV
2049	6	61662	Panda Solar NC 9, LLC	IPP	Panda Solar NC 9, LLC	NC	62127	20022	2.0	Solar Photovoltaic	SUN	PV
2049	9	61661	Panda Solar NC 8, LLC	IPP	Panda Solar NC 8, LLC	NC	62126	20052	2.0	Solar Photovoltaic	SUN	PV
2056	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	3	166.0	Natural Gas Fired Combustion Turbine	NG	GT
2058	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	4	168.0	Natural Gas Fired Combustion Turbine	NG	GT

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

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

Year/Month	Coal		Natural Gas								Petroleum					
			Combined Cycle		Gas Turbine		Steam Turbine		Internal Combustion		Steam Turbine		Gas Turbine		Internal Combustion	
	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor
Annual Data																
2010	313,393.9	67.1%	202,404.4	44.3%	116,426.0	7.8%	80,233.7	11.1%	2,543.0	6.5%	29,871.2	13.6%	19,565.5	2.0%	5,016.0	2.1%
2011	314,056.1	62.8%	210,518.7	44.3%	119,144.1	7.9%	78,898.6	11.7%	2,822.5	8.4%	26,683.0	12.6%	18,397.7	1.3%	4,986.0	2.2%
2012	304,974.9	56.2%	217,938.2	52.2%	119,319.4	8.9%	74,200.2	13.3%	2,988.8	7.3%	22,483.7	13.7%	17,773.5	1.3%	4,942.5	2.0%
2013	302,604.4	59.4%	219,902.9	48.8%	123,025.6	8.3%	75,810.5	11.2%	2,996.2	8.8%	20,022.9	12.6%	17,224.1	0.9%	4,999.4	2.1%
2014	299,064.7	60.5%	224,183.2	48.6%	124,736.9	8.3%	75,049.1	10.3%	3,026.7	10.8%	18,057.0	13.0%	16,791.5	1.2%	5,011.3	2.1%
2015	286,082.7	54.3%	231,467.5	55.8%	123,444.3	9.8%	80,348.0	11.3%	3,507.8	11.9%	14,965.4	14.0%	16,122.8	1.3%	5,075.2	2.1%
2016	269,477.1	52.8%	236,442.8	55.4%	125,148.4	11.0%	81,225.1	12.3%	3,684.3	11.5%	13,993.7	12.2%	15,114.0	1.3%	5,082.8	2.3%
2017	259,930.2	53.1%	242,839.1	51.2%	125,806.6	9.6%	79,149.4	10.7%	4,225.5	11.6%	13,290.9	13.7%	14,275.3	1.0%	5,153.3	2.1%
2018	246,866.8	53.6%	254,403.3	55.0%	126,763.4	11.9%	76,177.8	12.6%	4,446.6	13.0%	13,300.1	14.2%	14,234.9	1.3%	5,289.7	1.9%
2019	235,089.3	47.5%	266,846.5	57.3%	128,832.5	11.3%	72,797.3	14.1%	4,848.3	15.3%	11,214.7	12.8%	14,009.7	1.0%	5,287.8	2.0%
Year 2018																
January	251,730.8	64.0%	247,709.0	51.4%	126,362.3	11.7%	78,615.1	10.9%	4,280.9	11.8%	13,440.4	19.9%	14,336.6	3.5%	5,330.8	2.5%
February	250,522.8	49.1%	247,709.0	51.6%	126,189.1	9.3%	78,185.1	5.8%	4,292.9	12.0%	13,440.4	12.1%	14,336.6	0.8%	5,333.5	1.8%
March	249,781.8	43.8%	247,709.0	49.1%	126,170.5	10.3%	77,411.2	7.5%	4,288.5	11.9%	13,440.4	10.9%	14,336.6	0.9%	5,326.9	1.8%
April	248,603.8	41.5%	248,199.0	45.6%	126,338.5	10.5%	77,369.9	8.5%	4,372.4	10.9%	13,440.4	12.9%	14,336.6	1.0%	5,317.8	2.0%
May	248,603.8	46.7%	252,604.7	49.8%	126,690.5	11.3%	76,359.3	15.3%	4,372.4	12.0%	13,440.4	10.0%	14,336.6	1.1%	5,319.2	1.8%
June	245,407.8	58.0%	255,100.3	58.7%	126,881.1	12.4%	75,658.1	16.3%	4,362.4	13.1%	13,440.4	15.0%	14,166.6	1.4%	5,275.1	1.8%
July	245,407.8	63.8%	256,721.3	69.8%	126,878.6	16.3%	75,658.1	23.3%	4,369.0	18.3%	13,440.4	16.6%	14,166.6	1.5%	5,276.5	1.8%
August	245,407.8	63.6%	257,487.3	69.3%	127,267.4	15.0%	75,658.1	20.3%	4,594.6	16.9%	13,440.4	15.6%	14,166.6	1.3%	5,277.8	2.1%
Sept	245,113.4	55.3%	258,463.3	63.2%	127,146.3	13.8%	75,650.6	15.6%	4,594.3	13.8%	13,440.4	16.9%	14,166.6	1.3%	5,274.0	2.0%
October	244,837.5	48.5%	258,836.7	52.9%	127,104.0	11.6%	75,120.6	12.6%	4,595.0	12.4%	13,440.4	13.7%	14,166.6	1.1%	5,269.0	2.0%
November	244,426.5	53.2%	260,948.0	48.8%	126,977.7	10.5%	74,758.6	8.7%	4,613.6	11.7%	13,440.4	13.4%	14,154.6	1.1%	5,240.4	1.8%
December	242,785.6	55.9%	260,868.5	48.9%	127,108.3	9.1%	73,841.6	6.3%	4,613.6	11.0%	11,788.4	12.6%	14,154.6	1.0%	5,237.9	1.7%
Year 2019																
January	241,507.5	56.6%	261,918.1	54.6%	128,218.2	9.6%	73,728.3	8.4%	4,620.8	12.9%	11,347.1	12.8%	14,037.5	1.4%	5,285.8	2.0%
February	239,252.5	50.4%	261,918.1	55.8%	128,218.2	9.9%	73,730.3	6.9%	4,695.3	14.2%	11,347.1	12.5%	14,037.5	0.9%	5,287.8	1.9%
March	238,021.5	45.0%	261,601.1	51.0%	128,164.0	9.3%	73,188.3	9.3%	4,695.3	12.8%	11,347.1	11.8%	14,018.5	0.6%	5,287.4	1.7%
April	236,625.1	35.7%	264,436.4	45.8%	128,276.4	9.7%	73,191.0	10.9%	4,878.7	12.5%	11,201.1	10.9%	14,018.5	0.8%	5,283.2	1.7%
May	235,815.1	41.7%	265,631.1	49.2%	128,705.3	10.2%	73,191.0	13.7%	4,881.2	12.4%	11,201.1	16.4%	14,018.5	1.0%	5,290.0	1.9%
June	235,767.5	46.9%	268,823.5	59.9%	128,828.7	11.2%	72,899.9	16.7%	4,881.2	14.4%	11,201.1	15.6%	14,008.2	1.1%	5,289.2	1.9%
July	234,785.0	58.3%	269,658.1	70.5%	129,173.4	15.0%	72,853.9	24.9%	4,903.2	20.1%	11,201.1	17.5%	14,008.2	1.1%	5,293.9	2.1%
August	234,785.0	54.6%	269,658.1	71.6%	129,318.4	14.9%	72,853.9	26.1%	4,903.2	20.4%	11,201.1	16.7%	14,002.5	1.3%	5,292.1	2.2%
Sept	233,847.0	51.4%	269,658.1	64.2%	129,278.4	12.9%	72,853.9	19.8%	4,903.2	17.4%	11,134.1	14.4%	14,002.5	1.2%	5,292.6	2.4%
October	233,086.4	39.3%	269,110.5	54.5%	129,348.4	11.6%	72,211.9	14.6%	4,903.2	15.5%	11,134.1	8.8%	14,002.5	1.2%	5,292.1	2.3%
November	229,164.4	46.0%	269,670.1	52.2%	129,314.4	10.9%	72,038.9	8.7%	4,903.2	16.1%	11,134.1	7.6%	14,002.5	0.8%	5,292.9	2.0%
December	228,657.4	43.3%	269,766.0	57.4%	129,098.3	10.2%	70,909.4	8.4%	5,001.6	14.1%	11,134.1	8.6%	13,962.5	0.8%	5,267.4	2.1%
Year 2020																
January	226,644.4	39.1%	270,483.6	58.4%	129,100.1	8.9%	70,909.4	9.4%	4,929.1	10.9%	11,134.1	11.0%	13,962.5	1.0%	5,268.6	1.8%
February	226,601.9	36.4%	270,626.6	58.8%	129,186.5	9.2%	70,909.4	9.4%	5,019.5	11.4%	11,134.1	8.9%	13,938.5	0.8%	5,268.6	1.8%
March	225,736.5	30.9%	271,907.9	52.2%	129,114.4	9.7%	70,885.6	10.9%	5,023.9	13.1%	11,134.1	13.6%	13,706.5	0.8%	5,268.6	1.6%
April	225,756.5	25.5%	272,907.9	47.3%	129,111.6	8.0%	70,885.6	10.2%	5,119.1	10.8%	11,134.1	12.8%	13,706.5	0.6%	5,268.6	1.5%
May	224,526.7	28.5%	274,174.1	48.2%	129,099.6	9.0%	70,753.6	12.0%	5,157.5	11.3%	11,134.1	11.2%	13,706.5	0.8%	5,268.6	1.4%
June	223,559.6	41.4%	275,920.1	59.6%	129,036.0	13.7%	70,753.6	17.7%	5,150.2	15.1%	11,134.1	16.1%	13,706.5	1.7%	5,268.6	1.7%
July	223,559.6	55.2%	275,920.1	70.8%	129,122.0	22.4%	70,735.8	28.0%	5,150.2	21.4%	11,134.1	17.0%	13,706.5	3.5%	5,268.9	2.2%
August	223,040.6	56.0%	275,934.2	69.1%	129,214.8	17.1%	70,735.8	23.4%	5,150.2	20.6%	11,134.1	16.7%	13,706.5	2.2%	5,273.9	1.8%
Sept	222,390.6	43.6%	275,976.5	60.1%	129,214.8	11.5%	70,735.8	16.1%	5,150.2	15.4%	11,134.1	12.8%	13,706.5	0.9%	5,273.9	2.1%
October	221,251.6	37.3%	275,994.2	53.1%	129,133.5	12.1%	70,892.8	15.1%	5,153.4	15.7%	11,134.1	11.4%	13,682.5	1.2%	5,273.9	2.2%
November	220,860.1	39.0%	276,007.8	47.3%	129,134.5	9.0%	71,022.6	9.3%	5,157.2	11.6%	11,134.1	14.4%	13,679.8	0.8%	5,273.9	1.5%

Values for 2019 and prior years are final. Values for 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Year/Month	Geothermal		Hydroelectric		Nuclear		Other Biomass		Other Gas		Solar				Wind		Wood	
											Photovoltaic		Thermal					
	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor
Annual Data																		
2010	2,392.1	71.6%	78,810.3	37.5%	101,167.4	91.1%	4,298.7	64.2%	1,929.0	50.5%	206.8	20.2%	473.0	24.5%	35,702.6	29.7%	6,991.5	61.5%
2011	2,407.9	71.5%	78,564.7	45.8%	101,265.1	89.1%	4,469.8	64.2%	1,902.7	54.1%	537.0	19.0%	485.3	23.9%	42,019.2	32.1%	7,000.3	59.6%
2012	2,531.8	68.3%	78,296.6	39.6%	101,166.0	86.6%	4,639.7	63.3%	1,802.8	59.6%	1,527.1	20.4%	476.0	23.6%	49,458.0	31.8%	7,089.1	61.3%
2013	2,509.5	71.8%	78,873.5	38.8%	99,006.8	90.8%	4,949.7	62.3%	2,171.6	55.9%	3,525.2	24.5%	552.1	17.4%	59,175.6	32.4%	7,887.9	59.0%
2014	2,513.3	72.0%	79,582.8	37.2%	98,569.3	91.7%	5,114.6	62.7%	1,994.0	54.0%	6,555.6	25.6%	1,445.3	18.3%	60,587.8	34.0%	8,319.7	60.0%
2015	2,523.0	71.9%	79,650.8	35.7%	98,614.6	92.3%	5,104.5	62.6%	2,527.7	60.8%	9,521.6	25.5%	1,697.3	21.7%	67,106.2	32.2%	9,024.5	59.3%
2016	2,516.6	71.6%	79,806.0	38.2%	99,364.8	92.3%	5,099.5	62.7%	2,458.8	64.8%	14,161.4	25.0%	1,757.9	22.1%	74,162.7	34.5%	8,979.8	58.3%
2017	2,460.4	73.2%	79,698.8	43.0%	99,619.5	92.3%	5,125.6	61.8%	2,375.8	62.8%	21,940.9	25.6%	1,757.9	21.8%	83,355.6	34.6%	8,807.5	60.2%
2018	2,391.5	76.0%	79,771.9	41.9%	99,605.2	92.5%	5,059.0	61.8%	2,543.9	65.4%	27,143.3	25.1%	1,757.9	23.6%	89,228.5	34.6%	8,760.2	60.6%
2019	2,535.2	69.6%	79,838.0	41.2%	98,836.7	93.4%	4,786.5	62.5%	2,504.1	67.4%	31,840.8	24.3%	1,758.1	21.2%	97,564.8	34.3%	8,485.0	59.0%
Year 2018																		
January	2,387.5	75.3%	79,771.8	42.2%	99,730.6	100.6%	5,108.5	62.2%	2,543.9	66.2%	25,311.1	16.3%	1,757.9	10.0%	87,552.6	38.7%	8,813.0	65.3%
February	2,403.5	78.9%	79,771.8	46.4%	99,730.6	96.7%	5,083.1	64.6%	2,543.9	66.6%	25,968.4	20.9%	1,757.9	16.1%	88,563.2	38.8%	8,813.0	62.5%
March	2,382.2	76.8%	79,785.3	43.6%	99,730.6	90.3%	5,086.1	62.0%	2,543.9	63.3%	26,067.6	24.3%	1,757.9	19.2%	88,787.7	40.1%	8,780.5	61.7%
April	2,392.2	69.0%	79,792.3	48.9%	99,730.6	82.4%	5,086.1	60.9%	2,543.9	61.6%	26,591.3	29.7%	1,757.9	24.4%	88,789.2	41.3%	8,780.5	55.6%
May	2,392.2	77.7%	79,753.3	51.3%	99,730.6	90.7%	5,083.5	59.4%	2,543.9	63.2%	26,859.7	31.8%	1,757.9	32.9%	89,086.2	36.0%	8,761.5	58.0%
June	2,392.2	75.5%	79,753.8	48.1%	99,730.6	97.1%	5,006.9	63.0%	2,543.9	64.1%	27,291.3	34.9%	1,757.9	41.7%	89,078.2	38.4%	8,775.5	61.7%
July	2,392.2	77.0%	79,751.6	42.3%	99,730.6	97.7%	5,050.2	62.3%	2,543.9	65.8%	27,451.7	31.1%	1,757.9	30.1%	89,227.2	24.7%	8,767.2	63.7%
August	2,392.2	76.8%	79,751.6	37.1%	99,730.6	97.4%	5,042.5	62.6%	2,543.9	68.7%	27,590.1	30.5%	1,757.9	32.5%	89,387.5	29.8%	8,748.7	62.2%
Sept	2,392.2	77.1%	79,751.6	33.4%	99,277.9	90.3%	5,042.5	58.3%	2,543.9	67.2%	27,674.0	27.7%	1,757.9	34.8%	89,469.5	28.6%	8,748.7	58.5%
October	2,392.2	71.5%	79,753.6	32.9%	99,277.9	80.4%	5,041.4	61.0%	2,543.9	64.3%	27,989.5	22.4%	1,757.9	20.7%	89,941.8	31.5%	8,748.7	56.5%
November	2,392.2	77.3%	79,753.6	38.1%	99,432.9	89.3%	5,039.0	62.3%	2,543.9	67.4%	28,158.3	17.3%	1,757.9	13.3%	90,282.8	33.8%	8,694.6	60.4%
December	2,387.9	79.4%	79,870.8	38.4%	99,432.9	96.9%	5,038.6	63.2%	2,543.9	67.0%	28,690.2	13.7%	1,757.9	7.0%	90,534.1	34.8%	8,694.6	61.4%
Year 2019																		
January	2,527.5	73.9%	79,881.1	41.7%	99,440.4	99.6%	4,894.7	63.2%	2,509.0	68.2%	30,238.8	15.2%	1,758.1	8.4%	94,361.8	34.3%	8,716.6	62.0%
February	2,527.5	76.1%	79,883.6	42.6%	99,440.4	96.8%	4,894.7	62.3%	2,509.0	64.8%	30,911.4	17.7%	1,758.1	10.9%	95,284.6	35.2%	8,716.6	60.7%
March	2,527.5	75.6%	79,897.2	44.3%	99,440.4	88.0%	4,796.3	61.4%	2,509.0	61.6%	31,124.1	24.1%	1,758.1	19.8%	95,776.4	35.8%	8,565.9	57.6%
April	2,535.4	68.7%	79,897.2	48.4%	99,595.4	84.5%	4,785.1	59.9%	2,514.0	62.1%	31,355.0	28.4%	1,758.1	25.5%	96,608.9	41.5%	8,553.5	52.8%
May	2,535.4	71.1%	79,874.5	53.8%	98,921.8	90.8%	4,783.7	61.5%	2,514.0	67.6%	31,466.6	29.1%	1,758.1	25.7%	96,610.5	35.6%	8,538.5	54.1%
June	2,535.4	72.8%	79,878.4	48.8%	98,921.8	96.6%	4,764.2	64.2%	2,499.2	67.5%	31,528.4	32.9%	1,758.1	35.5%	96,840.0	31.8%	8,469.0	58.2%
July	2,535.4	72.9%	79,879.9	41.9%	98,921.8	98.1%	4,765.8	63.8%	2,499.2	68.5%	31,803.5	32.4%	1,758.1	31.4%	98,084.1	30.1%	8,498.4	61.4%
August	2,535.4	73.9%	79,776.1	38.0%	98,921.8	97.7%	4,765.9	64.4%	2,499.2	68.0%	32,079.8	31.0%	1,758.1	32.0%	98,359.7	27.0%	8,498.4	62.7%
Sept	2,535.4	74.9%	79,775.9	32.3%	98,119.0	93.1%	4,754.4	62.6%	2,499.2	72.4%	32,302.5	27.4%	1,758.1	24.3%	98,668.1	34.1%	8,409.1	59.2%
October	2,535.4	60.5%	79,772.0	30.8%	98,119.0	85.0%	4,754.4	61.5%	2,499.2	64.4%	32,556.1	23.3%	1,758.1	23.0%	99,662.8	37.1%	8,305.5	57.0%
November	2,535.4	53.3%	79,772.0	35.2%	98,119.0	90.8%	4,751.2	61.5%	2,499.2	71.6%	33,001.5	17.4%	1,758.1	11.3%	99,618.3	34.7%	8,305.5	60.2%
December	2,555.4	61.5%	79,772.0	36.2%	98,119.0	100.1%	4,735.4	63.7%	2,499.2	72.2%	33,658.4	12.8%	1,758.1	5.4%	100,729.8	34.8%	8,258.5	62.7%
Year 2020																		
January	2,555.4	65.8%	79,772.7	42.8%	98,137.0	101.6%	4,740.6	64.9%	2,507.2	70.7%	35,635.8	16.8%	1,758.1	8.1%	103,480.4	36.4%	8,374.5	61.6%
February	2,555.4	70.9%	79,772.3	47.5%	98,137.0	96.6%	4,741.2	62.6%	2,507.2	70.6%	36,831.1	21.4%	1,758.1	14.5%	104,173.7	40.1%	8,383.0	61.7%
March	2,555.4	79.1%	79,772.3	39.5%	98,137.0	87.7%	4,741.2	65.9%	2,507.2	61.6%	37,240.7	22.4%	1,758.1	14.6%	104,258.8	37.5%	8,383.0	58.5%
April	2,555.4	78.2%	79,772.3	38.2%	97,120.9	83.8%	4,741.2	64.4%	2,507.2	59.9%	37,459.8	28.2%	1,758.1	24.2%	105,867.0	38.4%	8,383.0	57.3%
May	2,555.4	75.7%	79,782.3	51.5%	97,120.9	89.0%	4,724.1	63.7%	2,507.2	62.9%	38,107.8	32.2%	1,758.1	31.5%	106,147.0	35.4%	8,383.0	57.4%
June	2,555.4	74.0%	79,782.3	50.7%	97,120.9	96.1%	4,659.2	60.4%	2,507.2	62.6%	38,491.6	32.4%	1,758.1	29.7%	107,006.4	38.5%	8,383.0	57.7%
July	2,555.4	74.9%	79,784.3	46.8%	97,120.9	96.0%	4,659.2	63.7%	2,507.2	66.5%	39,695.7	33.4%	1,758.1	33.2%	107,691.4	28.0%	8,383.0	57.3%
August	2,555.4	74.7%	79,810.4	40.8%	97,120.9	95.5%	4,659.2	64.4%	2,507.2	66.7%	40,109.6	29.5%	1,758.1	28.0%	107,893.4	28.0%	8,383.0	60.0%
Sept	2,555.4	75.2%	79,810.4	33.3%	96,519.5	94.6%	4,660.8	62.4%	2,507.2	68.6%	40,809.8	25.2%	1,758.1	22.3%	108,434.2	29.3%	8,383.0	56.3%
October	2,555.4	72.0%	79,944.2	30.9%	96,559.5	82.6%	4,661.8	60.2%	2,507.2	64.0%	41,470.9	22.6%	1,758.1	19.9%	109,227.6	35.8%	8,383.0	52.8%
November	2,555.4	80.2%	79,952.8	38.3%	96,559.5	88.8%	4,675.8	61.2%	2,507.2	67.4%	41,915.5	18.6%	1,758.1	13.0%	109,544.1	42.3%	8,383.0	59.4%

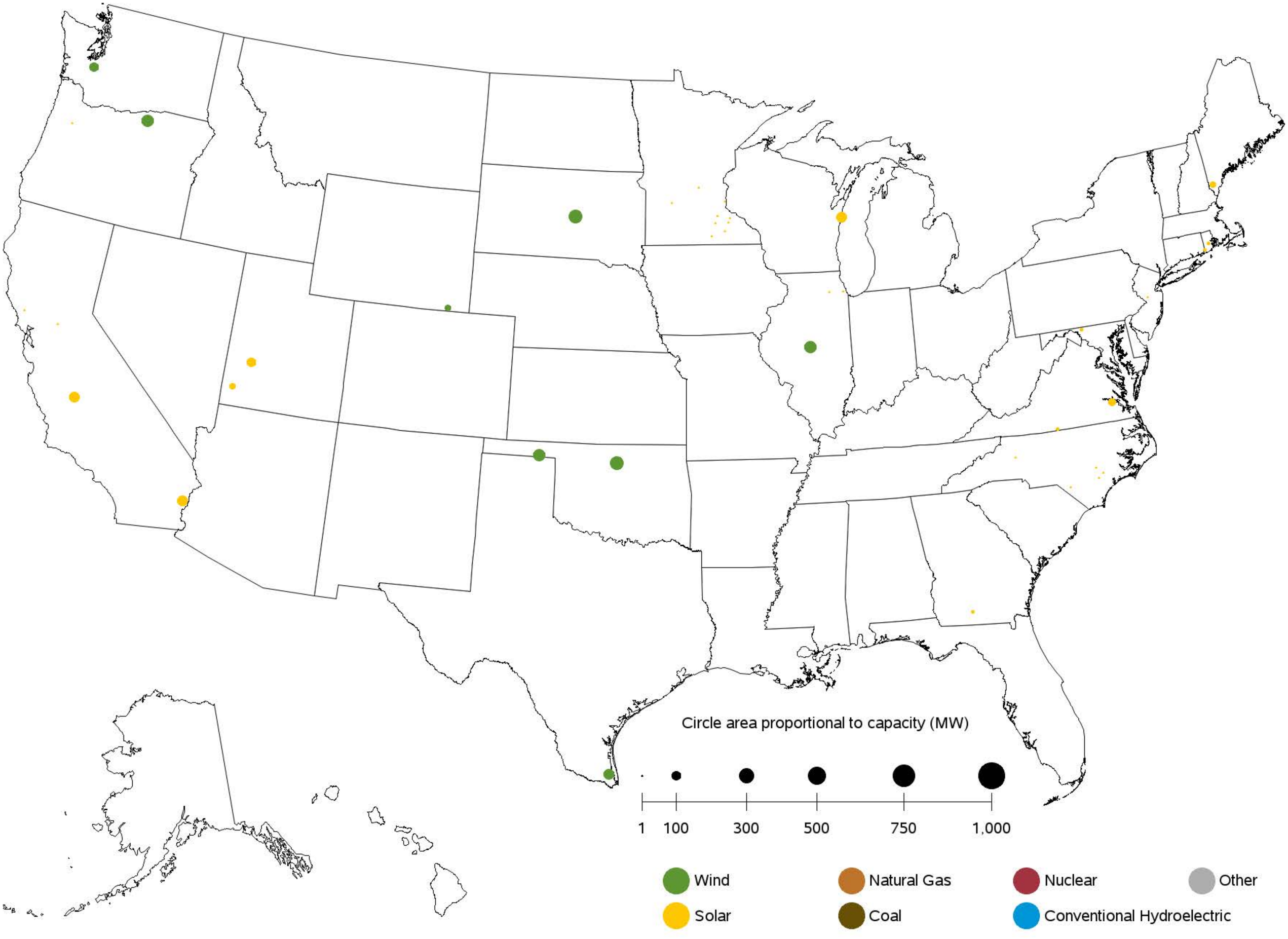
Values for 2019 and prior years are final. Values for 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

	Battery		Pumped Storage	
Year/Month	Time Adjusted Capacity	Usage Factor	Time Adjusted Capacity	Usage Factor
Annual Data				
2013	126.7	0.7%	22,389.3	9.8%
2014	155.1	1.7%	22,477.9	10.2%
2015	206.8	3.6%	22,568.9	10.2%
2016	423.0	3.8%	22,752.7	11.2%
2017	632.8	6.8%	22,791.7	11.4%
2018	713.6	5.2%	22,815.4	10.8%
2019	949.8	5.4%	22,754.7	10.4%
Year 2018				
January	643.7	5.2%	22,785.2	9.8%
February	663.5	5.1%	22,785.2	9.6%
March	667.1	5.2%	22,785.2	7.9%
April	681.1	5.0%	22,785.2	8.2%
May	690.6	5.2%	22,830.2	11.0%
June	696.1	4.9%	22,830.2	13.2%
July	742.1	5.6%	22,830.2	15.5%
August	740.1	5.6%	22,830.2	16.1%
Sept	746.4	5.6%	22,830.2	12.2%
October	748.9	5.0%	22,830.2	9.4%
November	768.9	5.3%	22,830.2	8.2%
December	770.7	5.1%	22,830.2	7.7%
Year 2019				
January	864.8	5.5%	22,721.3	9.3%
February	877.1	5.7%	22,721.3	9.2%
March	901.9	6.7%	22,721.3	8.3%
April	931.0	5.9%	22,721.3	10.2%
May	934.7	5.9%	22,721.3	11.8%
June	939.7	5.2%	22,778.3	11.7%
July	962.9	5.2%	22,778.3	15.1%
August	983.9	5.0%	22,778.3	13.7%
Sept	990.8	5.8%	22,778.3	12.4%
October	998.7	4.5%	22,778.3	8.3%
November	1,001.2	5.2%	22,778.3	7.2%
December	1,006.2	5.0%	22,778.3	7.8%
Year 2020				
January	1,008.8	4.0%	22,778.3	9.0%
February	1,024.7	4.5%	22,778.3	9.1%
March	1,032.2	4.9%	22,778.3	7.9%
April	1,047.0	4.1%	22,795.3	8.2%
May	1,056.9	3.9%	22,795.3	10.8%
June	1,060.8	4.1%	22,795.3	13.5%
July	1,064.4	4.0%	22,795.3	16.0%
August	1,317.2	3.6%	22,795.3	15.1%
Sept	1,348.9	3.8%	22,795.3	11.7%
October	1,348.9	3.7%	22,875.3	8.4%
November	1,351.1	3.9%	22,875.3	7.7%

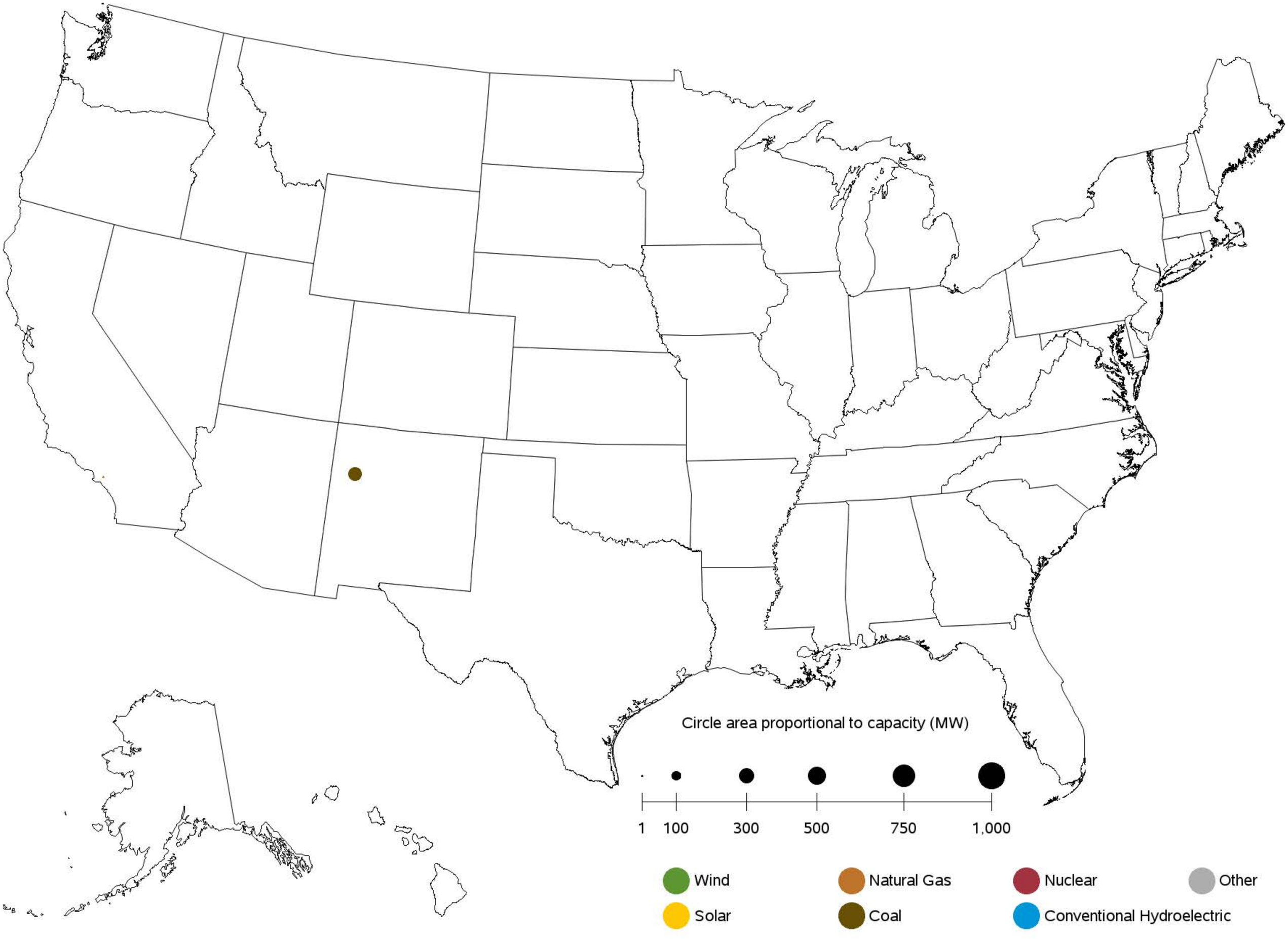
Values for 2019 and prior years are final. Values for 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Usage factors are a comparison of gross generation with available capacity. See the technical note for an explanation of how usage factors are calculated.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in November 2020



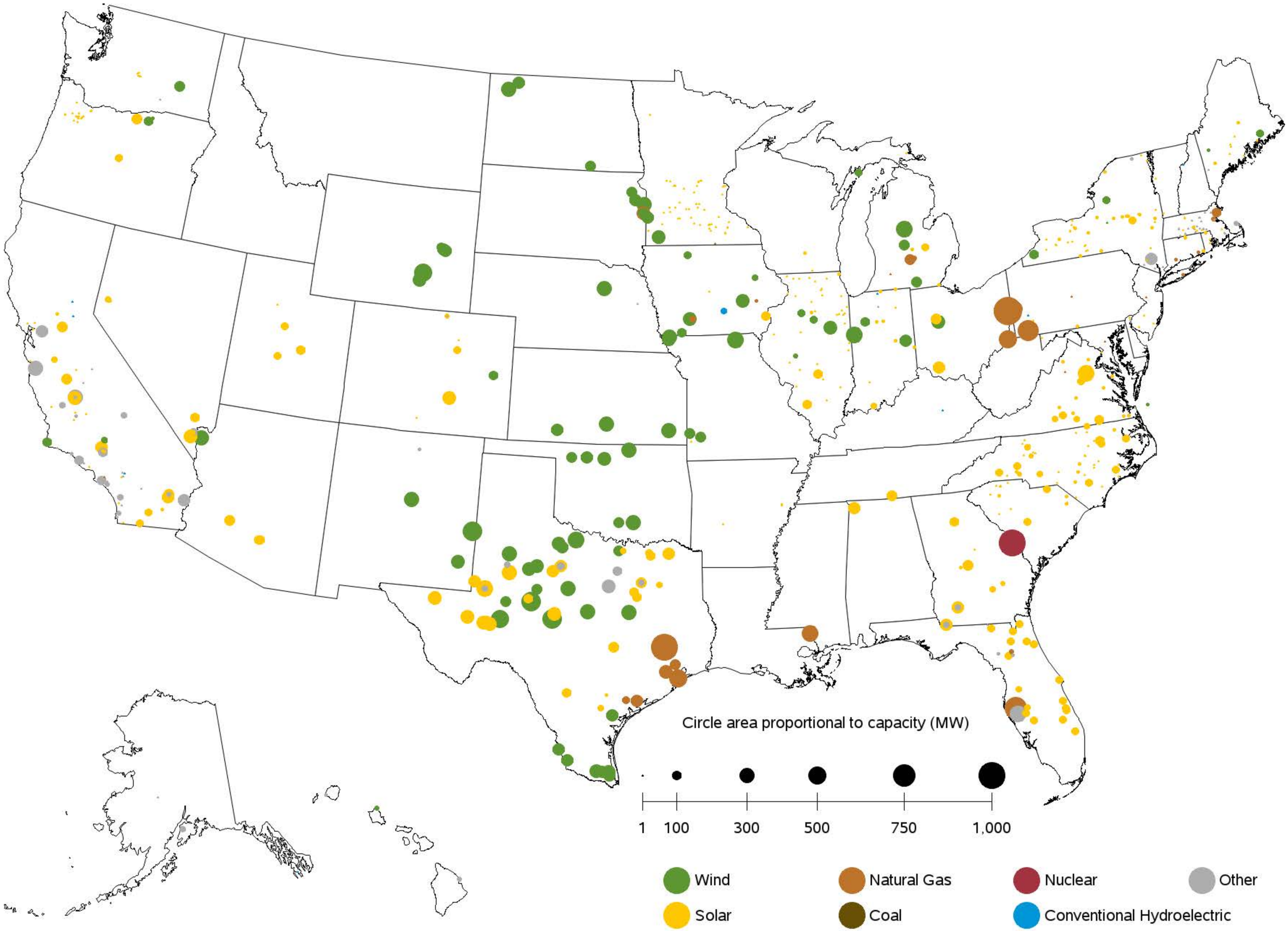
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



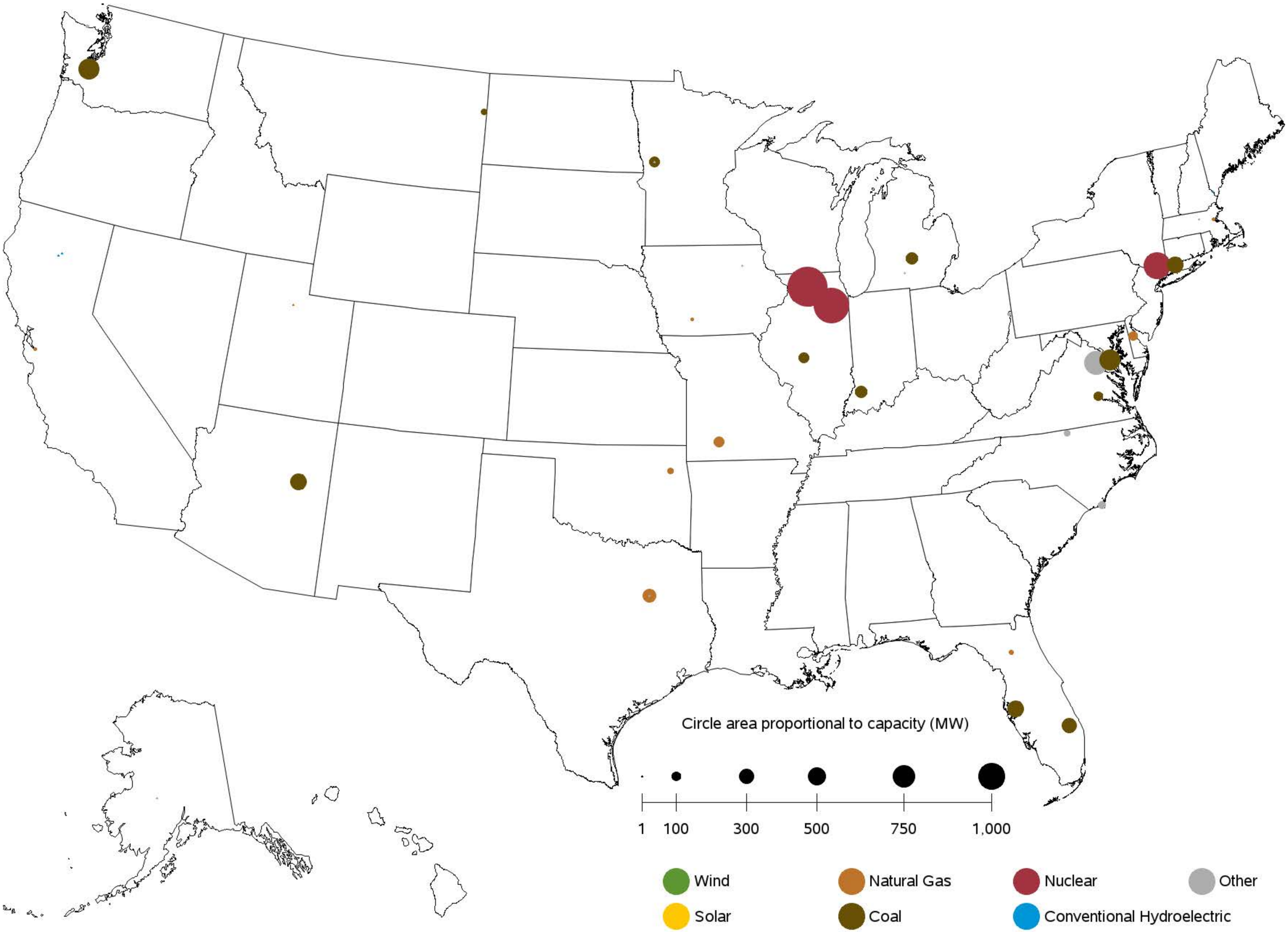
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from December 2020 to November 2021



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from December 2020 to November 2021



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

Chapter 7

Imports and Exports

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

	Canada		Mexico		U.S. Total		
Period	Imports from	Exports to	Imports from	Exports to	Imports	Exports	Net Imports
Annual Totals							
2016	65,173,818	2,682,381	7,542,445	3,531,636	72,716,263	6,214,017	66,502,246
2017	59,909,320	3,312,798	5,775,597	6,058,005	65,684,917	9,370,803	56,314,114
2018	51,494,627	7,290,070	6,765,975	6,514,422	58,260,602	13,804,492	44,456,110
2019	52,309,254	13,532,067	6,743,207	6,475,965	59,052,461	20,008,032	39,044,429
Year 2018							
January	4,738,934	680,100	485,831	459,404	5,224,765	1,139,504	4,085,261
February	4,314,276	926,822	473,386	340,682	4,787,662	1,267,504	3,520,158
March	5,045,055	707,032	553,462	488,339	5,598,517	1,195,371	4,403,146
April	4,067,648	1,134,937	461,095	486,681	4,528,743	1,621,618	2,907,125
May	4,865,120	569,954	374,033	571,444	5,239,153	1,141,398	4,097,755
June	5,002,142	534,488	491,763	680,851	5,493,905	1,215,339	4,278,566
July	4,669,081	176,762	701,543	758,502	5,370,624	935,264	4,435,360
August	5,430,607	272,018	705,309	862,128	6,135,916	1,134,146	5,001,770
Sept	3,648,158	437,073	602,500	623,925	4,250,658	1,060,998	3,189,660
October	3,097,802	455,738	620,775	428,265	3,718,577	884,003	2,834,574
November	3,163,062	878,523	649,802	406,045	3,812,864	1,284,568	2,528,296
December	3,452,742	516,623	646,476	408,156	4,099,218	924,779	3,174,439
Year 2019							
January	4,098,844	942,436	705,708	521,104	4,804,552	1,463,540	3,341,012
February	3,777,272	898,202	774,241	519,458	4,551,513	1,417,660	3,133,853
March	4,200,904	1,961,134	748,858	587,848	4,949,762	2,548,982	2,400,780
April	3,880,049	1,558,941	474,744	409,476	4,354,793	1,968,417	2,386,376
May	4,333,483	1,164,351	389,959	517,695	4,723,442	1,682,046	3,041,396
June	4,731,849	905,149	424,419	620,623	5,156,268	1,525,772	3,630,496
July	5,057,622	1,250,152	584,912	707,229	5,642,534	1,957,381	3,685,153
August	5,266,917	1,036,625	597,828	748,206	5,864,745	1,784,831	4,079,914
Sept	4,741,429	1,095,245	551,397	680,604	5,292,826	1,775,849	3,516,977
October	3,179,364	1,041,990	481,831	422,942	3,661,195	1,464,932	2,196,263
November	4,299,127	875,191	540,154	368,755	4,839,281	1,243,946	3,595,335
December	4,742,394	802,651	469,156	372,025	5,211,550	1,174,676	4,036,874
Year 2020							
January	4,227,127	1,275,526	380,376	149,763	4,607,503	1,425,289	3,182,214
February	4,145,482	1,328,868	341,262	326,366	4,486,744	1,655,234	2,831,510
March	4,731,546	898,868	363,374	418,438	5,094,920	1,317,306	3,777,614
April	4,433,870	1,112,187	253,564	363,057	4,687,434	1,475,244	3,212,190
May	4,958,324	1,043,022	217,749	472,500	5,176,073	1,515,522	3,660,551
June	4,915,670	867,147	286,111	434,614	5,201,781	1,301,761	3,900,020
July	6,280,482	740,263	367,673	480,776	6,648,155	1,221,039	5,427,116
August	6,367,384	435,787	445,831	494,764	6,813,215	930,551	5,882,664
Sept	4,217,633	503,089	476,204	450,430	4,693,837	953,519	3,740,318

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

Chapter 8

Puerto Rico

Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - November 2020 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	6,975	9,041	2,968	0	18,984
2011	6,587	8,832	2,832	0	18,251
2012	6,771	8,879	2,500	0	18,150
2013	6,320	8,969	2,504	0	17,793
2014	6,218	8,761	2,376	0	17,356
2015	6,314	8,586	2,355	0	17,255
2016	6,524	8,569	2,251	0	17,344
2017	5,045	6,820	1,747	0	13,611
2018	6,103	8,203	2,128	0	16,434
2019	6,205	7,905	2,048	0	16,158
Year 2018					
January	389	559	142	0	1,089
February	393	760	175	0	1,328
March	450	531	98	0	1,080
April	466	784	273	0	1,524
May	566	802	165	0	1,533
June	507	592	208	0	1,308
July	578	681	145	0	1,404
August	577	689	209	0	1,475
Sept	527	722	186	0	1,436
October	698	847	191	0	1,736
November	457	593	172	0	1,222
December	494	642	162	0	1,299
Year 2019					
January	447	573	154	0	1,174
February	367	487	146	0	1,000
March	448	651	180	0	1,279
April	465	681	165	0	1,311
May	512	655	189	0	1,356
June	568	693	171	0	1,431
July	618	688	181	0	1,487
August	594	719	175	0	1,488
Sept	586	713	166	0	1,464
October	587	713	196	0	1,496
November	504	678	162	0	1,343
December	509	655	165	0	1,329
Year 2020					
January	475	601	137	0	1,213
February	373	540	120	0	1,033
March	488	691	184	0	1,364
April	510	476	138	0	1,124
May	651	500	160	0	1,312
June	642	623	173	0	1,438
July	704	692	172	0	1,567
August	650	642	177	0	1,469
Sept	679	644	167	0	1,490
October	634	703	157	0	1,495
November	579	637	162	0	1,379
Year to Date					
2018	5,609	7,561	1,966	0	15,136
2019	5,696	7,250	1,883	0	14,830
2020	6,385	6,750	1,748	0	14,883
Rolling 12 Months Ending in November					
2019	6,190	7,892	2,045	0	16,128
2020	6,894	7,405	1,913	0	16,212

Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report

Table 8.2 Puerto Rico- Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - November 2020 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	1,521	2,103	564	0	4,188
2011	1,748	2,483	663	0	4,894
2012	1,690	2,605	647	0	4,942
2013	1,633	2,474	570	0	4,678
2014	1,636	2,394	551	0	4,581
2015	1,282	1,850	417	0	3,549
2016	1,170	1,677	356	0	3,203
2017	1,123	1,549	344	0	3,016
2018	1,265	1,893	405	0	3,564
2019	1,330	1,811	420	0	3,560
Year 2018					
January	86	159	32	0	277
February	76	171	32	0	279
March	110	149	22	0	281
April	84	161	54	0	300
May	104	165	23	0	292
June	108	133	40	0	281
July	122	166	29	0	317
August	114	149	39	0	302
Sept	109	162	34	0	306
October	137	181	36	0	353
November	102	142	34	0	278
December	112	154	31	0	298
Year 2019					
January	85	134	30	0	250
February	80	109	29	0	218
March	98	156	37	0	291
April	106	177	36	0	319
May	127	132	41	0	300
June	116	157	36	0	308
July	122	140	32	0	295
August	132	174	37	0	343
Sept	113	150	31	0	295
October	126	162	39	0	328
November	107	154	33	0	294
December	118	165	37	0	320
Year 2020					
January	122	180	36	0	338
February	99	161	32	0	292
March	87	143	34	0	264
April	85	79	22	0	186
May	151	118	37	0	307
June	109	119	29	0	257
July	141	145	33	0	319
August	103	124	27	0	255
Sept	116	121	28	0	266
October	97	117	23	0	237
November	111	136	30	0	277
Year to Date					
2018	1,153	1,739	374	0	3,265
2019	1,212	1,646	383	0	3,240
2020	1,223	1,443	330	0	2,996
Rolling 12 Months Ending in November					
2019	1,325	1,800	414	0	3,539
2020	1,341	1,608	367	0	3,316

Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report

Table 8.3 Puerto Rico- Number of Ultimate Customers Served by Sector: Total by End-Use Sector, 2010 - November 2020

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	1,339,703	133,029	790	0	1,473,522
2011	1,341,708	132,738	750	0	1,475,196
2012	1,349,750	131,264	721	0	1,481,735
2013	1,340,989	131,034	694	0	1,472,717
2014	1,328,546	129,122	662	0	1,458,330
2015	1,326,631	127,365	647	0	1,454,643
2016	1,332,152	127,179	633	0	1,459,964
2017	1,337,756	127,065	618	0	1,465,439
2018	1,346,102	126,527	602	0	1,473,231
2019	1,341,424	124,912	588	0	1,466,924
Year 2018					
January	1,343,369	126,955	605	0	1,470,929
February	1,342,510	126,695	606	0	1,469,811
March	1,343,914	126,640	607	0	1,471,161
April	1,344,684	126,489	606	0	1,471,779
May	1,344,960	126,396	604	0	1,471,960
June	1,344,798	126,278	604	0	1,471,680
July	1,345,450	126,221	601	0	1,472,272
August	1,346,380	126,283	598	0	1,473,261
Sept	1,347,298	126,375	599	0	1,474,272
October	1,348,855	126,492	597	0	1,475,944
November	1,349,924	126,702	595	0	1,477,221
December	1,351,082	126,800	596	0	1,478,478
Year 2019					
January	1,343,649	125,945	594	0	1,470,188
February	1,344,627	125,872	593	0	1,471,092
March	1,345,398	125,610	595	0	1,471,603
April	1,344,357	125,225	590	0	1,470,172
May	1,343,442	125,067	589	0	1,469,098
June	1,341,453	124,798	588	0	1,466,839
July	1,341,100	124,692	588	0	1,466,380
August	1,339,811	124,550	587	0	1,464,948
Sept	1,338,804	124,409	584	0	1,463,797
October	1,338,280	124,254	583	0	1,463,117
November	1,338,174	124,157	582	0	1,462,913
December	1,337,987	124,366	581	0	1,462,934
Year 2020					
January	1,340,652	124,815	588	0	1,466,055
February	1,340,005	124,751	586	0	1,465,342
March	1,339,508	124,615	584	0	1,464,707
April	1,339,991	124,604	585	0	1,465,180
May	1,340,943	124,631	585	0	1,466,159
June	1,341,826	124,641	586	0	1,467,053
July	1,343,139	124,665	587	0	1,468,391
August	1,345,267	124,772	588	0	1,470,627
Sept	1,347,448	124,977	587	0	1,473,012
October	1,348,580	125,097	586	0	1,474,263
November	1,349,585	125,198	587	0	1,475,370
Rolling 12 Months Ending in November					
2019	1,342,515	125,115	589	0	1,468,219
2020	1,342,911	124,761	586	0	1,468,258

Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report

Table 8.4 Puerto Rico- Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - November 2020 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	21.80	23.26	19.01	--	22.06
2011	26.54	28.11	23.39	--	26.82
2012	24.96	29.34	25.89	--	27.23
2013	25.84	27.59	22.77	--	26.29
2014	26.31	27.33	23.18	--	26.39
2015	20.31	21.55	17.71	--	20.57
2016	17.93	19.57	15.83	--	18.47
2017	22.26	22.72	19.70	--	22.16
2018	20.73	23.08	19.04	--	21.68
2019	21.43	22.90	20.51	--	22.03
Year 2018					
January	22.11	28.53	22.32	--	25.43
February	19.32	22.48	18.45	--	21.02
March	24.40	27.97	22.42	--	25.98
April	18.09	20.56	19.86	--	19.68
May	18.38	20.61	13.77	--	19.05
June	21.24	22.46	19.23	--	21.47
July	21.17	24.32	19.78	--	22.56
August	19.81	21.63	18.51	--	20.48
Sept	20.75	22.50	18.18	--	21.30
October	19.59	21.36	18.69	--	20.35
November	22.31	24.00	19.55	--	22.74
December	22.77	24.05	19.33	--	22.97
Year 2019					
January	19.07	23.38	19.78	--	21.27
February	21.85	22.35	20.14	--	21.84
March	21.84	24.03	20.33	--	22.74
April	22.89	25.94	21.91	--	24.35
May	24.71	20.19	21.60	--	22.09
June	20.37	22.60	21.26	--	21.56
July	19.72	20.39	17.90	--	19.80
August	22.22	24.21	21.16	--	23.06
Sept	19.36	21.02	18.93	--	20.12
October	21.50	22.80	19.96	--	21.92
November	21.15	22.74	20.65	--	21.89
December	23.13	25.19	22.62	--	24.09
Year 2020					
January	25.72	29.96	26.04	--	27.86
February	26.63	29.78	26.48	--	28.26
March	17.80	20.68	18.38	--	19.34
April	16.75	16.58	15.81	--	16.56
May	23.26	23.63	23.21	--	23.39
June	16.99	19.03	16.89	--	17.86
July	20.06	20.93	19.14	--	20.35
August	15.91	19.32	15.40	--	17.34
Sept	17.12	18.83	16.78	--	17.82
October	15.31	16.66	14.41	--	15.85
November	19.20	21.29	18.33	--	20.06
Year to Date					
2018	20.55	23.00	19.01	--	21.57
2019	21.28	22.70	20.33	--	21.85
2020	19.16	21.37	18.89	--	20.13
Rolling 12 Months Ending in November					
2019	21.40	22.81	20.25	--	21.94
2020	19.45	21.71	19.21	--	20.45

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-November 2020

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,163	0	3,049	0	0	4,764
2008	454	98	1,163	0	3,480	0	0	5,195
2009	454	98	1,163	0	3,600	0	0	5,315
2010	454	98	1,163	0	3,600	0	0	5,315
2011	454	98	1,163	0	3,600	5	0	5,320
2012	454	98	1,163	0	3,600	23	98	5,436
2013	454	98	1,163	0	3,600	26	98	5,439
2014	454	98	1,163	0	3,600	38	99	5,452
2015	454	98	1,163	9	3,604	70	99	5,497
2016	454	98	1,163	33	3,604	145	99	5,596
2017	454	98	1,163	35	3,605	145	99	5,599
2018	454	98	1,346	35	3,607	145	99	5,784
2019	454	98	1,346	35	3,607	149	99	5,788
Year 2020								
January	454	98	1,346	33	3,607	145	99	5,781
February	454	98	1,346	33	3,607	155	99	5,791
March	454	98	1,346	33	3,607	155	99	5,791
April	454	98	1,346	33	3,607	155	99	5,791
May	454	98	1,346	33	3,607	155	99	5,791
June	454	98	1,346	33	3,607	155	99	5,791
July	454	98	1,346	33	3,607	155	99	5,791
August	454	98	1,346	33	3,607	155	99	5,791
Sept	454	98	1,346	33	3,607	155	99	5,791
October	454	98	1,346	33	3,607	155	99	5,791
November	454	98	1,346	35	3,607	155	99	5,794

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, November 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**15**	**0**	**3**	**0**	**0**	**11**
Connecticut	0	57	0	2	0	0	42
Maine	0	14	0	41	0	0	16
Massachusetts	0	61	0	6	0	0	28
New Hampshire	0	13	0	0	0	0	24
Rhode Island	0	31	0	13	0	0	0
Vermont	0	420	0	0	0	0	24
Middle Atlantic	**5**	**15**	**0**	**1**	**20**	**0**	**3**
New Jersey	0	37	0	3	0	0	0
New York	0	16	0	2	0	0	2
Pennsylvania	5	18	0	1	28	0	16
East North Central	**0**	**5**	**39**	**2**	**8**	**0**	**12**
Illinois	0	19	0	13	0	0	77
Indiana	0	2	0	4	13	0	54
Michigan	2	10	0	2	0	0	21
Ohio	0	10	51	2	24	0	44
Wisconsin	0	57	0	2	0	0	16
West North Central	**1**	**8**	**0**	**7**	**0**	**0**	**7**
Iowa	1	29	0	4	0	0	29
Kansas	0	11	0	15	0	0	0
Minnesota	3	41	0	11	0	0	26
Missouri	0	9	0	15	0	0	19
Nebraska	5	96	0	52	0	0	23
North Dakota	0	6	0	33	0	0	15
South Dakota	0	94	0	99	0	0	10
South Atlantic	**2**	**6**	**20**	**1**	**0**	**0**	**8**
Delaware	0	41	0	6	0	0	0
District of Columbia	0	0	0	46	0	0	0
Florida	0	16	0	1	0	0	62
Georgia	0	23	117	2	0	0	13
Maryland	0	11	0	1	0	0	4
North Carolina	0	12	0	1	0	0	12
South Carolina	0	23	0	1	0	0	17
Virginia	0	6	0	2	0	0	20
West Virginia	4	0	0	11	0	0	22
East South Central	**0**	**3**	**0**	**1**	**120**	**0**	**5**
Alabama	0	93	0	3	513	0	7
Kentucky	0	0	0	5	0	0	10
Mississippi	0	4	0	1	0	0	0
Tennessee	0	1	0	5	0	0	9
West South Central	**0**	**11**	**0**	**1**	**4**	**0**	**9**
Arkansas	0	6	0	8	0	0	14
Louisiana	0	77	0	1	9	0	24
Oklahoma	0	1	0	3	0	0	14
Texas	0	18	0	1	3	0	23
Mountain	**1**	**9**	**0**	**1**	**5**	**0**	**5**
Arizona	0	1	0	1	0	0	5
Colorado	0	17	0	2	0	0	21
Idaho	177	0	0	13	0	0	9
Montana	7	6	0	28	0	0	8
Nevada	0	0	0	1	0	0	3
New Mexico	0	22	0	3	0	0	65
Utah	0	2	0	2	0	0	28
Wyoming	3	1	0	7	5	0	26
Pacific Contiguous	**0**	**13**	**0**	**1**	**2**	**0**	**1**
California	0	8	0	1	3	0	7
Oregon	0	151	0	4	0	0	3
Washington	0	38	0	9	0	0	1
Pacific Noncontiguous	**12**	**1**	**0**	**33**	**0**	**0**	**20**
Alaska	29	4	0	33	0	0	21
Hawaii	0	2	0	0	0	0	49
U.S. Total	**0**	**2**	**10**	**0**	**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, November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**5**	**3**	**0**	**1**	**2**
Connecticut	0	0	0	10	8	0	0	1
Maine	0	0	0	15	5	0	0	7
Massachusetts	0	0	0	6	4	0	1	4
New Hampshire	0	0	0	0	10	0	0	2
Rhode Island	0	0	0	14	11	0	0	12
Vermont	0	0	0	14	6	0	0	13
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	6	4	0	0	2
New York	0	0	0	7	4	0	2	1
Pennsylvania	0	0	0	14	5	0	0	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**2**	**1**
Illinois	0	0	0	16	2	0	0	1
Indiana	0	0	0	10	4	0	0	1
Michigan	0	0	0	15	3	0	14	1
Ohio	0	0	0	15	2	0	0	1
Wisconsin	0	0	0	7	4	0	39	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**7**	**1**
Iowa	0	0	0	46	2	0	0	2
Kansas	0	0	0	17	2	0	0	1
Minnesota	0	0	0	5	4	0	5	2
Missouri	0	0	0	16	3	0	0	1
Nebraska	0	0	0	32	3	0	0	3
North Dakota	0	0	0	0	4	0	33	2
South Dakota	0	0	0	158	3	0	0	5
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	23	18	0	0	5
District of Columbia	0	0	0	57	10	0	0	29
Florida	0	0	0	1	2	0	0	0
Georgia	0	0	0	2	2	0	0	1
Maryland	0	0	0	7	3	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	3	0	0	1
Virginia	0	0	0	3	3	0	0	1
West Virginia	0	0	0	0	0	0	0	4
East South Central	**0**	**0**	**0**	**2**	**3**	**0**	**7**	**1**
Alabama	0	0	0	5	4	0	0	1
Kentucky	0	0	0	25	15	0	0	1
Mississippi	0	0	0	1	3	0	0	1
Tennessee	0	0	0	6	8	0	55	2
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	2	5	0	0	2
Louisiana	0	0	0	2	5	0	0	1
Oklahoma	0	0	0	24	3	0	0	2
Texas	0	0	0	1	2	0	4	1
Mountain	**0**	**6**	**0**	**1**	**1**	**0**	**3**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	4	3	0	0	1
Idaho	0	29	0	7	8	0	0	6
Montana	0	0	0	0	3	0	0	4
Nevada	0	6	0	1	3	0	0	1
New Mexico	0	0	0	4	3	0	0	2
Utah	0	16	0	2	4	0	8	1
Wyoming	0	0	0	0	5	0	0	3
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**2**	**1**
California	0	3	0	1	2	0	2	1
Oregon	0	22	0	6	4	0	0	2
Washington	0	0	0	31	4	0	0	1
Pacific Noncontiguous	**0**	**59**	**0**	**6**	**11**	**0**	**0**	**5**
Alaska	0	0	0	0	34	0	0	13
Hawaii	0	59	0	6	11	0	0	2
U.S. Total	**0**	**3**	**0**	**1**	**1**	**0**	**0**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**15**	**0**	**3**	**0**	**0**	**11**
Connecticut	0	57	0	2	0	0	42
Maine	0	14	0	41	0	0	16
Massachusetts	0	61	0	6	0	0	28
New Hampshire	0	13	0	0	0	0	24
Rhode Island	0	31	0	13	0	0	0
Vermont	0	420	0	0	0	0	24
Middle Atlantic	**5**	**15**	**0**	**1**	**20**	**0**	**3**
New Jersey	0	37	0	3	0	0	0
New York	0	16	0	2	0	0	2
Pennsylvania	5	18	0	1	28	0	16
East North Central	**0**	**5**	**39**	**2**	**8**	**0**	**12**
Illinois	0	19	0	13	0	0	77
Indiana	0	2	0	4	13	0	54
Michigan	2	10	0	2	0	0	21
Ohio	0	10	51	2	24	0	44
Wisconsin	0	57	0	2	0	0	16
West North Central	**1**	**8**	**0**	**7**	**0**	**0**	**7**
Iowa	1	29	0	4	0	0	29
Kansas	0	11	0	15	0	0	0
Minnesota	3	41	0	11	0	0	26
Missouri	0	9	0	15	0	0	19
Nebraska	5	96	0	52	0	0	23
North Dakota	0	6	0	33	0	0	15
South Dakota	0	94	0	99	0	0	10
South Atlantic	**2**	**6**	**20**	**1**	**0**	**0**	**8**
Delaware	0	41	0	6	0	0	0
District of Columbia	0	0	0	46	0	0	0
Florida	0	16	0	1	0	0	62
Georgia	0	23	117	2	0	0	13
Maryland	0	11	0	1	0	0	4
North Carolina	0	12	0	1	0	0	12
South Carolina	0	23	0	1	0	0	17
Virginia	0	6	0	2	0	0	20
West Virginia	4	0	0	11	0	0	22
East South Central	**0**	**3**	**0**	**1**	**120**	**0**	**5**
Alabama	0	93	0	3	513	0	7
Kentucky	0	0	0	5	0	0	10
Mississippi	0	4	0	1	0	0	0
Tennessee	0	1	0	5	0	0	9
West South Central	**0**	**11**	**0**	**1**	**4**	**0**	**9**
Arkansas	0	6	0	8	0	0	14
Louisiana	0	77	0	1	9	0	24
Oklahoma	0	1	0	3	0	0	14
Texas	0	18	0	1	3	0	23
Mountain	**1**	**9**	**0**	**1**	**5**	**0**	**5**
Arizona	0	1	0	1	0	0	5
Colorado	0	17	0	2	0	0	21
Idaho	177	0	0	13	0	0	9
Montana	7	6	0	28	0	0	8
Nevada	0	0	0	1	0	0	3
New Mexico	0	22	0	3	0	0	65
Utah	0	2	0	2	0	0	28
Wyoming	3	1	0	7	5	0	26
Pacific Contiguous	**0**	**13**	**0**	**1**	**2**	**0**	**1**
California	0	8	0	1	3	0	7
Oregon	0	151	0	4	0	0	3
Washington	0	38	0	9	0	0	1
Pacific Noncontiguous	**12**	**1**	**0**	**33**	**0**	**0**	**20**
Alaska	29	4	0	33	0	0	21
Hawaii	0	2	0	0	0	0	49
U.S. Total	**0**	**2**	**10**	**0**	**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 November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**5**	**3**	**0**	**1**	**2**
Connecticut	0	0	0	10	8	0	0	1
Maine	0	0	0	15	5	0	0	7
Massachusetts	0	0	0	6	4	0	1	4
New Hampshire	0	0	0	0	10	0	0	2
Rhode Island	0	0	0	14	11	0	0	12
Vermont	0	0	0	14	6	0	0	13
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	6	4	0	0	2
New York	0	0	0	7	4	0	2	1
Pennsylvania	0	0	0	14	5	0	0	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**2**	**1**
Illinois	0	0	0	16	2	0	0	1
Indiana	0	0	0	10	4	0	0	1
Michigan	0	0	0	15	3	0	14	1
Ohio	0	0	0	15	2	0	0	1
Wisconsin	0	0	0	7	4	0	39	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**7**	**1**
Iowa	0	0	0	46	2	0	0	2
Kansas	0	0	0	17	2	0	0	1
Minnesota	0	0	0	5	4	0	5	2
Missouri	0	0	0	16	3	0	0	1
Nebraska	0	0	0	32	3	0	0	3
North Dakota	0	0	0	0	4	0	33	2
South Dakota	0	0	0	158	3	0	0	5
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	23	18	0	0	5
District of Columbia	0	0	0	57	10	0	0	29
Florida	0	0	0	1	2	0	0	0
Georgia	0	0	0	2	2	0	0	1
Maryland	0	0	0	7	3	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	3	3	0	0	1
Virginia	0	0	0	3	3	0	0	1
West Virginia	0	0	0	0	0	0	0	4
East South Central	**0**	**0**	**0**	**2**	**3**	**0**	**7**	**1**
Alabama	0	0	0	5	4	0	0	1
Kentucky	0	0	0	25	15	0	0	1
Mississippi	0	0	0	1	3	0	0	1
Tennessee	0	0	0	6	8	0	55	2
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	2	5	0	0	2
Louisiana	0	0	0	2	5	0	0	1
Oklahoma	0	0	0	24	3	0	0	2
Texas	0	0	0	1	2	0	4	1
Mountain	**0**	**6**	**0**	**1**	**1**	**0**	**3**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	4	3	0	0	1
Idaho	0	29	0	7	8	0	0	6
Montana	0	0	0	0	3	0	0	4
Nevada	0	6	0	1	3	0	0	1
New Mexico	0	0	0	4	3	0	0	2
Utah	0	16	0	2	4	0	8	1
Wyoming	0	0	0	0	5	0	0	3
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**2**	**1**
California	0	3	0	1	2	0	2	1
Oregon	0	22	0	6	4	0	0	2
Washington	0	0	0	31	4	0	0	1
Pacific Noncontiguous	**0**	**59**	**0**	**6**	**11**	**0**	**0**	**5**
Alaska	0	0	0	0	34	0	0	13
Hawaii	0	59	0	6	11	0	0	2
U.S. Total	**0**	**3**	**0**	**1**	**1**	**0**	**0**	**0**

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

Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, November 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	0	0	0	.	0
Massachusetts	0	0	3	.	0
New Hampshire	0	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	1	0	0	.	1
Middle Atlantic	**0**	**0**	**2**	**.**	**0**
New Jersey	0	0	3	.	0
New York	0	0	2	.	0
Pennsylvania	0	1	0	.	0
East North Central	**2**	**2**	**1**	**.**	**1**
Illinois	2	3	0	.	2
Indiana	5	2	6	.	2
Michigan	3	13	5	.	4
Ohio	5	3	0	.	2
Wisconsin	7	10	1	.	5
West North Central	**1**	**1**	**2**	**.**	**1**
Iowa	2	1	11	.	1
Kansas	3	2	0	.	2
Minnesota	2	2	1	.	2
Missouri	1	1	1	.	1
Nebraska	4	4	0	.	3
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**1**	**2**	**.**	**1**
Delaware	4	0	20	.	3
District of Columbia	0	0	0	.	0
Florida	2	5	2	.	2
Georgia	112	33	0	.	59
Maryland	1	2	2	.	1
North Carolina	4	4	0	.	3
South Carolina	4	7	0	.	3
Virginia	6	4	2	.	4
West Virginia	0	0	0	.	0
East South Central	**5**	**3**	**0**	**.**	**4**
Alabama	0	0	0	.	0
Kentucky	5	3	0	.	4
Mississippi	14	7	0	.	8
Tennessee	0	0	0	.	0
West South Central	**3**	**5**	**7**	**.**	**2**
Arkansas	11	12	8	.	6
Louisiana	3	5	26	.	3
Oklahoma	13	13	0	.	11
Texas	4	7	0	.	4
Mountain	**0**	**0**	**1**	**.**	**0**
Arizona	0	0	0	.	0
Colorado	1	1	21	.	1
Idaho	1	2	0	.	1
Montana	2	0	0	.	1
Nevada	0	0	0	.	0
New Mexico	1	1	0	.	1
Utah	0	1	0	.	0
Wyoming	1	0	0	.	1
Pacific Contiguous	**0**	**0**	**0**	**.**	**0**
California	0	0	0	.	0
Oregon	1	1	4	.	1
Washington	1	2	16	.	1
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	0	0	0	.	0
Hawaii	0	0	0	.	0
U.S. Total	**0**	**0**	**0**	**.**	**0**

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

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, November 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**65**	**0**	**58**	**0**	**0**	**27**
Connecticut	0	48	0	0	0	0	71
Maine	0	0	0	0	0	0	450
Massachusetts	0	136	0	83	0	0	63
New Hampshire	0	271	0	0	0	0	47
Rhode Island	0	0	0	0	0	0	0
Vermont	0	420	0	0	0	0	39
Middle Atlantic	**0**	**33**	**0**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	110	0	0	0
New York	0	33	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**6**	**0**	**3**	**0**	**0**	**12**
Illinois	0	64	0	21	0	0	67
Indiana	0	2	0	11	0	0	54
Michigan	2	10	0	7	0	0	21
Ohio	2	51	0	6	0	0	53
Wisconsin	0	65	0	2	0	0	17
West North Central	**1**	**8**	**0**	**7**	**0**	**0**	**7**
Iowa	0	29	0	5	0	0	30
Kansas	0	11	0	16	0	0	0
Minnesota	3	44	0	11	0	0	30
Missouri	0	9	0	18	0	0	19
Nebraska	5	96	0	52	0	0	23
North Dakota	0	6	0	34	0	0	15
South Dakota	0	94	0	99	0	0	10
South Atlantic	**0**	**7**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	19	0	1	0	0	62
Georgia	0	24	0	2	0	0	13
Maryland	0	68	0	0	0	0	0
North Carolina	0	12	0	0	0	0	12
South Carolina	0	25	0	0	0	0	17
Virginia	0	9	0	3	0	0	21
West Virginia	0	0	0	0	0	0	33
East South Central	**0**	**1**	**0**	**2**	**0**	**0**	**5**
Alabama	0	337	0	7	0	0	7
Kentucky	0	0	0	5	0	0	10
Mississippi	0	7	0	1	0	0	0
Tennessee	0	1	0	5	0	0	9
West South Central	**0**	**12**	**0**	**3**	**0**	**0**	**10**
Arkansas	0	7	0	8	0	0	14
Louisiana	0	77	0	2	0	0	0
Oklahoma	0	1	0	6	0	0	14
Texas	0	11	0	7	0	0	24
Mountain	**1**	**11**	**0**	**1**	**0**	**0**	**5**
Arizona	0	1	0	1	0	0	5
Colorado	0	17	0	2	0	0	22
Idaho	0	0	0	9	0	0	9
Montana	0	721	0	36	0	0	8
Nevada	0	0	0	1	0	0	0
New Mexico	0	22	0	4	0	0	65
Utah	0	3	0	2	0	0	28
Wyoming	3	1	0	14	0	0	26
Pacific Contiguous	**0**	**14**	**0**	**2**	**0**	**0**	**1**
California	0	11	0	1	0	0	7
Oregon	0	154	0	7	0	0	3
Washington	0	124	0	11	0	0	1
Pacific Noncontiguous	**37**	**1**	**0**	**35**	**0**	**0**	**21**
Alaska	37	4	0	35	0	0	21
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**2**

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

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

Electric Utilities by Census Division and State, November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**15**	**5**	**0**	**0**	**14**
Connecticut	0	0	0	0	0	0	0	20
Maine	0	0	0	0	0	0	0	450
Massachusetts	0	0	0	21	18	0	0	32
New Hampshire	0	0	0	0	0	0	0	38
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	8	3	0	0	18
Middle Atlantic	**0**	**0**	**0**	**23**	**23**	**0**	**0**	**2**
New Jersey	0	0	0	23	23	0	0	51
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**	**7**	**3**	**0**	**27**	**1**
Illinois	0	0	0	38	20	0	0	6
Indiana	0	0	0	14	10	0	0	2
Michigan	0	0	0	16	4	0	0	1
Ohio	0	0	0	77	102	0	0	4
Wisconsin	0	0	0	4	6	0	29	1
West North Central	**0**	**0**	**0**	**36**	**2**	**0**	**8**	**1**
Iowa	0	0	0	71	2	0	0	2
Kansas	0	0	0	159	10	0	0	1
Minnesota	0	0	0	122	9	0	0	2
Missouri	0	0	0	53	42	0	0	1
Nebraska	0	0	0	84	24	0	0	4
North Dakota	0	0	0	0	6	0	33	2
South Dakota	0	0	0	0	19	0	0	7
South Atlantic	**0**	**0**	**0**	**1**	**3**	**0**	**0**	**0**
Delaware	0	0	0	83	83	0	0	8
Florida	0	0	0	0	2	0	0	0
Georgia	0	0	0	6	6	0	0	1
Maryland	0	0	0	72	72	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	76	26	0	0	1
Virginia	0	0	0	4	10	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**23**	**17**	**0**	**0**	**1**
Alabama	0	0	0	42	42	0	0	1
Kentucky	0	0	0	26	19	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	227	227	0	0	2
West South Central	**0**	**0**	**0**	**22**	**11**	**0**	**0**	**1**
Arkansas	0	0	0	169	169	0	0	3
Louisiana	0	0	0	168	168	0	0	1
Oklahoma	0	0	0	24	11	0	0	5
Texas	0	0	0	54	42	0	0	3
Mountain	**0**	**27**	**0**	**5**	**4**	**0**	**32**	**1**
Arizona	0	0	0	7	7	0	0	0
Colorado	0	0	0	78	3	0	0	1
Idaho	0	0	0	0	36	0	0	7
Montana	0	0	0	0	31	0	0	8
Nevada	0	0	0	6	6	0	0	1
New Mexico	0	0	0	12	12	0	0	2
Utah	0	27	0	0	27	0	37	1
Wyoming	0	0	0	0	11	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**10**	**5**	**0**	**0**	**1**
California	0	0	0	10	7	0	0	2
Oregon	0	0	0	90	10	0	0	3
Washington	0	0	0	88	7	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**17**	**30**	**0**	**0**	**7**
Alaska	0	0	0	0	50	0	0	15
Hawaii	0	0	0	17	13	0	0	1
U.S. Total	**0**	**4**	**0**	**1**	**2**	**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 November 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**65**	**0**	**58**	**0**	**0**	**27**
Connecticut	0	48	0	0	0	0	71
Maine	0	0	0	0	0	0	450
Massachusetts	0	136	0	83	0	0	63
New Hampshire	0	271	0	0	0	0	47
Rhode Island	0	0	0	0	0	0	0
Vermont	0	420	0	0	0	0	39
Middle Atlantic	**0**	**33**	**0**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	110	0	0	0
New York	0	33	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**6**	**0**	**3**	**0**	**0**	**12**
Illinois	0	64	0	21	0	0	67
Indiana	0	2	0	11	0	0	54
Michigan	2	10	0	7	0	0	21
Ohio	2	51	0	6	0	0	53
Wisconsin	0	65	0	2	0	0	17
West North Central	**1**	**8**	**0**	**7**	**0**	**0**	**7**
Iowa	0	29	0	5	0	0	30
Kansas	0	11	0	16	0	0	0
Minnesota	3	44	0	11	0	0	30
Missouri	0	9	0	18	0	0	19
Nebraska	5	96	0	52	0	0	23
North Dakota	0	6	0	34	0	0	15
South Dakota	0	94	0	99	0	0	10
South Atlantic	**0**	**7**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	19	0	1	0	0	62
Georgia	0	24	0	2	0	0	13
Maryland	0	68	0	0	0	0	0
North Carolina	0	12	0	0	0	0	12
South Carolina	0	25	0	0	0	0	17
Virginia	0	9	0	3	0	0	21
West Virginia	0	0	0	0	0	0	33
East South Central	**0**	**1**	**0**	**2**	**0**	**0**	**5**
Alabama	0	337	0	7	0	0	7
Kentucky	0	0	0	5	0	0	10
Mississippi	0	7	0	1	0	0	0
Tennessee	0	1	0	5	0	0	9
West South Central	**0**	**12**	**0**	**3**	**0**	**0**	**10**
Arkansas	0	7	0	8	0	0	14
Louisiana	0	77	0	2	0	0	0
Oklahoma	0	1	0	6	0	0	14
Texas	0	11	0	7	0	0	24
Mountain	**1**	**11**	**0**	**1**	**0**	**0**	**5**
Arizona	0	1	0	1	0	0	5
Colorado	0	17	0	2	0	0	22
Idaho	0	0	0	9	0	0	9
Montana	0	721	0	36	0	0	8
Nevada	0	0	0	1	0	0	0
New Mexico	0	22	0	4	0	0	65
Utah	0	3	0	2	0	0	28
Wyoming	3	1	0	14	0	0	26
Pacific Contiguous	**0**	**14**	**0**	**2**	**0**	**0**	**1**
California	0	11	0	1	0	0	7
Oregon	0	154	0	7	0	0	3
Washington	0	124	0	11	0	0	1
Pacific Noncontiguous	**37**	**1**	**0**	**35**	**0**	**0**	**21**
Alaska	37	4	0	35	0	0	21
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**2**

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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 November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**15**	**5**	**0**	**0**	**14**
Connecticut	0	0	0	0	0	0	0	20
Maine	0	0	0	0	0	0	0	450
Massachusetts	0	0	0	21	18	0	0	32
New Hampshire	0	0	0	0	0	0	0	38
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	8	3	0	0	18
Middle Atlantic	**0**	**0**	**0**	**23**	**23**	**0**	**0**	**2**
New Jersey	0	0	0	23	23	0	0	51
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**	**7**	**3**	**0**	**27**	**1**
Illinois	0	0	0	38	20	0	0	6
Indiana	0	0	0	14	10	0	0	2
Michigan	0	0	0	16	4	0	0	1
Ohio	0	0	0	77	102	0	0	4
Wisconsin	0	0	0	4	6	0	29	1
West North Central	**0**	**0**	**0**	**36**	**2**	**0**	**8**	**1**
Iowa	0	0	0	71	2	0	0	2
Kansas	0	0	0	159	10	0	0	1
Minnesota	0	0	0	122	9	0	0	2
Missouri	0	0	0	53	42	0	0	1
Nebraska	0	0	0	84	24	0	0	4
North Dakota	0	0	0	0	6	0	33	2
South Dakota	0	0	0	0	19	0	0	7
South Atlantic	**0**	**0**	**0**	**1**	**3**	**0**	**0**	**0**
Delaware	0	0	0	83	83	0	0	8
Florida	0	0	0	0	2	0	0	0
Georgia	0	0	0	6	6	0	0	1
Maryland	0	0	0	72	72	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	76	26	0	0	1
Virginia	0	0	0	4	10	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**23**	**17**	**0**	**0**	**1**
Alabama	0	0	0	42	42	0	0	1
Kentucky	0	0	0	26	19	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	227	227	0	0	2
West South Central	**0**	**0**	**0**	**22**	**11**	**0**	**0**	**1**
Arkansas	0	0	0	169	169	0	0	3
Louisiana	0	0	0	168	168	0	0	1
Oklahoma	0	0	0	24	11	0	0	5
Texas	0	0	0	54	42	0	0	3
Mountain	**0**	**27**	**0**	**5**	**4**	**0**	**32**	**1**
Arizona	0	0	0	7	7	0	0	0
Colorado	0	0	0	78	3	0	0	1
Idaho	0	0	0	0	36	0	0	7
Montana	0	0	0	0	31	0	0	8
Nevada	0	0	0	6	6	0	0	1
New Mexico	0	0	0	12	12	0	0	2
Utah	0	27	0	0	27	0	37	1
Wyoming	0	0	0	0	11	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**10**	**5**	**0**	**0**	**1**
California	0	0	0	10	7	0	0	2
Oregon	0	0	0	90	10	0	0	3
Washington	0	0	0	88	7	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**17**	**30**	**0**	**0**	**7**
Alaska	0	0	0	0	50	0	0	15
Hawaii	0	0	0	17	13	0	0	1
U.S. Total	**0**	**4**	**0**	**1**	**2**	**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, November 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**22**	**0**	**3**	**0**	**0**	**12**
Connecticut	0	76	0	1	0	0	45
Maine	0	16	0	94	0	0	16
Massachusetts	0	110	0	6	0	0	32
New Hampshire	0	24	0	0	0	0	27
Rhode Island	0	30	0	13	0	0	0
Vermont	0	0	0	0	0	0	30
Middle Atlantic	**5**	**20**	**0**	**1**	**0**	**0**	**11**
New Jersey	0	37	0	3	0	0	0
New York	0	31	0	2	0	0	13
Pennsylvania	5	20	0	1	0	0	16
East North Central	**0**	**9**	**51**	**2**	**9**	**0**	**40**
Illinois	0	17	0	14	0	0	145
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	73
Ohio	0	10	51	2	26	0	77
Wisconsin	0	0	0	0	0	0	68
West North Central	**0**	**107**	**0**	**18**	**0**	**0**	**55**
Iowa	0	84	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	209	0	28	0	0	62
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**10**	**10**	**0**	**2**	**0**	**0**	**14**
Delaware	0	57	0	8	0	0	0
Florida	0	7	0	6	0	0	0
Georgia	0	90	0	4	0	0	260
Maryland	0	11	0	0	0	0	4
North Carolina	0	71	0	7	0	0	72
South Carolina	0	0	0	23	0	0	105
Virginia	0	12	0	3	0	0	72
West Virginia	12	0	0	15	0	0	43
East South Central	**0**	**115**	**0**	**0**	**0**	**0**	**304**
Alabama	0	161	0	0	0	0	0
Kentucky	0	0	0	0	0	0	304
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**28**	**0**	**1**	**0**	**0**	**23**
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	0	0	0	24
Oklahoma	0	0	0	0	0	0	0
Texas	0	60	0	1	0	0	0
Mountain	**6**	**3**	**0**	**2**	**0**	**0**	**23**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	59
Idaho	0	0	0	45	0	0	29
Montana	7	4	0	21	0	0	67
Nevada	0	0	0	0	0	0	96
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**1**	**0**	**0**	**27**
California	0	0	0	1	0	0	41
Oregon	0	0	0	0	0	0	52
Washington	0	21	0	18	0	0	44
Pacific Noncontiguous	**8**	**6**	**0**	**0**	**0**	**0**	**0**
Alaska	63	95	0	0	0	0	0
Hawaii	0	6	0	0	0	0	0
U.S. Total	**1**	**5**	**36**	**1**	**4**	**0**	**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.

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

Independent Power Producers by Census Division and State, November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**5**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	11	8	0	0	1
Maine	0	0	0	15	6	0	0	8
Massachusetts	0	0	0	6	4	0	1	4
New Hampshire	0	0	0	0	10	0	0	2
Rhode Island	0	0	0	14	11	0	0	12
Vermont	0	0	0	19	13	0	0	19
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	6	4	0	0	2
New York	0	0	0	7	4	0	0	1
Pennsylvania	0	0	0	15	5	0	0	1
East North Central	**0**	**0**	**0**	**9**	**2**	**0**	**20**	**1**
Illinois	0	0	0	17	2	0	0	1
Indiana	0	0	0	16	4	0	0	1
Michigan	0	0	0	27	4	0	30	1
Ohio	0	0	0	16	1	0	0	1
Wisconsin	0	0	0	27	5	0	0	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**2**
Iowa	0	0	0	61	3	0	0	3
Kansas	0	0	0	17	2	0	0	2
Minnesota	0	0	0	5	4	0	0	5
Missouri	0	0	0	17	3	0	0	2
Nebraska	0	0	0	34	3	0	0	3
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	158	3	0	0	3
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**2**
Delaware	0	0	0	24	21	0	0	7
District of Columbia	0	0	0	57	57	0	0	57
Florida	0	0	0	3	2	0	1	3
Georgia	0	0	0	2	2	0	0	3
Maryland	0	0	0	7	3	0	0	0
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	4	0	0	6
Virginia	0	0	0	5	5	0	0	2
West Virginia	0	0	0	0	0	0	0	9
East South Central	**0**	**0**	**0**	**2**	**6**	**0**	**0**	**0**
Alabama	0	0	0	4	6	0	0	0
Kentucky	0	0	0	165	49	0	0	10
Mississippi	0	0	0	1	2	0	0	2
Tennessee	0	0	0	6	14	0	0	14
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	2	5	0	0	1
Louisiana	0	0	0	0	11	0	0	7
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	1	2	0	0	1
Mountain	**0**	**7**	**0**	**1**	**2**	**0**	**0**	**1**
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	4	3	0	0	3
Idaho	0	29	0	7	9	0	0	10
Montana	0	0	0	0	2	0	0	4
Nevada	0	7	0	1	4	0	0	3
New Mexico	0	0	0	4	3	0	0	3
Utah	0	19	0	2	4	0	0	3
Wyoming	0	0	0	0	7	0	0	6
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**1**
California	0	3	0	1	2	0	0	1
Oregon	0	22	0	6	5	0	0	3
Washington	0	0	0	33	7	0	0	3
Pacific Noncontiguous	**0**	**59**	**0**	**6**	**13**	**0**	**0**	**6**
Alaska	0	0	0	0	66	0	0	49
Hawaii	0	59	0	6	14	0	0	5
U.S. Total	**0**	**4**	**0**	**1**	**1**	**0**	**0**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**22**	**0**	**3**	**0**	**0**	**12**
Connecticut	0	76	0	1	0	0	45
Maine	0	16	0	94	0	0	16
Massachusetts	0	110	0	6	0	0	32
New Hampshire	0	24	0	0	0	0	27
Rhode Island	0	30	0	13	0	0	0
Vermont	0	0	0	0	0	0	30
Middle Atlantic	**5**	**20**	**0**	**1**	**0**	**0**	**11**
New Jersey	0	37	0	3	0	0	0
New York	0	31	0	2	0	0	13
Pennsylvania	5	20	0	1	0	0	16
East North Central	**0**	**9**	**51**	**2**	**9**	**0**	**40**
Illinois	0	17	0	14	0	0	145
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	73
Ohio	0	10	51	2	26	0	77
Wisconsin	0	0	0	0	0	0	68
West North Central	**0**	**107**	**0**	**18**	**0**	**0**	**55**
Iowa	0	84	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	209	0	28	0	0	62
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**10**	**10**	**0**	**2**	**0**	**0**	**14**
Delaware	0	57	0	8	0	0	0
Florida	0	7	0	6	0	0	0
Georgia	0	90	0	4	0	0	260
Maryland	0	11	0	0	0	0	4
North Carolina	0	71	0	7	0	0	72
South Carolina	0	0	0	23	0	0	105
Virginia	0	12	0	3	0	0	72
West Virginia	12	0	0	15	0	0	43
East South Central	**0**	**115**	**0**	**0**	**0**	**0**	**304**
Alabama	0	161	0	0	0	0	0
Kentucky	0	0	0	0	0	0	304
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**28**	**0**	**1**	**0**	**0**	**23**
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	0	0	0	24
Oklahoma	0	0	0	0	0	0	0
Texas	0	60	0	1	0	0	0
Mountain	**6**	**3**	**0**	**2**	**0**	**0**	**23**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	59
Idaho	0	0	0	45	0	0	29
Montana	7	4	0	21	0	0	67
Nevada	0	0	0	0	0	0	96
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**1**	**0**	**0**	**27**
California	0	0	0	1	0	0	41
Oregon	0	0	0	0	0	0	52
Washington	0	21	0	18	0	0	44
Pacific Noncontiguous	**8**	**6**	**0**	**0**	**0**	**0**	**0**
Alaska	63	95	0	0	0	0	0
Hawaii	0	6	0	0	0	0	0
U.S. Total	**1**	**5**	**36**	**1**	**4**	**0**	**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.

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 November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**5**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	11	8	0	0	1
Maine	0	0	0	15	6	0	0	8
Massachusetts	0	0	0	6	4	0	1	4
New Hampshire	0	0	0	0	10	0	0	2
Rhode Island	0	0	0	14	11	0	0	12
Vermont	0	0	0	19	13	0	0	19
Middle Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	6	4	0	0	2
New York	0	0	0	7	4	0	0	1
Pennsylvania	0	0	0	15	5	0	0	1
East North Central	**0**	**0**	**0**	**9**	**2**	**0**	**20**	**1**
Illinois	0	0	0	17	2	0	0	1
Indiana	0	0	0	16	4	0	0	1
Michigan	0	0	0	27	4	0	30	1
Ohio	0	0	0	16	1	0	0	1
Wisconsin	0	0	0	27	5	0	0	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**2**
Iowa	0	0	0	61	3	0	0	3
Kansas	0	0	0	17	2	0	0	2
Minnesota	0	0	0	5	4	0	0	5
Missouri	0	0	0	17	3	0	0	2
Nebraska	0	0	0	34	3	0	0	3
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	158	3	0	0	3
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**2**
Delaware	0	0	0	24	21	0	0	7
District of Columbia	0	0	0	57	57	0	0	57
Florida	0	0	0	3	2	0	1	3
Georgia	0	0	0	2	2	0	0	3
Maryland	0	0	0	7	3	0	0	0
North Carolina	0	0	0	2	2	0	0	3
South Carolina	0	0	0	3	4	0	0	6
Virginia	0	0	0	5	5	0	0	2
West Virginia	0	0	0	0	0	0	0	9
East South Central	**0**	**0**	**0**	**2**	**6**	**0**	**0**	**0**
Alabama	0	0	0	4	6	0	0	0
Kentucky	0	0	0	165	49	0	0	10
Mississippi	0	0	0	1	2	0	0	2
Tennessee	0	0	0	6	14	0	0	14
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	2	5	0	0	1
Louisiana	0	0	0	0	11	0	0	7
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	1	2	0	0	1
Mountain	**0**	**7**	**0**	**1**	**2**	**0**	**0**	**1**
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	4	3	0	0	3
Idaho	0	29	0	7	9	0	0	10
Montana	0	0	0	0	2	0	0	4
Nevada	0	7	0	1	4	0	0	3
New Mexico	0	0	0	4	3	0	0	3
Utah	0	19	0	2	4	0	0	3
Wyoming	0	0	0	0	7	0	0	6
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**1**
California	0	3	0	1	2	0	0	1
Oregon	0	22	0	6	5	0	0	3
Washington	0	0	0	33	7	0	0	3
Pacific Noncontiguous	**0**	**59**	**0**	**6**	**13**	**0**	**0**	**6**
Alaska	0	0	0	0	66	0	0	49
Hawaii	0	59	0	6	14	0	0	5
U.S. Total	**0**	**4**	**0**	**1**	**1**	**0**	**0**	**0**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, November 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**27**	**0**	**18**	**0**	**0**	**0**
Connecticut	0	0	0	28	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	98	0	28	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**76**	**0**	**18**	**0**	**0**	**0**
New Jersey	0	100	0	35	0	0	0
New York	0	110	0	23	0	0	0
Pennsylvania	0	0	0	17	0	0	0
East North Central	**0**	**73**	**0**	**7**	**0**	**0**	**0**
Illinois	0	925	0	29	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	188	0	6	0	0	0
Ohio	0	0	0	9	0	0	0
Wisconsin	0	139	0	6	0	0	0
West North Central	**0**	**27**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	8	0	0	0
Minnesota	0	26	0	6	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	1,438	0	0	0	0	0
South Atlantic	**0**	**5**	**0**	**9**	**0**	**0**	**0**
District of Columbia	0	0	0	46	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	46	0	0	0	0	0
Maryland	0	194	0	6	0	0	0
North Carolina	0	239	0	53	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**	**31**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	31	0	0	0
West South Central	**0**	**0**	**0**	**24**	**0**	**0**	**622**
Arkansas	0	0	0	117	0	0	0
Louisiana	0	0	0	25	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	33	0	0	622
Mountain	**0**	**2,255**	**0**	**14**	**0**	**0**	**0**
Arizona	0	2,255	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	60	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**46**	**0**	**9**	**0**	**0**	**872**
California	0	14	0	10	0	0	872
Oregon	0	781	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**46**	**27**	**0**	**0**	**0**	**0**	**70**
Alaska	46	215	0	0	0	0	70
Hawaii	0	0	0	0	0	0	0
U.S. Total	**25**	**9**	**0**	**5**	**0**	**0**	**56**

Displayed values of zero may 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, November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**61**	**8**	**0**	**0**	**14**
Connecticut	0	0	0	91	91	0	0	27
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	83	21	0	0	24
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**4**	**0**	**3**	**8**
New Jersey	0	0	0	17	7	0	0	10
New York	0	0	0	57	6	0	7	13
Pennsylvania	0	0	0	76	6	0	0	6
East North Central	**0**	**0**	**0**	**57**	**23**	**0**	**0**	**6**
Illinois	0	0	0	121	165	0	0	28
Indiana	0	0	0	146	12	0	0	1
Michigan	0	0	0	184	4	0	0	5
Ohio	0	0	0	99	24	0	0	8
Wisconsin	0	0	0	123	55	0	0	18
West North Central	**0**	**0**	**0**	**0**	**24**	**0**	**47**	**9**
Iowa	0	0	0	0	31	0	0	6
Kansas	0	0	0	0	178	0	0	178
Minnesota	0	0	0	0	40	0	47	18
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	322	0	0	320
South Dakota	0	0	0	0	0	0	0	1,438
South Atlantic	**0**	**0**	**0**	**18**	**6**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	31
Florida	0	0	0	67	21	0	0	13
Georgia	0	0	0	118	118	0	0	92
Maryland	0	0	0	47	25	0	0	6
North Carolina	0	0	0	21	21	0	0	26
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	145	4	0	0	1
East South Central	**0**	**0**	**0**	**94**	**94**	**0**	**0**	**31**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	94	94	0	0	31
West South Central	**0**	**0**	**0**	**25**	**86**	**0**	**0**	**23**
Arkansas	0	0	0	0	0	0	0	94
Louisiana	0	0	0	0	0	0	0	25
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	94	165	0	0	32
Mountain	**0**	**0**	**0**	**21**	**3**	**0**	**0**	**5**
Arizona	0	0	0	57	57	0	0	4
Colorado	0	0	0	43	37	0	0	29
Idaho	0	0	0	0	24	0	0	10
Nevada	0	0	0	27	2	0	0	2
New Mexico	0	0	0	0	364	0	0	59
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**17**	**5**	**0**	**0**	**6**
California	0	0	0	17	5	0	0	6
Oregon	0	0	0	0	23	0	0	9
Washington	0	0	0	0	40	0	0	30
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**
Alaska	0	0	0	0	0	0	0	37
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**8**	**3**	**0**	**2**	**3**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**27**	**0**	**18**	**0**	**0**	**0**
Connecticut	0	0	0	28	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	98	0	28	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**76**	**0**	**18**	**0**	**0**	**0**
New Jersey	0	100	0	35	0	0	0
New York	0	110	0	23	0	0	0
Pennsylvania	0	0	0	17	0	0	0
East North Central	**0**	**73**	**0**	**7**	**0**	**0**	**0**
Illinois	0	925	0	29	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	188	0	6	0	0	0
Ohio	0	0	0	9	0	0	0
Wisconsin	0	139	0	6	0	0	0
West North Central	**0**	**27**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	8	0	0	0
Minnesota	0	26	0	6	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	1,438	0	0	0	0	0
South Atlantic	**0**	**5**	**0**	**9**	**0**	**0**	**0**
District of Columbia	0	0	0	46	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	46	0	0	0	0	0
Maryland	0	194	0	6	0	0	0
North Carolina	0	239	0	53	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**	**31**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	31	0	0	0
West South Central	**0**	**0**	**0**	**24**	**0**	**0**	**622**
Arkansas	0	0	0	117	0	0	0
Louisiana	0	0	0	25	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	33	0	0	622
Mountain	**0**	**2,255**	**0**	**14**	**0**	**0**	**0**
Arizona	0	2,255	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	60	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**46**	**0**	**9**	**0**	**0**	**872**
California	0	14	0	10	0	0	872
Oregon	0	781	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**46**	**27**	**0**	**0**	**0**	**0**	**70**
Alaska	46	215	0	0	0	0	70
Hawaii	0	0	0	0	0	0	0
U.S. Total	**25**	**9**	**0**	**5**	**0**	**0**	**56**

Displayed values of zero may 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 November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**61**	**8**	**0**	**0**	**14**
Connecticut	0	0	0	91	91	0	0	27
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	83	21	0	0	24
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**16**	**4**	**0**	**3**	**8**
New Jersey	0	0	0	17	7	0	0	10
New York	0	0	0	57	6	0	7	13
Pennsylvania	0	0	0	76	6	0	0	6
East North Central	**0**	**0**	**0**	**57**	**23**	**0**	**0**	**6**
Illinois	0	0	0	121	165	0	0	28
Indiana	0	0	0	146	12	0	0	1
Michigan	0	0	0	184	4	0	0	5
Ohio	0	0	0	99	24	0	0	8
Wisconsin	0	0	0	123	55	0	0	18
West North Central	**0**	**0**	**0**	**0**	**24**	**0**	**47**	**9**
Iowa	0	0	0	0	31	0	0	6
Kansas	0	0	0	0	178	0	0	178
Minnesota	0	0	0	0	40	0	47	18
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	322	0	0	320
South Dakota	0	0	0	0	0	0	0	1,438
South Atlantic	**0**	**0**	**0**	**18**	**6**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	31
Florida	0	0	0	67	21	0	0	13
Georgia	0	0	0	118	118	0	0	92
Maryland	0	0	0	47	25	0	0	6
North Carolina	0	0	0	21	21	0	0	26
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	145	4	0	0	1
East South Central	**0**	**0**	**0**	**94**	**94**	**0**	**0**	**31**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	94	94	0	0	31
West South Central	**0**	**0**	**0**	**25**	**86**	**0**	**0**	**23**
Arkansas	0	0	0	0	0	0	0	94
Louisiana	0	0	0	0	0	0	0	25
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	94	165	0	0	32
Mountain	**0**	**0**	**0**	**21**	**3**	**0**	**0**	**5**
Arizona	0	0	0	57	57	0	0	4
Colorado	0	0	0	43	37	0	0	29
Idaho	0	0	0	0	24	0	0	10
Nevada	0	0	0	27	2	0	0	2
New Mexico	0	0	0	0	364	0	0	59
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**17**	**5**	**0**	**0**	**6**
California	0	0	0	17	5	0	0	6
Oregon	0	0	0	0	23	0	0	9
Washington	0	0	0	0	40	0	0	30
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**
Alaska	0	0	0	0	0	0	0	37
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**8**	**3**	**0**	**2**	**3**

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, November 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**14**	**0**	**0**	**84**
Connecticut	0	0	0	21	0	0	0
Maine	0	23	0	27	0	0	84
Massachusetts	0	0	0	16	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	631	0	54	0	0	0
Middle Atlantic	**0**	**3**	**0**	**11**	**20**	**0**	**61**
New Jersey	0	0	0	14	0	0	0
New York	0	0	0	9	0	0	61
Pennsylvania	0	59	0	17	28	0	0
East North Central	**8**	**52**	**0**	**7**	**11**	**0**	**41**
Illinois	8	0	0	19	0	0	0
Indiana	0	0	0	13	13	0	0
Michigan	0	125	0	11	0	0	326
Ohio	0	0	0	12	0	0	0
Wisconsin	21	130	0	11	0	0	40
West North Central	**7**	**0**	**0**	**5**	**0**	**0**	**0**
Iowa	3	0	0	7	0	0	0
Kansas	0	0	0	13	0	0	0
Minnesota	76	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	20	0	0	0	0	0	0
North Dakota	80	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**11**	**41**	**117**	**8**	**0**	**0**	**37**
Delaware	0	0	0	0	0	0	0
Florida	0	102	0	19	0	0	0
Georgia	35	62	117	29	0	0	102
Maryland	0	0	0	0	0	0	0
North Carolina	6	53	0	38	0	0	496
South Carolina	0	0	0	27	0	0	0
Virginia	0	922	0	8	0	0	0
West Virginia	0	0	0	0	0	0	38
East South Central	**0**	**71**	**0**	**10**	**120**	**0**	**0**
Alabama	0	109	0	20	513	0	0
Kentucky	0	0	0	12	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	11	0	0	0
West South Central	**0**	**49**	**0**	**2**	**7**	**0**	**0**
Arkansas	0	1,156	0	42	0	0	0
Louisiana	0	0	0	2	9	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	10	0	2	9	0	0
Mountain	**32**	**0**	**0**	**3**	**5**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	177	0	0	18	0	0	0
Montana	89	0	0	40	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	33	0	0	5	5	0	0
Pacific Contiguous	**0**	**44**	**0**	**2**	**2**	**0**	**0**
California	0	0	0	2	3	0	0
Oregon	0	0	0	26	0	0	0
Washington	0	77	0	4	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**86**
Alaska	0	21	0	0	0	0	0
Hawaii	0	0	0	0	0	0	86
U.S. Total	**4**	**6**	**40**	**1**	**5**	**0**	**25**

Displayed values of zero may 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, November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**80**	**9**	**0**	**0**	**8**
Connecticut	0	0	0	642	642	0	0	21
Maine	0	0	0	0	9	0	0	9
Massachusetts	0	0	0	80	170	0	0	17
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	54
Middle Atlantic	**0**	**0**	**0**	**44**	**8**	**0**	**0**	**8**
New Jersey	0	0	0	72	72	0	0	7
New York	0	0	0	84	19	0	0	8
Pennsylvania	0	0	0	73	7	0	0	12
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**2**	**4**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	22	0	0	7
Michigan	0	0	0	0	10	0	0	6
Ohio	0	0	0	0	18	0	0	10
Wisconsin	0	0	0	0	10	0	80	8
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	12
Minnesota	0	0	0	0	0	0	0	10
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	20
North Dakota	0	0	0	0	40	0	0	47
South Dakota	0	0	0	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**83**	**2**	**0**	**0**	**3**
Delaware	0	0	0	0	55	0	0	1
Florida	0	0	0	118	6	0	0	6
Georgia	0	0	0	0	5	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	6
South Carolina	0	0	0	117	3	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	14
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**55**	**4**
Alabama	0	0	0	0	4	0	0	6
Kentucky	0	0	0	0	21	0	0	12
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	9	0	55	6
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**2**	**1**
Arkansas	0	0	0	0	7	0	0	10
Louisiana	0	0	0	0	6	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	11	0	5	2
Mountain	**0**	**0**	**0**	**73**	**0**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	117	2	0	0	9
Montana	0	0	0	0	0	0	0	39
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	5
Pacific Contiguous	**0**	**0**	**0**	**26**	**6**	**0**	**3**	**2**
California	0	0	0	26	10	0	3	2
Oregon	0	0	0	0	13	0	0	11
Washington	0	0	0	0	9	0	0	5
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**164**	**0**	**0**	**15**
Alaska	0	0	0	0	164	0	0	6
Hawaii	0	0	0	0	0	0	0	21
U.S. Total	**0**	**0**	**0**	**19**	**2**	**0**	**1**	**1**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**14**	**0**	**0**	**84**
Connecticut	0	0	0	21	0	0	0
Maine	0	23	0	27	0	0	84
Massachusetts	0	0	0	16	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	631	0	54	0	0	0
Middle Atlantic	**0**	**3**	**0**	**11**	**20**	**0**	**61**
New Jersey	0	0	0	14	0	0	0
New York	0	0	0	9	0	0	61
Pennsylvania	0	59	0	17	28	0	0
East North Central	**8**	**52**	**0**	**7**	**11**	**0**	**41**
Illinois	8	0	0	19	0	0	0
Indiana	0	0	0	13	13	0	0
Michigan	0	125	0	11	0	0	326
Ohio	0	0	0	12	0	0	0
Wisconsin	21	130	0	11	0	0	40
West North Central	**7**	**0**	**0**	**5**	**0**	**0**	**0**
Iowa	3	0	0	7	0	0	0
Kansas	0	0	0	13	0	0	0
Minnesota	76	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	20	0	0	0	0	0	0
North Dakota	80	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**11**	**41**	**117**	**8**	**0**	**0**	**37**
Delaware	0	0	0	0	0	0	0
Florida	0	102	0	19	0	0	0
Georgia	35	62	117	29	0	0	102
Maryland	0	0	0	0	0	0	0
North Carolina	6	53	0	38	0	0	496
South Carolina	0	0	0	27	0	0	0
Virginia	0	922	0	8	0	0	0
West Virginia	0	0	0	0	0	0	38
East South Central	**0**	**71**	**0**	**10**	**120**	**0**	**0**
Alabama	0	109	0	20	513	0	0
Kentucky	0	0	0	12	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	11	0	0	0
West South Central	**0**	**49**	**0**	**2**	**7**	**0**	**0**
Arkansas	0	1,156	0	42	0	0	0
Louisiana	0	0	0	2	9	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	10	0	2	9	0	0
Mountain	**32**	**0**	**0**	**3**	**5**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	177	0	0	18	0	0	0
Montana	89	0	0	40	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	33	0	0	5	5	0	0
Pacific Contiguous	**0**	**44**	**0**	**2**	**2**	**0**	**0**
California	0	0	0	2	3	0	0
Oregon	0	0	0	26	0	0	0
Washington	0	77	0	4	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**86**
Alaska	0	21	0	0	0	0	0
Hawaii	0	0	0	0	0	0	86
U.S. Total	**4**	**6**	**40**	**1**	**5**	**0**	**25**

Displayed values of zero may 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 November 2020 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**80**	**9**	**0**	**0**	**8**
Connecticut	0	0	0	642	642	0	0	21
Maine	0	0	0	0	9	0	0	9
Massachusetts	0	0	0	80	170	0	0	17
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	54
Middle Atlantic	**0**	**0**	**0**	**44**	**8**	**0**	**0**	**8**
New Jersey	0	0	0	72	72	0	0	7
New York	0	0	0	84	19	0	0	8
Pennsylvania	0	0	0	73	7	0	0	12
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**2**	**4**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	22	0	0	7
Michigan	0	0	0	0	10	0	0	6
Ohio	0	0	0	0	18	0	0	10
Wisconsin	0	0	0	0	10	0	80	8
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	12
Minnesota	0	0	0	0	0	0	0	10
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	20
North Dakota	0	0	0	0	40	0	0	47
South Dakota	0	0	0	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**83**	**2**	**0**	**0**	**3**
Delaware	0	0	0	0	55	0	0	1
Florida	0	0	0	118	6	0	0	6
Georgia	0	0	0	0	5	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	6
South Carolina	0	0	0	117	3	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	14
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**55**	**4**
Alabama	0	0	0	0	4	0	0	6
Kentucky	0	0	0	0	21	0	0	12
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	9	0	55	6
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**2**	**1**
Arkansas	0	0	0	0	7	0	0	10
Louisiana	0	0	0	0	6	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	11	0	5	2
Mountain	**0**	**0**	**0**	**73**	**0**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	117	2	0	0	9
Montana	0	0	0	0	0	0	0	39
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	5
Pacific Contiguous	**0**	**0**	**0**	**26**	**6**	**0**	**3**	**2**
California	0	0	0	26	10	0	3	2
Oregon	0	0	0	0	13	0	0	11
Washington	0	0	0	0	9	0	0	5
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**164**	**0**	**0**	**15**
Alaska	0	0	0	0	164	0	0	6
Hawaii	0	0	0	0	0	0	0	21
U.S. Total	**0**	**0**	**0**	**19**	**2**	**0**	**1**	**1**

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	1	9	0	1
Maine	1	2	2	0	1
Massachusetts	1	1	6	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	8	8	0	4
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**1**
Illinois	1	1	1	0	1
Indiana	1	4	2	0	1
Michigan	1	3	5	0	2
Ohio	1	1	1	0	1
Wisconsin	1	5	9	0	3
West North Central	**1**	**3**	**4**	**0**	**2**
Iowa	2	10	8	0	5
Kansas	2	2	11	0	3
Minnesota	2	6	11	0	4
Missouri	1	3	7	0	2
Nebraska	2	10	13	0	6
North Dakota	2	5	11	0	5
South Dakota	3	12	18	0	6
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	3	5	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	8	0	1
Georgia	1	1	6	0	2
Maryland	0	1	3	0	0
North Carolina	1	1	4	0	1
South Carolina	1	1	4	0	2
Virginia	1	0	5	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	4	0	2
Kentucky	2	4	3	0	2
Mississippi	2	2	7	0	3
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	1	2	6	0	3
Louisiana	1	1	2	0	1
Oklahoma	1	1	6	0	2
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	5	7	0	3
Idaho	1	5	8	0	3
Montana	2	10	9	0	4
Nevada	1	2	1	0	1
New Mexico	3	8	8	0	4
Utah	2	5	3	0	2
Wyoming	3	10	7	0	5
Pacific Contiguous	**0**	**1**	**4**	**0**	**1**
California	0	1	2	0	1
Oregon	1	5	13	0	4
Washington	1	5	13	0	4
Pacific Noncontiguous	**1**	**6**	**7**	**0**	**3**
Alaska	2	12	23	0	7
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

by End-Use Sector, Census Division, and State, Year-to-Date through November 2020

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

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Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, November 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**0**
Connecticut	1	1	9	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	3	0	1
New Hampshire	0	1	2	0	1
Rhode Island	1	0	0	0	0
Vermont	2	7	5	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	1
Indiana	1	3	2	0	1
Michigan	1	2	5	0	1
Ohio	1	1	1	0	1
Wisconsin	1	4	9	0	2
West North Central	**1**	**2**	**5**	**0**	**1**
Iowa	2	8	10	0	4
Kansas	2	2	8	0	2
Minnesota	2	5	11	0	3
Missouri	2	4	6	0	2
Nebraska	3	9	15	0	5
North Dakota	2	5	10	0	4
South Dakota	3	9	16	0	5
South Atlantic	**0**	**1**	**2**	**2**	**0**
Delaware	2	3	9	0	2
District of Columbia	1	0	0	5	0
Florida	1	1	6	0	1
Georgia	1	2	5	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	2	4	0	1
Virginia	1	1	5	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	2	4	0	1
Kentucky	2	5	3	0	2
Mississippi	2	3	8	0	2
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	3	5	0	2
Louisiana	1	2	2	0	1
Oklahoma	2	3	7	0	2
Texas	1	1	3	0	1
Mountain	**2**	**2**	**3**	**0**	**1**
Arizona	2	3	6	0	2
Colorado	5	5	9	0	3
Idaho	1	5	8	0	2
Montana	3	7	12	0	4
Nevada	2	3	2	0	1
New Mexico	8	9	12	0	5
Utah	6	6	4	0	3
Wyoming	3	8	7	0	4
Pacific Contiguous	**1**	**1**	**2**	**0**	**1**
California	1	1	2	0	0
Oregon	1	4	12	0	2
Washington	1	4	11	0	2
Pacific Noncontiguous	**1**	**3**	**4**	**0**	**2**
Alaska	2	8	18	0	5
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

by End-Use Sector, Census Division, and State, Year-to-Date through November 2020

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

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

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

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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 November 2020

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

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Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	1	01/09/2020 11:07 PM	01/09/2020 11:18 PM	0 Hours, 11 Minutes	Entergy Transmission Control Center - South	SPP RE	Arkansas:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations	Unknown	Unknown
2020	1	01/09/2020 11:07 PM	01/09/2020 11:19 PM	0 Hours, 12 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Yell County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2020	1	01/11/2020 2:25 AM	01/11/2020 7:56 AM	5 Hours, 31 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Cross County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	22	7541
2020	1	01/11/2020 3:30 AM	01/11/2020 5:30 PM	14 Hours, 0 Minutes	Entergy Corp	SPP RE	Arkansas: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	68138
2020	1	01/11/2020 12:50 PM	01/12/2020 1:33 PM	24 Hours, 43 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	219	30715
2020	1	01/11/2020 1:20 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	4	Unknown
2020	1	01/11/2020 11:02 PM	01/12/2020 2:01 AM	2 Hours, 59 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	66475
2020	1	01/17/2020 5:28 AM	01/17/2020 10:13 AM	4 Hours, 45 Minutes	Pacific Gas & Electric Co	WECC	California: Humboldt County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather/Transmission Interruption	87	67864
2020	1	01/24/2020 4:34 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2020	1	01/30/2020 3:01 AM	01/30/2020 4:36 AM	1 Hours, 35 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	North Dakota: Burleigh County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	75	0
2020	2	02/06/2020 1:30 PM	02/07/2020 8:08 PM	30 Hours, 38 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	Unknown	89500
2020	2	02/06/2020 2:29 PM	02/07/2020 12:44 PM	22 Hours, 15 Minutes	Duke Energy Progress	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	Unknown	284256
2020	2	02/07/2020 8:48 AM	. .	. Hours, . Minutes	Dominion Energy VA	SERC	Virginia: North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	87000
2020	2	02/07/2020 11:00 AM	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	Unknown	52000
2020	2	02/07/2020 2:42 PM	02/10/2020 9:25 AM	66 Hours, 43 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	7500
2020	2	02/07/2020 4:25 PM	02/08/2020 12:00 PM	19 Hours, 35 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	123359
2020	2	02/09/2020 9:30 AM	02/09/2020 9:40 PM	12 Hours, 10 Minutes	Pacific Gas & Electric Co	WECC	California: Alameda County, Contra Costa County, El Dorado County, Nevada County, Placer County, Sierra County, Santa Clara County, Napa County, Marin County, Santa Cruz County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	500	145000
2020	2	02/11/2020 7:13 AM	02/11/2020 4:00 PM	8 Hours, 47 Minutes	Portland General Electric Co	WECC	Oregon: Clackamas County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	Unknown	0
2020	2	02/17/2020 4:00 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern and Central California;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	91	70000
2020	3	03/01/2020 8:00 AM	. .	. Hours, . Minutes	Somerset Operating Company	NPCC	Western NY	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	675	Unknown

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	3	03/01/2020 11:27 AM	03/01/2020 9:47 PM	10 Hours, 20 Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: Rankin County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	19	3136
2020	3	03/12/2020 1:03 AM	03/12/2020 3:00 AM	1 Hours, 57 Minutes	PECO Energy Co	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	40	15864
2020	3	03/16/2020 12:01 PM	03/16/2020 1:10 PM	1 Hours, 9 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	165	110800
2020	3	03/18/2020 7:09 AM	. .	. Hours, . Minutes	Pacificorp	WECC	Utah:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Natural Disaster	237	73000
2020	3	03/24/2020 2:55 AM	03/24/2020 6:50 AM	3 Hours, 55 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	51026
2020	3	03/26/2020 9:29 PM	03/26/2020 9:47 PM	0 Hours, 18 Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	19	11964
2020	3	03/29/2020 8:27 PM	03/29/2020 11:04 PM	2 Hours, 37 Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: Panola County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	4	1558
2020	3	03/31/2020 11:45 AM	03/31/2020 8:00 PM	8 Hours, 15 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	412	57744
2020	4	04/02/2020 1:37 PM	04/02/2020 2:43 PM	1 Hours, 6 Minutes	Nebraska Public Power District	MRO	Nebraska: York County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	5	Unknown
2020	4	04/05/2020 3:46 PM	04/05/2020 5:35 PM	1 Hours, 49 Minutes	Pacific Gas & Electric Co	WECC	California: Stanislaus County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	7	6814
2020	4	04/07/2020 11:39 PM	04/07/2020 11:46 PM	0 Hours, 7 Minutes	Bonneville Power Administration	WECC	Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	4	04/08/2020 1:21 AM	04/08/2020 3:56 AM	2 Hours, 35 Minutes	Ohio Edison Co	WECC	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	82509
2020	4	04/08/2020 9:57 PM	04/09/2020 8:59 AM	11 Hours, 2 Minutes	Duke Energy Midwest	RF	Ohio: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78314
2020	4	04/08/2020 10:03 PM	04/09/2020 7:36 AM	9 Hours, 33 Minutes	Duke Energy Midwest	RF	Indiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	93000
2020	4	04/09/2020 7:25 PM	04/10/2020 3:30 AM	8 Hours, 5 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95000
2020	4	04/09/2020 7:40 PM	04/11/2020 10:00 PM	50 Hours, 20 Minutes	ISO New England	NPCC	Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	340000
2020	4	04/11/2020 11:24 AM	04/11/2020 11:42 AM	0 Hours, 18 Minutes	Pacificorp	WECC	Wyoming:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	4	04/12/2020 5:00 PM	04/14/2020 1:25 AM	32 Hours, 25 Minutes	Southern Company	SERC	Mississippi: Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	448	62828
2020	4	04/12/2020 6:13 PM	04/13/2020 3:23 PM	21 Hours, 10 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	63289
2020	4	04/12/2020 8:30 PM	04/14/2020 9:00 AM	36 Hours, 30 Minutes	Arkansas Electric Coop Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	51000
2020	4	04/12/2020 8:45 PM	. .	. Hours, . Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95318

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	4	04/12/2020 9:28 PM	04/15/2020 12:00 PM	62 Hours, 32 Minutes	American Electric Power - (RFC Reliability Region)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	104000
2020	4	04/13/2020 12:45 AM	04/13/2020 3:00 AM	2 Hours, 15 Minutes	Tennessee Valley Authority	SERC	Tennessee: Hamilton County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	120000
2020	4	04/13/2020 3:30 AM	04/14/2020 6:18 PM	38 Hours, 48 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	216400
2020	4	04/13/2020 7:31 AM	04/13/2020 2:00 PM	6 Hours, 29 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	Unknown
2020	4	04/13/2020 8:08 AM	. .	. Hours, . Minutes	Dominion Energy South Carolina	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	72233
2020	4	04/13/2020 10:25 AM	04/13/2020 6:55 PM	8 Hours, 30 Minutes	Dominion Energy VA	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95000
2020	4	04/13/2020 1:05 PM	04/14/2020 4:00 PM	26 Hours, 55 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	68476
2020	4	04/20/2020 12:59 AM	04/20/2020 8:40 AM	7 Hours, 41 Minutes	Southern Company	SERC	Alabama: Mississippi: Georgia: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	552	77341
2020	4	04/23/2020 4:30 AM	04/23/2020 7:00 AM	2 Hours, 30 Minutes	Entergy Corp	SERC	Mississippi: Arkansas: Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	55184
2020	4	04/23/2020 8:00 AM	04/23/2020 11:40 PM	15 Hours, 40 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	375	52163
2020	4	04/24/2020 9:00 PM	04/24/2020 9:33 PM	0 Hours, 33 Minutes	Pacific Gas & Electric Co	WECC	California: Placer County, Nevada County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations	5	945
2020	4	04/26/2020 1:38 AM	. .	. Hours, . Minutes	Florida Power & Light	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	49999
2020	4	04/28/2020 8:01 PM	04/28/2020 11:21 PM	3 Hours, 20 Minutes	Entergy - Transmission Operations Engineering	TRE	Texas: Jefferson County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	14	1
2020	4	04/29/2020 5:55 AM	04/29/2020 7:00 PM	13 Hours, 5 Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	146660
2020	4	04/29/2020 6:00 AM	04/29/2020 12:31 PM	6 Hours, 31 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	77933
2020	4	04/30/2020 3:00 PM	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania: Bucks County, Chester County, Delaware County, Montgomery County, Philadelphia County, York County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78007
2020	5	05/04/2020 11:59 AM	05/07/2020 8:00 PM	80 Hours, 1 Minutes	Tennessee Valley Authority	SERC	Tennessee: Davidson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	500	130000
2020	5	05/13/2020 5:12 AM	05/13/2020 2:07 PM	8 Hours, 55 Minutes	Bonneville Power Administration	WECC	Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	5	05/15/2020 5:55 PM	05/17/2020 6:00 PM	48 Hours, 5 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York: Saratoga County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	52
2020	5	05/22/2020 4:35 PM	05/23/2020 3:29 PM	22 Hours, 54 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	108190
2020	5	05/24/2020 4:45 PM	. .	. Hours, . Minutes	Oklahoma Gas & Electric Co	SPP RE	Central Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	54000
2020	5	05/25/2020 10:58 AM	05/25/2020 1:00 PM	2 Hours, 2 Minutes	LCRA Transmission Services Corporation	TRE	Texas: Kerr County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	3745
2020	5	05/27/2020 5:15 PM	05/29/2020 6:30 AM	37 Hours, 15 Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	382000
2020	5	05/27/2020 5:20 PM	. .	. Hours, . Minutes	CenterPoint Energy	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	273269
2020	5	05/29/2020 5:01 PM	05/29/2020 6:57 PM	1 Hours, 56 Minutes	FirstEnergy Corp	RF	Pennsylvania: Warren County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	6	06/03/2020 12:30 PM	06/03/2020 6:00 PM	5 Hours, 30 Minutes	Exelon Corporation/PECO	RF	Pennsylvania: Bucks County, Chester County, Delaware County, Montgomery County, Philadelphia County, York County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	708000
2020	6	06/03/2020 1:00 PM	06/06/2020 4:30 PM	75 Hours, 30 Minutes	Public Service Electric & Gas	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	80	87000
2020	6	06/03/2020 1:36 PM	06/03/2020 4:30 PM	2 Hours, 54 Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78079
2020	6	06/09/2020 11:21 AM	06/09/2020 12:01 PM	0 Hours, 40 Minutes	Bonneville Power Administration	WECC	Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	6	06/10/2020 12:22 PM	06/10/2020 5:00 PM	4 Hours, 38 Minutes	Consumers Energy Co	RF	Michigan: Gratiot County, Lake County, Missaukee County, Benzie County, Leelanau County, Manistee County, Wexford County, Montcalm County, Kent County, Ottawa County, Van Buren County, St. Joseph County, Arenac County, Saginaw County, Calhoun County, Branch County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	270000
2020	6	06/10/2020 5:24 PM	06/11/2020 6:00 PM	24 Hours, 36 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio: Indiana: Kentucky: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	85822
2020	6	06/10/2020 7:30 PM	. .	. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Oakland County, Macomb County, Wayne County, Sanilac County, Tuscola County, Huron County, Lapeer County, Livingston County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	237000
2020	6	06/27/2020 4:00 PM	06/28/2020 2:27 AM	10 Hours, 27 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	33480	78109
2020	6	06/29/2020 2:32 PM	06/29/2020 4:35 PM	2 Hours, 3 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Garland County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	7	07/01/2020 7:26 PM	07/01/2020 7:44 PM	0 Hours, 18 Minutes	FirstEnergy Corp	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	32	2013
2020	7	07/02/2020 8:30 PM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Butte County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2020	7	07/07/2020 11:38 AM	07/07/2020 6:24 PM	6 Hours, 46 Minutes	Los Angeles Department of Water & Power	WECC	California: Los Angeles County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	7	07/07/2020 1:09 PM	07/08/2020 8:17 AM	19 Hours, 8 Minutes	Public Service Company of Colorado	WECC	Colorado:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	7	07/07/2020 7:17 PM	07/07/2020 11:49 PM	4 Hours, 32 Minutes	American Electric Power - (RFC Reliability Region)	RF	West Virginia: Wyoming County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	Unknown	Unknown
2020	7	07/08/2020 6:45 PM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2020	7	07/11/2020 4:55 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2020	7	07/11/2020 9:30 PM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	94700
2020	7	07/11/2020 11:30 PM	07/12/2020 6:30 AM	7 Hours, 0 Minutes	Oklahoma Gas & Electric Co	SPP RE	Oklahoma: Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	68000
2020	7	07/12/2020 4:30 AM	07/13/2020 5:00 AM	24 Hours, 30 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Rockwall County, Tarrant County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	48000
2020	7	07/19/2020 10:30 AM	. .	. Hours, . Minutes	Somerset Operating Company	NPCC	New York: Niagara County	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	675	

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	7	07/19/2020 2:30 PM	07/21/2020 6:48 PM	52 Hours, 18 Minutes	Detroit Edison Co	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	158500
2020	7	07/22/2020 11:30 AM	07/22/2020 2:19 PM	2 Hours, 49 Minutes	FirstEnergy Corp	RF	West Virginia: Tucker County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	7	07/25/2020 7:58 PM	07/27/2020 7:00 PM	47 Hours, 2 Minutes	American Electric Power - Texas	TRE	Texas: Nueces County, Kleberg County, Cameron County, Willacy County, Hidalgo County, Starr County, Kenedy County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	201208
2020	7	07/25/2020 9:00 PM	07/26/2020 4:00 PM	19 Hours, 0 Minutes	Magic Valley Electric Cooperative, Inc.	TRE	Texas: Hidalgo County, Cameron County, Starr County, Kenedy County, Willacy County, Brooks County, Jim Hogg County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	125	84000
2020	7	07/30/2020 5:54 PM	07/30/2020 8:18 PM	2 Hours, 24 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	Nebraska: Scotts Bluff County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	8	08/01/2020 11:14 AM	08/10/2020 9:26 PM	226 Hours, 12 Minutes	American Electric Power - Texas	TRE	Texas: Cameron County, Willacy County, Hidalgo County, Starr County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2020	8	08/02/2020 7:43 PM	08/02/2020 10:27 PM	2 Hours, 44 Minutes	MidAmerican Energy Co	SERC	Illinois: Rock Island County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	8	08/03/2020 11:15 PM	08/06/2020 7:00 AM	55 Hours, 45 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	340000
2020	8	08/04/2020 4:41 AM	08/05/2020 4:26 PM	35 Hours, 45 Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	508000
2020	8	08/04/2020 6:01 AM	08/06/2020 3:30 PM	57 Hours, 29 Minutes	North Carolina EI Member Corp	SERC	North Carolina: Brunswick County, Columbus County, Pender County, Duplin County, Onslow County, Jones County, Craven County, Jones County, Beaufort County, Bertie County, Chowan County, Gates County, Perquimans County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	311	125987
2020	8	08/04/2020 9:00 AM	08/05/2020 6:00 PM	33 Hours, 0 Minutes	Delmarva Power & Light Company	RF	Delaware:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	100000
2020	8	08/04/2020 10:30 AM	. .	. Hours, . Minutes	Atlantic City Electric Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	70000
2020	8	08/04/2020 11:20 AM	08/07/2020 10:55 AM	71 Hours, 35 Minutes	Public Service Electric & Gas	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	60	75000
2020	8	08/04/2020 12:00 PM	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania: Bucks County, Chester County, Delaware County, Montgomery County, Philadelphia County, York County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	137103
2020	8	08/04/2020 12:00 PM	08/07/2020 6:00 AM	66 Hours, 0 Minutes	Orange and Rockland Utilities, Inc.	NPCC	New York: Rockland County, Orange County, Sullivan County; New Jersey: Bergen County, Passaic County, Sussex County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	160000
2020	8	08/04/2020 12:18 PM	08/08/2020 5:31 PM	101 Hours, 13 Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	788000
2020	8	08/04/2020 1:00 PM	08/04/2020 11:59 PM	10 Hours, 59 Minutes	Long Island Power Authority	NPCC	New York: Nassau County, Suffolk County, Queens County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	3907	420000
2020	8	08/04/2020 1:31 PM	. .	. Hours, . Minutes	Consolidated Edison of New York, Inc.	NPCC	New York: Bronx County, Richmond County, Queens County, Kings County, Westchester County, New York County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	271119
2020	8	08/04/2020 2:00 PM	08/08/2020 12:00 PM	94 Hours, 0 Minutes	Central Hudson Gas & Elec Corp	NPCC	New York: Dutchess County, Orange County, Ulster County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	116818
2020	8	08/04/2020 2:35 PM	. .	. Hours, . Minutes	Avangrid/NYSEG	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	76120
2020	8	08/04/2020 2:35 PM	08/10/2020 11:00 AM	140 Hours, 25 Minutes	New York State Electric & Gas	NPCC	New York: Broome County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	76120
2020	8	08/04/2020 3:15 PM	08/07/2020 10:27 AM	67 Hours, 12 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	2000	1188247
2020	8	08/05/2020 5:58 PM	08/05/2020 8:53 PM	2 Hours, 55 Minutes	Entergy - Transmission Operations Engineering	TRE	Texas: Orange 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	89	19785

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	8	08/07/2020 5:13 AM	. .	. Hours, . Minutes	Consolidated Edison of New York, Inc.	NPCC	New York: Queens County, New York County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-Severe Weather	500	187068
2020	8	08/10/2020 10:00 AM	. .	. Hours, . Minutes	MidAmerican Energy Co	MRO	Iowa: Dallas County, Polk County, Warren County, Madison County, Johnson County, Scott County; Illinois: Rock Island County, Henry County, Mercer County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	950	300000
2020	8	08/10/2020 11:00 AM	08/10/2020 4:00 PM	5 Hours, 0 Minutes	Central Iowa Power Cooperative	MRO	Iowa: Webster County, Greene County, Dallas County, Hamilton County, Boone County, Polk County, Hardin County, Story County, Jasper County, Grundy County, Marshall County, Tama County, Poweshiek County, Benton County, Iowa County, Linn County, Johnson County, Jones County, Cedar County, Muscatine County, Jackson County, Clinton County, Scott County;	Uncontrolled loss of 200 Megawatts or more of firm system loads for 15 minutes or more from a single incident for entities with previous year's peak demand less than or equal to 3,000 Megawatts.-Severe Weather	550	Unknown
2020	8	08/10/2020 12:38 PM	. .	. Hours, . Minutes	Alliant Energy	MRO	Iowa:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-Severe Weather	1400	250000
2020	8	08/10/2020 2:30 PM	. .	. Hours, . Minutes	ComEd	SERC	Illinois: Cook County, Will County, DuPage County, Lake County, Kane County, Grundy County, LaSalle County, DeKalb County, McHenry County, Lee County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	856000
2020	8	08/10/2020 4:00 PM	08/13/2020 3:00 PM	71 Hours, 0 Minutes	Ameren Illinois Company	SERC	Illinois: Missouri:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	135000
2020	8	08/10/2020 10:39 PM	08/13/2020 3:48 PM	65 Hours, 9 Minutes	Northern Indiana Pub Serv Co	RF	Indiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95300
2020	8	08/13/2020 1:51 PM	08/13/2020 4:27 PM	2 Hours, 36 Minutes	El Paso Electric	TRE	Texas: El Paso County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	218	57060
2020	8	08/14/2020 4:39 PM	08/14/2020 5:42 PM	1 Hours, 3 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: St. Charles Parish;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	101	12671
2020	8	08/14/2020 5:15 PM	08/15/2020 9:00 PM	27 Hours, 45 Minutes	California ISO	WECC	California:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	1120	Unknown
2020	8	08/14/2020 6:36 PM	08/14/2020 8:42 PM	2 Hours, 6 Minutes	Pacific Gas & Electric Co	WECC	California:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	560	220000
2020	8	08/14/2020 6:45 PM	08/14/2020 9:12 PM	2 Hours, 27 Minutes	Southern California Edison Co	WECC	California: Kern County, Kings County, Los Angeles County, Orange County, Riverside County, San Bernardino County, Santa Barbara County, Tulare County, Ventura County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	1419	132000
2020	8	08/14/2020 8:00 PM	08/16/2020 5:00 PM	45 Hours, 0 Minutes	Northern States Power Co	MRO	Minnesota: Anoka County, Hennepin County, Ramsey County, Washington County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	60000
2020	8	08/15/2020 2:53 PM	08/15/2020 8:00 PM	5 Hours, 7 Minutes	California ISO	WECC	California:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	795	Unknown
2020	8	08/15/2020 3:00 PM	08/15/2020 7:45 PM	4 Hours, 45 Minutes	Southern California Edison Co	WECC	California: Inyo County, Kern County, Los Angeles County, Orange County, Riverside County, San Bernardino County, Tulare County, Ventura County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	200	70000
2020	8	08/15/2020 6:25 PM	08/15/2020 7:44 PM	1 Hours, 19 Minutes	Pacific Gas & Electric Co	WECC	California:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-System Operations	459	220000
2020	8	08/16/2020 3:44 AM	08/17/2020 2:18 PM	34 Hours, 34 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	409	124266
2020	8	08/16/2020 5:30 PM	08/16/2020 7:10 PM	1 Hours, 40 Minutes	California ISO	WECC	California:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	712	Unknown
2020	8	08/16/2020 8:00 PM	08/18/2020 9:00 PM	49 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Tarrant County, Ellis County, Kaufman County, Johnson County, Anderson County, Angelina County, Grayson County, Smith County, Wichita County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	300000
2020	8	08/17/2020 8:21 AM	08/17/2020 9:01 AM	0 Hours, 40 Minutes	Pacific Gas & Electric Co	WECC	California: Yuba County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	2	2
2020	8	08/17/2020 3:05 PM	08/17/2020 9:24 PM	6 Hours, 19 Minutes	California ISO	WECC	California:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	829	Unknown

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	8	08/18/2020 1:30 PM	08/18/2020 8:30 PM	7 Hours, 0 Minutes	California ISO	WECC	California:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	917	Unknown
2020	8	08/18/2020 2:00 PM	08/18/2020 9:00 PM	7 Hours, 0 Minutes	NV Energy	WECC	Nevada:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	7800	1400000
2020	8	08/18/2020 2:30 PM	. .	. Hours, . Minutes	Arizona Public Service Co	WECC	Arizona:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	0	Unknown
2020	8	08/18/2020 2:44 PM	08/18/2020 3:14 PM	0 Hours, 30 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Culberson County, Reeves 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	205	238
2020	8	08/19/2020 1:27 AM	08/19/2020 3:03 AM	1 Hours, 36 Minutes	FirstEnergy Corp	RF	Ohio: Trumbull 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	22	16107
2020	8	08/19/2020 12:00 PM	08/19/2020 9:00 PM	9 Hours, 0 Minutes	City of Redding	WECC	California:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2020	8	08/19/2020 2:00 PM	08/19/2020 9:00 PM	7 Hours, 0 Minutes	NV Energy	WECC	Nevada:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	7500	1400000
2020	8	08/19/2020 2:00 PM	08/19/2020 9:00 PM	7 Hours, 0 Minutes	Salt River Project	WECC	Arizona: Maricopa County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	1200	0
2020	8	08/20/2020 3:29 PM	08/20/2020 3:39 PM	0 Hours, 10 Minutes	Nebraska Public Power District	MRO	Nebraska: Custer County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	60	Unknown
2020	8	08/23/2020 10:30 AM	. .	. Hours, . Minutes	Southwestern Public Service	TRE	Texas panhandle, SE NM	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2020	8	08/27/2020 1:15 AM	. .	. Hours, . Minutes	Entergy Corp	TRE	Texas: Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	615992
2020	8	08/27/2020 3:14 AM	. .	. Hours, . Minutes	Cleco Power LLC	SERC	Louisiana: Calcasieu Parish, Beauregard Parish, Iberia Parish, Acadia Parish, Evangeline Parish, Rapides Parish, St. Landry Parish, Vernon Parish;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	Unknown
2020	8	08/27/2020 5:00 AM	09/03/2020 12:00 PM	175 Hours, 0 Minutes	Louisiana Generating LLC	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	200	50000
2020	8	08/27/2020 7:00 AM	08/30/2020 7:00 PM	84 Hours, 0 Minutes	City of Alexandria	SERC	Louisiana: Rapides Parish;	Complete operational failure or shut-down of the transmission and/or distribution of electrical system.-Severe Weather	48	Unknown
2020	8	08/27/2020 7:40 AM	08/31/2020 3:33 AM	91 Hours, 53 Minutes	American Electric Power - (SPP Reliability Region)	SERC	Louisiana: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	47927
2020	8	08/27/2020 7:40 AM	08/31/2020 7:40 AM	96 Hours, 0 Minutes	Southwest Power Pool, Inc.	SERC	Louisiana: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	130000
2020	8	08/27/2020 12:02 PM	08/27/2020 10:54 PM	10 Hours, 52 Minutes	MISO	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	573	Unknown
2020	8	08/27/2020 12:06 PM	. .	. Hours, . Minutes	Entergy Transmission Control Center - North	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	350	Unknown
2020	8	08/27/2020 12:06 PM	08/27/2020 10:49 PM	10 Hours, 43 Minutes	Entergy - Transmission Operations Engineering	TRE	Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	581	Unknown
2020	8	08/27/2020 12:44 PM	08/27/2020 11:00 PM	10 Hours, 16 Minutes	Entergy Services, Inc.	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	Unknown	Unknown
2020	8	08/27/2020 1:24 PM	. .	. Hours, . Minutes	Entergy Transmission Control Center - South	TRE	Texas: Montgomery County, Liberty County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	208	Unknown
2020	8	08/27/2020 5:11 PM	08/28/2020 10:00 AM	16 Hours, 49 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	100	60687

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	8	08/28/2020 4:27 PM	08/28/2020 7:26 PM	2 Hours, 59 Minutes	Bonneville Power Administration	WECC	Washington: Oregon:	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.-Severe Weather	0	0
2020	9	09/03/2020 1:46 PM	09/03/2020 10:47 PM	9 Hours, 1 Minutes	Snohomish County PUD No 1	WECC	Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	Unknown	Unknown
2020	9	09/05/2020 5:20 PM	09/05/2020 8:37 PM	3 Hours, 17 Minutes	California ISO	WECC	California:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	986	Unknown
2020	9	09/05/2020 5:25 PM	09/05/2020 8:55 PM	3 Hours, 30 Minutes	Imperial Irrigation District	WECC	California: Imperial County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Severe Weather	100	20000
2020	9	09/06/2020 4:00 PM	09/06/2020 9:00 PM	5 Hours, 0 Minutes	NV Energy	WECC	Nevada:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather	8180	1400000
2020	9	09/06/2020 4:30 PM	09/06/2020 9:05 PM	4 Hours, 35 Minutes	California ISO	WECC	California:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-System Operations	1071	Unknown
2020	9	09/06/2020 5:00 PM	09/07/2020 3:00 AM	10 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	72000
2020	9	09/06/2020 5:36 PM	09/06/2020 7:27 PM	1 Hours, 51 Minutes	Bonneville Power Administration	WECC	Washington: Oregon: California:	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.-System Operations	0	0
2020	9	09/07/2020 9:13 AM	09/08/2020 6:00 AM	20 Hours, 47 Minutes	Public Utility District No 1 of Okanogan County	WECC	Washington:	Complete operational failure or shut-down of the transmission and/or distribution of electrical system.-Natural Disaster	80	21000
2020	9	09/07/2020 6:00 PM	09/08/2020 6:00 PM	24 Hours, 0 Minutes	Puget Sound Energy	WECC	Washington: Kitsap County, King County, Pierce County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	71500
2020	9	09/07/2020 7:05 PM	09/08/2020 10:00 PM	26 Hours, 55 Minutes	Portland General Electric Co	WECC	Oregon: Multnomah County, Washington County, Clackamas County, Marion County, Yamhill County, Polk County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	2859	103000
2020	9	09/07/2020 10:40 PM	09/09/2020 5:24 PM	42 Hours, 44 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Transmission Interruption	610	172000
2020	9	09/09/2020 11:22 AM	09/09/2020 1:04 PM	1 Hours, 42 Minutes	Idaho Power Company	WECC	Idaho:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Natural Disaster	0	0
2020	9	09/15/2020 10:00 PM	09/20/2020 3:00 PM	113 Hours, 0 Minutes	Southern Company	SERC	Alabama: Florida: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	236	34096
2020	9	09/16/2020 3:00 AM	09/21/2020 8:00 AM	125 Hours, 0 Minutes	PowerSouth Energy Cooperative	SERC	Alabama: Baldwin County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	0	77600
2020	9	09/22/2020 10:02 AM	09/22/2020 12:58 PM	2 Hours, 56 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations	8	4350
2020	9	09/27/2020 6:27 PM	09/28/2020 3:17 PM	20 Hours, 50 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Natural Disaster	337	102267
2020	9	09/30/2020 5:55 AM	09/30/2020 11:30 PM	17 Hours, 35 Minutes	ISO New England	NPCC	Connecticut: Maine: Rhode Island: Massachusetts: New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	155000
2020	10	10/07/2020 1:45 PM	10/07/2020 1:59 PM	0 Hours, 14 Minutes	Entergy - Transmission Operations Engineering	SERC	Louisiana: Orleans Parish;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	183	39089
2020	10	10/07/2020 4:00 PM	. .	. Hours, . Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York: Onondaga County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	7500
2020	10	10/07/2020 6:50 PM	10/09/2020 3:00 PM	44 Hours, 10 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	186600

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	10	10/09/2020 10:44 AM	10/09/2020 10:25 PM	11 Hours, 41 Minutes	Public Service Company of Colorado	WECC	Colorado:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	10	10/09/2020 5:30 PM	10/10/2020 6:00 PM	24 Hours, 30 Minutes	Entergy Corp	SERC	Louisiana: Texas: Arkansas: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	477966
2020	10	10/09/2020 7:50 PM	10/11/2020 3:09 PM	43 Hours, 19 Minutes	Cleco Power LLC	SERC	Louisiana: Acadia Parish, Beauregard Parish, Calcasieu Parish, Evangeline Parish, Iberia Parish, Rapides Parish, Vernon Parish, Avoyelles Parish, Grant Parish, Natchitoches Parish, St. Landry Parish, St. Mary Parish, St. Tammany Parish;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	132200
2020	10	10/09/2020 8:00 PM	10/10/2020 6:00 AM	10 Hours, 0 Minutes	Lafayette Public Power Auth	SERC	Louisiana: Lafayette Parish;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	50000
2020	10	10/09/2020 8:00 PM	10/15/2020 7:00 AM	131 Hours, 0 Minutes	Louisiana Generating LLC	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	200	50000
2020	10	10/10/2020 11:10 PM	10/10/2020 11:15 PM	0 Hours, 5 Minutes	Bonneville Power Administration	WECC	Washington: Oregon:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	10	10/12/2020 4:06 AM	10/12/2020 4:07 AM	0 Hours, 1 Minutes	Duke Energy Florida	FRCC	Florida: Polk County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	10	10/13/2020 1:14 PM	10/14/2020 2:00 PM	24 Hours, 46 Minutes	Puget Sound Energy	WECC	Washington: Whatcom County, King County, Pierce County, Thurston County, Kittitas County, Kitsap County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	76000
2020	10	10/14/2020 6:26 PM	10/15/2020 1:11 PM	18 Hours, 45 Minutes	American Electric Power - Texas	TRE	Texas: Pecos County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	18	Unknown
2020	10	10/20/2020 6:48 PM	10/20/2020 6:49 PM	0 Hours, 1 Minutes	GridLiance Holdco NCR11783	SERC	Illinois: Massac County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	10	10/23/2020 3:42 PM	10/23/2020 11:11 PM	7 Hours, 29 Minutes	Duke Energy Midwest	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	Unknown	Unknown
2020	10	10/23/2020 3:46 PM	10/23/2020 11:03 PM	7 Hours, 17 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	55506
2020	10	10/24/2020 8:13 PM	10/24/2020 10:52 PM	2 Hours, 39 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).-Transmission Interruption	1	4
2020	10	10/25/2020 2:32 PM	10/27/2020 6:00 PM	51 Hours, 28 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	1218	370000
2020	10	10/26/2020 9:28 AM	10/26/2020 12:20 PM	2 Hours, 52 Minutes	Public Service Company of Colorado	WECC	Colorado:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	75	13000
2020	10	10/26/2020 11:24 AM	10/27/2020 4:43 PM	29 Hours, 19 Minutes	Southern California Edison Co	WECC	California: Los Angeles County, Riverside County, San Bernardino County, Orange County, Kern County, Ventura County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	136833
2020	10	10/26/2020 1:00 PM	11/07/2020 7:00 PM	294 Hours, 0 Minutes	Oklahoma Gas & Electric Co	SPP RE	Oklahoma: Oklahoma County, Canadian County, Logan County, Cleveland County, Pottawatomie County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	447000
2020	10	10/27/2020 5:50 PM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	235000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	10	10/28/2020 10:28 AM	10/28/2020 10:29 AM	0 Hours, 1 Minutes	ERCOT	TRE	Texas:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	Unknown	Unknown
2020	10	10/28/2020 11:53 AM	10/28/2020 3:26 PM	3 Hours, 33 Minutes	Southwestern Public Service	TRE	Texas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	Unknown	Unknown
2020	10	10/28/2020 5:12 PM	10/29/2020 4:30 PM	23 Hours, 18 Minutes	Cleco Power LLC	SERC	Louisiana: St. Tammany Parish, St. Mary Parish;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	72707
2020	10	10/28/2020 6:00 PM	10/29/2020 1:15 AM	7 Hours, 15 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	481268
2020	10	10/28/2020 9:37 PM	11/02/2020 7:30 PM	117 Hours, 53 Minutes	Southern Company	SERC	Alabama: Florida: Mississippi: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	253	35478
2020	10	10/29/2020 2:00 AM	10/31/2020 9:00 AM	55 Hours, 0 Minutes	PowerSouth Energy Cooperative	SERC	Alabama: Baldwin County, Butler County, Clarke County, Conecuh County, Escambia County, Lee County, Lowndes County, Macon County, Montgomery County, Pike County, Russell County, Tallapoosa County, Talladega County, Washington County, Monroe County; Florida: Escambia County, Okaloosa County, Walton County, Santa Rosa County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	0	90000
2020	10	10/29/2020 8:15 AM	10/31/2020 6:45 PM	58 Hours, 30 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	461580
2020	11	11/01/2020 6:00 PM	11/01/2020 6:09 PM	0 Hours, 9 Minutes	Cleveland Electric Illum Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	85677
2020	11	11/07/2020 5:40 PM	11/07/2020 10:10 PM	4 Hours, 30 Minutes	Public Service Company of Colorado	WECC	Colorado:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	11	11/14/2020 7:40 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: San Bernardino County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2020	11	11/15/2020 11:30 AM	11/16/2020 3:25 AM	15 Hours, 55 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio: West Virginia: Virginia: Indiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	75000
2020	11	11/15/2020 12:30 PM	11/18/2020 9:44 AM	69 Hours, 14 Minutes	Detroit Edison Co	RF	Michigan: Huron County, Livingston County, Macomb County, Monroe County, Wayne County, Washtenaw County, Tuscola County, St. Clair County, Lapeer County, Oakland County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	150000
2020	11	11/15/2020 2:52 PM	11/16/2020 5:59 AM	15 Hours, 7 Minutes	Cleveland Electric Illum Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	96809
2020	11	11/15/2020 3:08 PM	11/15/2020 10:30 PM	7 Hours, 22 Minutes	Ohio Edison Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	123361
2020	11	11/15/2020 3:37 PM	11/17/2020 12:15 PM	44 Hours, 38 Minutes	Consumers Energy Co	RF	Michigan: Iosco County, Oscoda County, Ogemaw County, Livingston County, Ionia County, Barry County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	57327
2020	11	11/15/2020 11:05 PM	11/16/2020 5:00 AM	5 Hours, 55 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	62408
2020	11	11/30/2020 2:33 PM	11/30/2020 5:20 PM	2 Hours, 47 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).-Transmission Interruption	0	0
2020	11	11/30/2020 4:24 PM	12/01/2020 2:25 PM	22 Hours, 1 Minutes	ISO New England	NPCC	Massachusetts: Maine: Connecticut: Rhode Island: Vermont: New Hampshire:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	116000

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

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	1	01/06/2019 1:00 AM	01/06/2019 12:00 PM	11 Hours, 0 Minutes	Puget Sound Energy	WECC	Washington: King County, Thurston County, Pierce County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		230000
2019	1	01/06/2019 3:00 AM	01/09/2019 7:00 AM	76 Hours, 0 Minutes	Peak Reliability	WECC	Washington:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	230	230000
2019	1	01/06/2019 5:56 PM	01/06/2019 9:52 PM	3 Hours, 56 Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	300	90382
2019	1	01/10/2019 12:19 PM	01/10/2019 12:48 PM	0 Hours, 29 Minutes	Western Area Power Administration - Upper Great Plains Region	WECC	Montana: Valley County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	11	2
2019	1	01/12/2019 11:30 AM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SERC	Missouri: Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		116600
2019	1	01/12/2019 11:30 AM	01/13/2019 10:00 PM	34 Hours, 30 Minutes	Kansas City Power & Light Co	SPP RE	Missouri: Jackson County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		112530
2019	1	01/13/2019 5:30 AM	01/15/2019 5:00 PM	59 Hours, 30 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	133200	
2019	1	01/16/2019 5:26 PM	01/17/2019 12:19 PM	18 Hours, 53 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	190	126700
2019	1	01/18/2019 9:54 PM	01/19/2019 12:19 AM	2 Hours, 25 Minutes	Nebraska Public Power District	MRO	Nebraska:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	
2019	1	01/23/2019 7:26 AM	01/23/2019 5:05 PM	9 Hours, 39 Minutes	Western Area Power Administration	WECC	Colorado: Larimer County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	0	0
2019	1	01/29/2019 6:34 PM	01/29/2019 6:36 PM	0 Hours, 2 Minutes	Entergy Transmission Control Center - North	SERC	Louisiana: Washington Parish;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		
2019	1	01/30/2019 4:23 AM	02/02/2019 9:00 AM	76 Hours, 37 Minutes	Prairie Power, Inc.	SERC	Illinois: Scott County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency		
2019	1	01/30/2019 7:00 AM	01/30/2019 8:08 AM	1 Hours, 8 Minutes	Prairie Power, Inc.	SERC	Illinois: Pike County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Severe Weather		
2019	1	01/30/2019 9:30 AM	01/31/2019 6:00 PM	32 Hours, 30 Minutes	Detroit Edison Co	RF	Michigan:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	2	02/05/2019 6:17 PM	02/05/2019 8:26 PM	2 Hours, 9 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather	42	33200
2019	2	02/07/2019 7:39 AM	02/07/2019 7:40 AM	0 Hours, 1 Minutes	Entergy Transmission Control Center - North	SERC	Arkansas	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	3	3370
2019	2	02/07/2019 8:55 AM	02/09/2019 4:30 PM	55 Hours, 35 Minutes	Consumers Energy Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		233000
2019	2	02/08/2019 6:30 PM	. .	. Hours, . Minutes	Puget Sound Energy	WECC	Washington	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		50940
2019	2	02/13/2019 2:48 AM	02/15/2019 12:28 AM	45 Hours, 40 Minutes	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	182	121000
2019	2	02/23/2019 2:05 PM	. .	. Hours, . Minutes	American Electric Power - (RFC Reliability Region)	SERC	Virginia	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	2	02/24/2019 11:21 AM	02/26/2019 5:29 PM	54 Hours, 8 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio, Virginia, West Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		118781
2019	2	02/24/2019 12:31 PM	02/24/2019 2:57 PM	2 Hours, 26 Minutes	Ohio Edison Co	RF	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		157274
2019	2	02/24/2019 2:33 PM	02/24/2019 6:03 PM	3 Hours, 30 Minutes	Monongahela Power Co	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		94048
2019	2	02/24/2019 6:00 PM	02/25/2019 10:00 PM	28 Hours, 0 Minutes	Duquesne Light Co	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		132000
2019	2	02/24/2019 6:47 PM	02/25/2019 1:55 PM	19 Hours, 8 Minutes	West Penn Power Company	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		137216
2019	2	02/24/2019 8:02 PM	02/25/2019 2:30 PM	18 Hours, 28 Minutes	Consumers Energy Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		115000
2019	2	02/25/2019 7:45 AM	02/25/2019 6:40 PM	10 Hours, 55 Minutes	ISO New England	NPCC	Massachusetts	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	2	02/25/2019 1:35 PM	02/26/2019 2:50 AM	13 Hours, 15 Minutes	ISO New England	NPCC	Connecticut, Massachusetts, New Hampshire, Maine, Vermont, Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		72332
2019	2	02/27/2019 11:25 AM	02/27/2019 5:39 PM	6 Hours, 14 Minutes	MidAmerican Energy Co	MRO	Iowa	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	3	03/13/2019 5:50 AM	03/13/2019 10:30 AM	4 Hours, 40 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Midland County, Ector County, Tarrant County, Dallas County, Wichita County, Brown County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		154124
2019	3	03/13/2019 11:29 AM	03/14/2019 9:11 PM	33 Hours, 42 Minutes	Public Service Company of Colorado	WECC	Colorado: Jefferson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	58	58379
2019	3	03/13/2019 3:00 PM	03/14/2019 12:00 AM	9 Hours, 0 Minutes	Southwest Power Pool, Inc.	TRE	Texas: Kansas: Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		66000
2019	3	03/13/2019 3:51 PM	03/16/2019 6:00 PM	74 Hours, 9 Minutes	Southwestern Public Service	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	50	54290
2019	4	04/03/2019 5:15 AM	04/03/2019 12:39 PM	7 Hours, 24 Minutes	California Department of Water Resources	WECC	California: Fresno County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2019	4	04/04/2019 10:13 AM	04/04/2019 12:08 PM	1 Hours, 55 Minutes	Bonneville Power Administration	WECC	Montana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/07/2019 1:46 PM	04/08/2019 5:50 PM	28 Hours, 4 Minutes	CenterPoint Energy	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	537	231956
2019	4	04/11/2019 7:48 PM	04/11/2019 8:00 PM	0 Hours, 12 Minutes	Bonneville Power Administration	WECC	Oregon: Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/12/2019 11:20 AM	04/12/2019 12:46 PM	1 Hours, 26 Minutes	Xcel Energy	MRO	Minnesota: Martin County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/13/2019 6:15 PM	04/13/2019 11:15 PM	5 Hours, 0 Minutes	Entergy Corp	SERC	Mississippi: Arkansas: Texas: Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		60467
2019	4	04/15/2019 4:35 AM	04/15/2019 2:40 PM	10 Hours, 5 Minutes	Dominion Virginia Power	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		75290
2019	4	04/18/2019 7:55 PM	04/19/2019 5:29 PM	21 Hours, 34 Minutes	Southern Company	SERC	Alabama: Mississippi: Georgia: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	116	34695

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	4	04/18/2019 8:08 PM	04/19/2019 11:00 AM	14 Hours, 52 Minutes	Public Service Company of Colorado	WECC	Colorado: Clear Creek County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/25/2019 6:03 PM	04/25/2019 6:32 PM	0 Hours, 29 Minutes	Salt River Project	WECC	Arizona: Maricopa County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Generation Inadequacy	150	51366
2019	4	04/26/2019 1:00 AM	04/26/2019 1:27 PM	12 Hours, 27 Minutes	FirstEnergy Corp	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	7	5830
2019	4	04/26/2019 3:16 PM	04/26/2019 3:17 PM	0 Hours, 1 Minutes	ISO New England	NPCC	Massachusetts: Hampden County[13];	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	4	04/26/2019 5:46 PM	04/27/2019 11:49 AM	18 Hours, 3 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		54071
2019	4	04/28/2019 10:43 AM	04/29/2019 2:06 AM	15 Hours, 23 Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	5	05/08/2019 9:22 AM	05/08/2019 9:56 AM	0 Hours, 34 Minutes	PJM Interconnection	RF	Pennsylvania: Mercer County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	29	1
2019	5	05/08/2019 3:50 PM	05/13/2019 12:00 AM	104 Hours, 10 Minutes	Southwest Power Pool, Inc.	SPP RE	Louisiana: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		65844
2019	5	05/09/2019 5:55 PM	05/11/2019 8:50 PM	50 Hours, 55 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	691	238015
2019	5	05/09/2019 7:06 PM	05/10/2019 2:57 AM	7 Hours, 51 Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	5	05/10/2019 2:00 AM	05/10/2019 12:15 PM	10 Hours, 15 Minutes	Entergy Corp	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		61008
2019	5	05/18/2019 3:45 PM	05/20/2019 4:00 AM	36 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Ector County, Midland County, Tarrant County, Dallas County, Stephens County, Anderson County, McLennan County, Ellis County, Hunt County, Young County, Bell County, Limestone County, Collin County, Rockwall County, Henderson County, Parker County, Falls County, Freestone County, Kaufman County, Grayson County, Smith County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		68000
2019	5	05/23/2019 1:11 AM	05/23/2019 12:00 PM	10 Hours, 49 Minutes	Northern Indiana Pub Serv Co	RF	Indiana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	5	05/23/2019 4:55 PM	05/23/2019 11:40 PM	6 Hours, 45 Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		100000
2019	5	05/24/2019 9:47 PM	05/24/2019 11:58 PM	2 Hours, 11 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system-Severe Weather	20	10961
2019	5	05/27/2019 10:07 PM	05/28/2019 3:00 AM	4 Hours, 53 Minutes	Dayton Power & Light Co	RF	Ohio: Montgomery County, Darke County, Mercer County, Miami County, Greene County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	347	70000

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	6	06/02/2019 6:19 PM	06/02/2019 8:43 PM	2 Hours, 24 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather/Transmission Interruption		
2019	6	06/06/2019 6:09 PM	06/06/2019 6:35 PM	0 Hours, 26 Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		55017
2019	6	06/07/2019 2:43 PM	06/07/2019 4:20 PM	1 Hours, 37 Minutes	American Electric Power - Texas	TRE	Texas: Pecos County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	1
2019	6	06/08/2019 3:50 PM	06/08/2019 7:40 PM	3 Hours, 50 Minutes	Southwestern Public Service	TRE	Texas: Potter County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	6	06/09/2019 2:45 PM	06/13/2019 10:30 PM	103 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Palo Pinto County, Tarrant County, Ellis County, Williamson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		558000
2019	6	06/12/2019 2:56 PM	06/12/2019 3:50 PM	0 Hours, 54 Minutes	Imperial Irrigation District	WECC	California: Imperial County, Riverside County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Generation Inadequacy	982	30907
2019	6	06/16/2019 2:00 AM	06/17/2019 11:59 PM	45 Hours, 59 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County, Collin County, Denton County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		340000
2019	6	06/16/2019 3:25 AM	. .	. Hours, . Minutes	American Electric Power - (SPP Reliability Region)	SPP RE	Oklahoma:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		
2019	6	06/19/2019 10:30 PM	06/20/2019 7:00 PM	20 Hours, 30 Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		82045
2019	6	06/20/2019 4:11 PM	06/21/2019 12:45 PM	20 Hours, 34 Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		60000
2019	6	06/21/2019 7:15 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Kentucky: Tennessee:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather		50000
2019	6	06/22/2019 8:46 PM	06/23/2019 12:30 AM	3 Hours, 44 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	115	34637
2019	6	06/23/2019 5:13 AM	06/23/2019 10:58 AM	5 Hours, 45 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	47	16199
2019	6	06/23/2019 10:00 PM	06/25/2019 11:00 PM	49 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Denton County, Ellis County, Collin County, Ellis County, Hood County, Johnson County, Kaufman County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		265000
2019	6	06/24/2019 5:30 AM	06/24/2019 8:45 AM	3 Hours, 15 Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		56451
2019	6	06/26/2019 1:58 PM	06/26/2019 2:03 PM	0 Hours, 5 Minutes	Montana-Dakota Utilities Co	MRO	North Dakota: Williams County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	53	0
2019	6	06/28/2019 2:25 PM	. .	. Hours, . Minutes	Bonneville Power Administration	WECC	Idaho: Nez Perce County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	6	06/30/2019 3:15 PM	06/30/2019 4:15 PM	1 Hours, 0 Minutes	Long Island Power Authority	NPCC	New York: Nassau County, Suffolk County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	3189	52498

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Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	6	06/30/2019 3:30 PM	06/30/2019 8:30 PM	5 Hours, 0 Minutes	ComEd	SERC	Illinois: Cook County, DeKalb County, DuPage County, Grundy County, Iroquois County, Ford County, Lake County, Kendall County, Kankakee County, Kane County, Ogle County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		100000
2019	7	07/10/2019 12:10 PM	07/12/2019 12:30 PM	48 Hours, 20 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Hood County, Johnson County, Tarrant County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		57000
2019	7	07/11/2019 11:08 AM	07/11/2019 11:13 AM	0 Hours, 5 Minutes	Southwestern Public Service	TRE	Texas: Lynn County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	26	2043
2019	7	07/13/2019 7:15 AM	07/14/2019 5:00 PM	33 Hours, 45 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		55730
2019	7	07/13/2019 6:47 PM	07/13/2019 11:37 PM	4 Hours, 50 Minutes	NYISO	NPCC	New York: New York County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Transmission Interruption	452	72669
2019	7	07/13/2019 11:55 PM	07/14/2019 1:00 PM	13 Hours, 5 Minutes	Cleco Power LLC	SERC	Louisiana: Acadia Parish, Avoyelles Parish, Catahoula Parish, Evangeline Parish, Grant Parish, Iberia Parish, LaSalle Parish, Natchitoches Parish, Rapides Parish, Sabine Parish, St. Landry Parish, St. Martin Parish, St. Mary Parish, St. Tammany Parish, Allen Parish, Beauregard Parish, Calcasieu Parish, Vermilion Parish, De Soto Parish, Jefferson Davis Parish, Red River Parish, Tangipahoa Parish, V	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		63000
2019	7	07/19/2019 7:00 PM	07/21/2019 8:00 PM	49 Hours, 0 Minutes	Detroit Edison Co	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		400000
2019	7	07/20/2019 3:00 AM	07/22/2019 7:00 AM	52 Hours, 0 Minutes	Consumers Energy Co	RF	Michigan: Kent County, Newaygo County, Mecosta County, Montcalm County, Isabella County, Ionia County, Allegan County, Barry County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		160000
2019	7	07/20/2019 11:55 AM	07/23/2019 12:00 AM	60 Hours, 5 Minutes	WEC Energy Group (WEPCO, WPSC, UMERC, WEP-MIUP)	RF	Wisconsin: Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	200	50000
2019	7	07/21/2019 11:00 PM	07/22/2019 8:54 PM	21 Hours, 54 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: Kings County, New York County, Queens County, Bronx County, Westchester County, Richmond County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	60	45000
2019	7	07/22/2019 4:00 PM	07/24/2019 11:00 PM	55 Hours, 0 Minutes	PECO Energy Co	RF	Pennsylvania: Bucks County, Delaware County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		165000
2019	7	07/22/2019 5:50 PM	07/25/2019 1:15 PM	67 Hours, 25 Minutes	Public Service Electric & Gas	RF	New Jersey: Gloucester County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	49	95600
2019	7	07/23/2019 3:39 PM	07/23/2019 7:00 PM	3 Hours, 21 Minutes	ISO New England	NPCC	Massachusetts:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	54	54535
2019	7	07/23/2019 11:55 PM	07/23/2019 11:56 PM	0 Hours, 1 Minutes	Nebraska Public Power District	MRO	Nebraska:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	7	07/23/2019 11:55 PM	07/24/2019 5:22 AM	5 Hours, 27 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	Nebraska: Scotts Bluff County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	7	07/30/2019 8:45 AM	07/30/2019 9:45 AM	1 Hours, 0 Minutes	City of Alexandria	SERC	Louisiana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		13720
2019	8	08/02/2019 1:49 AM	08/02/2019 1:55 AM	0 Hours, 6 Minutes	Northern States Power Co	MRO	Minnesota: Chisago County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	8	08/05/2019 5:23 PM	08/06/2019 12:02 AM	6 Hours, 39 Minutes	Bonneville Power Administration	WECC	Oregon: Umatilla County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	66	
2019	8	08/08/2019 4:16 PM	08/08/2019 10:41 PM	6 Hours, 25 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		5600
2019	8	08/13/2019 10:00 AM	08/13/2019 11:00 AM	1 Hours, 0 Minutes	Rio Bravo Rocklin	WECC	California: Placer County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-Vandalism	0	0
2019	8	08/13/2019 3:10 PM	08/13/2019 5:30 PM	2 Hours, 20 Minutes	ERCOT	TRE	Texas: Williamson County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	8	08/15/2019 8:30 AM	. .	. Hours, . Minutes	Upstate New York Power Producers	NPCC	New York: Tompkins County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	150	
2019	8	08/15/2019 3:11 PM	08/15/2019 6:00 PM	2 Hours, 49 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	8	08/15/2019 11:03 PM	08/16/2019 12:37 AM	1 Hours, 34 Minutes	Pacific Gas & Electric Co	WECC	California: Marin County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Distribution Interruption	80	61318
2019	8	08/18/2019 3:59 PM	08/18/2019 11:00 PM	7 Hours, 1 Minutes	Southwest Power Pool, Inc.	SPP RE	Louisiana: Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Transmission Interruption	271	86373
2019	8	08/18/2019 4:30 PM	08/18/2019 10:00 PM	5 Hours, 30 Minutes	East Texas Electric Coop, Inc	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Transmission Interruption/Distribution Interruption	259	61000
2019	8	08/18/2019 4:47 PM	08/18/2019 11:00 PM	6 Hours, 13 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Distribution Interruption	752	86373
2019	8	08/26/2019 9:09 AM	08/26/2019 1:34 PM	4 Hours, 25 Minutes	Great River Energy	MRO	North Dakota:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	8	08/26/2019 7:00 PM	08/27/2019 3:00 AM	8 Hours, 0 Minutes	Southwest Power Pool, Inc.	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		95000
2019	8	08/26/2019 7:00 PM	08/29/2019 1:00 PM	66 Hours, 0 Minutes	Oklahoma Gas & Electric Co	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		103779
2019	9	09/04/2019 2:30 PM	09/06/2019 6:00 PM	51 Hours, 30 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	9	09/05/2019 4:15 AM	09/05/2019 3:17 PM	11 Hours, 2 Minutes	Dominion Energy South Carolina	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		172278
2019	9	09/05/2019 10:00 PM	09/06/2019 12:00 PM	14 Hours, 0 Minutes	North Carolina El Member Corp	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	3	2000
2019	9	09/05/2019 10:36 PM	09/06/2019 4:00 PM	17 Hours, 24 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		116000
2019	9	09/06/2019 8:20 AM	. .	. Hours, . Minutes	Dominion Energy VA	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		77000
2019	9	09/10/2019 9:22 PM	09/10/2019 9:23 PM	0 Hours, 1 Minutes	Pacificorp	WECC	Wyoming: Sweetwater County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	885	0
2019	9	09/11/2019 10:35 PM	09/11/2019 11:59 PM	1 Hours, 24 Minutes	Consumers Energy Co	RF	Michigan: Ionia County, Kent County, Barry County, Montcalm County, Allegan County, Ottawa County, Newaygo County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		54000
2019	9	09/19/2019 5:55 AM	09/19/2019 2:30 PM	8 Hours, 35 Minutes	Tucson Electric Power	WECC	Arizona: Pima County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	9	09/25/2019 3:47 AM	09/25/2019 3:40 PM	11 Hours, 53 Minutes	Pacific Gas & Electric Co	WECC	California: Napa County, Nevada County, Placer County, Plumas County, Sonoma County, Butte County, Yuba County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	25	69524
2019	9	09/29/2019 7:38 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Alameda County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Distribution Interruption		50072
2019	10	10/04/2019 5:15 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2019	10	10/06/2019 5:15 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2019	10	10/06/2019 2:50 PM	10/06/2019 3:00 PM	0 Hours, 10 Minutes	American Electric Power - Texas	TRE	Texas: Hidalgo County, Cameron County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		
2019	10	10/09/2019 12:27 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	2400	737808
2019	10	10/12/2019 3:00 PM	10/12/2019 4:21 PM	1 Hours, 21 Minutes	American Electric Power - Texas	TRE	Texas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/15/2019 3:19 AM	10/15/2019 6:38 AM	3 Hours, 19 Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/17/2019 12:45 AM	10/19/2019 9:30 AM	56 Hours, 45 Minutes	ISO New England	NPCC	Connecticut: Rhode Island: Massachusetts: Vermont: New Hampshire: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		101683
2019	10	10/19/2019 5:57 AM	10/19/2019 1:58 PM	8 Hours, 1 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	South Dakota: Codington County; Nebraska: Scotts Bluff County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/20/2019 10:15 PM	10/25/2019 2:00 AM	99 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Cass County, Cameron County, Collin County, Dallas County, Ellis County, Erath County, Hunt County, Kaufman County, Lamar County, Panola County, Rains County, Rockwall County, Rusk County, Tarrant County, Van Zandt County, Wood County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		400000
2019	10	10/23/2019 2:36 PM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		50000
2019	10	10/24/2019 5:15 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2019	10	10/24/2019 5:02 PM	10/24/2019 5:09 PM	0 Hours, 7 Minutes	FirstEnergy Corp	RF	Ohio: Lorain County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/26/2019 5:15 AM	10/26/2019 5:31 PM	12 Hours, 16 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		82124
2019	10	10/26/2019 6:00 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		70000
2019	10	10/26/2019 6:20 PM	10/31/2019 1:27 AM	103 Hours, 7 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	3190	972000
2019	10	10/30/2019 6:32 AM	11/01/2019 1:29 PM	54 Hours, 57 Minutes	Southern California Edison Co	WECC	California: Los Angeles County, Orange County, Riverside County, San Bernardino County, Ventura County, Kern County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	285	114402
2019	10	10/31/2019 10:00 PM	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		53943
2019	11	11/01/2019 1:00 AM	11/03/2019 1:00 PM	60 Hours, 0 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		8000

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	11	11/01/2019 1:15 AM	11/02/2019 9:30 PM	44 Hours, 15 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: Rhode Island: New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		80066
2019	11	11/01/2019 2:41 AM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York: Broome County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		66325
2019	11	11/03/2019 10:17 PM	11/04/2019 11:10 AM	12 Hours, 53 Minutes	Northern States Power Co	MRO	Minnesota: Sherburne County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	11	11/05/2019 8:56 AM	11/05/2019 11:51 AM	2 Hours, 55 Minutes	JEA	FRCC	Florida: Duval County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	1500	
2019	11	11/08/2019 5:50 AM	11/08/2019 6:10 AM	0 Hours, 20 Minutes	Pacificorp	WECC	Utah: California: Oregon: Wyoming:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-System Operations	72	
2019	11	11/20/2019 9:49 AM	11/20/2019 3:20 PM	5 Hours, 31 Minutes	Pacific Gas & Electric Co	WECC	California: Colusa County, Lake County, Mendocino County, Napa County, Solano County, Sonoma County, Yolo County, Shasta County, Tehama County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	178	54000
2019	11	11/26/2019 6:07 PM	11/27/2019 12:27 PM	18 Hours, 20 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	300	93000
2019	11	11/27/2019 12:00 PM	11/30/2019 2:00 AM	62 Hours, 0 Minutes	Detroit Edison Co	RF	Michigan: Tuscola County, Sanilac County, Huron County, St. Clair County, Macomb County, Oakland County, Wayne County, Livingston County, Washtenaw County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	30	107000
2019	12	12/11/2019 1:27 PM	12/11/2019 1:51 PM	0 Hours, 24 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	North Dakota: Burleigh County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	18	1
2019	12	12/16/2019 11:55 PM	12/17/2019 1:47 AM	1 Hours, 52 Minutes	American Electric Power - Texas	TRE	Texas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	12	12/31/2019 11:03 AM	01/01/2020 10:59 AM	23 Hours, 56 Minutes	American Electric Power - Texas	TRE	Texas: Nueces County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Transmission Interruption	25	0

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

Appendix C

Technical notes

This appendix describes how the U. S. Energy Information Administration (EIA) collects, estimates, and reports electric power data in the EPM.

Data quality

The EPM is prepared by the Office of Energy Production, Conversion & Delivery (EPCD), Energy Information Administration (EIA), U.S. Department of Energy. Quality statistics begin with the collection of the correct data. To assure this, ERUS performs routine reviews of the data collected and the forms on which it is collected. Additionally, to assure that the data are collected from the correct parties, ERUS routinely reviews the frames for each data collection.

Automatic, computerized verification of keyed input, review by subject matter specialists, and follow-up with nonrespondents assure quality statistics. To ensure the quality standards established by the EIA, formulas that use the past history of data values in the database have been designed and implemented to check data input for errors automatically. Data values that fall outside the ranges prescribed in the formulas are verified by telephoning respondents to resolve any discrepancies. All survey nonrespondents are identified and contacted.

Reliability of data

There are two types of errors possible in an estimate based on a sample survey: sampling and non-sampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and non-sampling errors. Monthly sample survey data have both sampling and non-sampling error. Annual survey data are collected by a census and are not subject to sampling error.

Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. Note that for the cutoff sampling and model-based regression (ratio) estimation that we use, data ‘missing’ due to nonresponse, and data ‘missing’ due to being out-of-sample are treated in the same manner.Therefore missing data may be considered to result in sampling error, and variance estimates reflect all missing data.

Although no direct measurement of the biases due to non-sampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. See the Data Processing and Data System Editing section for each EIA form for an in-depth discussion of how the sampling and non-sampling errors are handled in each case.

Relative Standard Error: The relative standard error (RSE) statistic, usually given as a percentage, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square

root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

The sampling error may be less than the non-sampling error. In fact, large RSE estimates found in preliminary work with these data have often indicated non-sampling errors, which were then identified and corrected. Non-sampling errors may be attributed to many sources, including the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These non-sampling errors also occur in complete censuses.

Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approximately a 68 percent chance that the true total or mean is within one RSE of the estimated total or mean. Note that reported RSEs are always estimates themselves, and are usually, as here, reported as percentages. As an example, suppose that a net generation from coal value is estimated to be 1,507 million kilowatthours with an estimated RSE of 4.9 percent. This means that, ignoring any non-sampling error, there is approximately a 68 percent chance that the true million kilowatthour value is within approximately 4.9 percent of 1,507 million kilowatthours (that is, between 1,433 and 1,581 million kilowatthours). Also under the Central Limit Theorem, there is approximately a 95 percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information may represent only itself, and such numbers are added to model results when estimating totals. Further, there are times when sample data may be known to be in error, or are not reported. Such cases are treated as if they were never part of the model-based sample, and values are imputed. Experiments were done to see if nonresponse should be treated differently, but it was decided to treat those cases the same as out-of-sample cases.

Relative Standard Error With Respect to a Superpopulation: The RSESP statistic is similar to the RSE (described above). Like the RSE, it is a statistic designed to estimate the variability of data and is usually given as a percentage. However, where the RSE is only designed to estimate the magnitude of sampling error, the RSESP more fully reflects the impact of variability from sampling and non-sampling errors. This is a more complete measure than RSE in that it can measure statistical variability in a complete census in addition to a sample 21,24. In addition to being a measure of data variability, the RSESP can also be useful in comparing different models that are applied to the same set of data22. This capability is used to test different regression models for imputation and prediction. This testing may include considerations such as comparing different regressors, the comparative reliability of different monthly samples, or the use of different geographical strata or groupings for a given model. For testing purposes, ERUS typically uses recent historical data that have been finalized. Typically, time-series graphics showing two or more models or samples are generated showing the RSESP values over time. In selecting models, consideration is given to total survey error as well as any apparent differences in robustness.

Imputation: For monthly data, if the reported values appeared to be in error and the data issue could not be resolved with the respondent, or if the facility was a nonrespondent, a regression methodology is used to impute for the facility. The same procedure is used to estimate ("predict") data for facilities not in the monthly sample. The regression methodology relies on other data to make estimates for erroneous or missing responses.

Estimation for missing monthly data is accomplished by relating the observed data each month to one or more other data elements (regressors) for which we generally have an annual census. Each year, when new annual regressor data are available, recent monthly relationships are updated, causing slight revisions to estimated monthly results. These revisions are made as soon as the annual data are released.

The basic technique employed is described in the paper "Model-Based Sampling and Inference16," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). The basis for the current methodology involves a 'borrowing of strength' technique for small domains.

Data revision procedure

ERUS has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

- Annual survey data are disseminated either as preliminary or final when first appearing in a data product. Data initially released as preliminary will be so noted in the data product. These data are typically released as final by the next dissemination of the same product; however, if final data are available at an earlier interval they may be released in anotherproduct.
- All monthly survey data are first disseminated as preliminary. These data are revised after the prior year's data are finalized and are disseminated as revised preliminary. No revisions are made to the published data before this or subsequent to these data being finalized unless significant errors are discovered.
- After data are disseminated as final, further revisions will be considered if they make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.
- The magnitudes of changes due to revisions experienced in the past will be 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, andbunker 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:

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

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

NERC classification

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

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

The new NERC Regional Council names are as follows:

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

Business classification

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

Agriculture, Forestry, and Fishing

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

Mining

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

Construction

23

Manufacturing

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

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

Transportation and Public Utilities

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

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

512 Motion pictures
514 Business services
514199 Miscellaneous services

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

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

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

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

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

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

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

x_{i2013} is the ith utility's 2013 (or the last published year) solar PV capacity

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

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

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

e_i is the error term

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

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

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

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

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

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

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

Appendix 1- MSAs

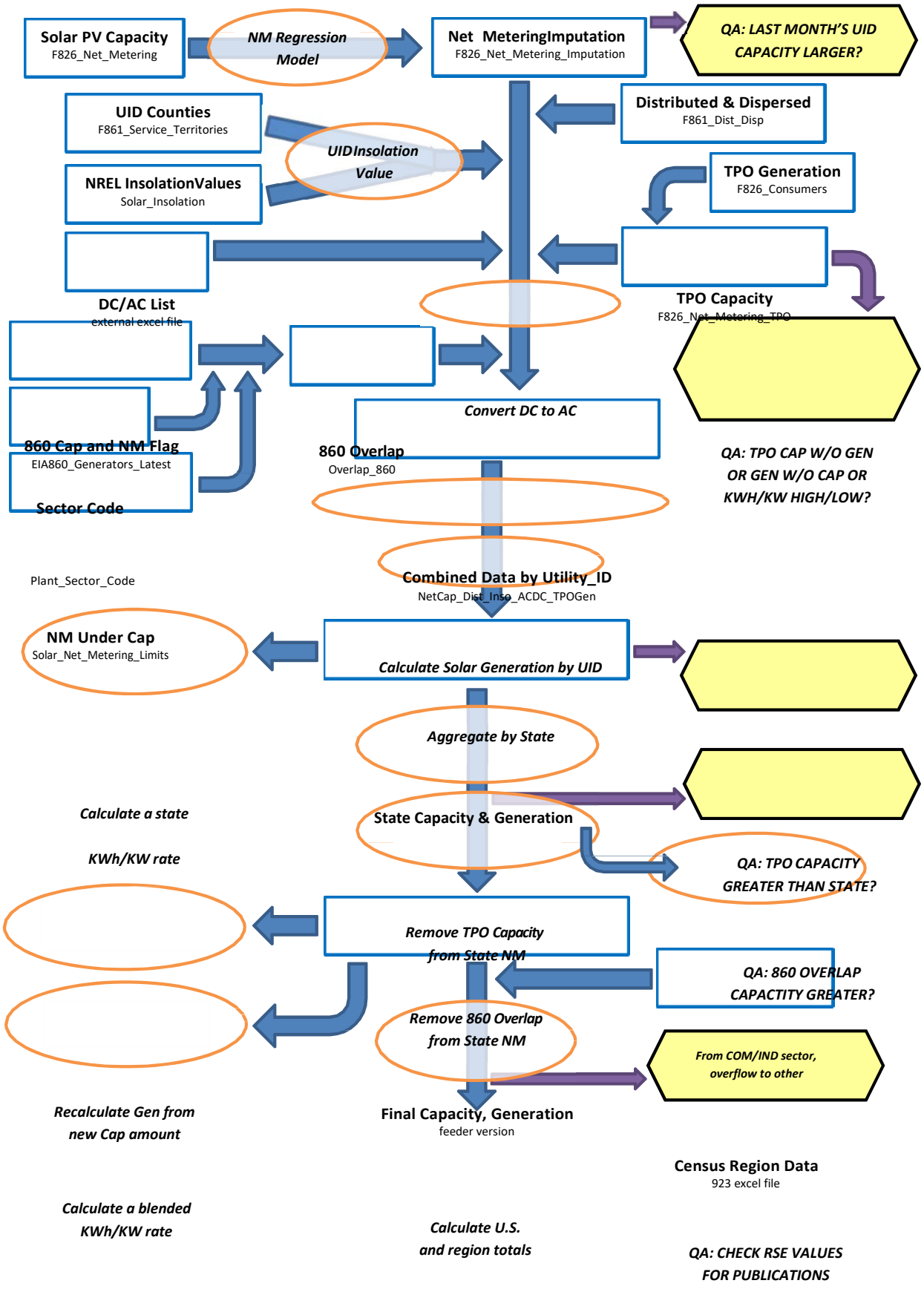
TMY3 (1991-2005) Weather Stations by MSA

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

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

79	USA CO Colorado Springs Muni Airport	Colorado Springs, CO MSA
80	USA NY Syracuse Hancock Int'l Airport	Syracuse, NY MSA
81	USA FL Fort Myers Page Field	Cape Coral-Fort Myers, FL MSA
82	USA NC Winston-Salem Reynolds Airport	Winston-Salem, NC MSA
83	USA ID Boise Air Terminal	Boise City, ID MSA
84	USA KS Wichita Mid-continent Airport	Wichita, KS MSA
85	USA WI Madison Dane Co Regional Airport	Madison, WI MSA
86	USA MA Worchester Regional Airport	Springfield, MA MSA
87	USA FL Lakeland Linder Regional Airport	Lakeland-Winter Haven, FL MSA
88	USA UT Ogden Hinkley Airport	Ogden-Clearfield, UT MSA
89	USA OH Toledo Express Airport	Toledo, OH MSA
90	USA FL Daytona Beach Intl Airport	Deltona-Daytona Beach-Ormond Beach, FL MSA
91	USA IA Des Moines Intl Airport	Des Moines-West Des Moines, IA MSA
92	USA GA Augusta Bush Field	Augusta-Richmond County, GA-SC MSA
93	USA MS Jackson Int'l Airport	Jackson, MS MSA
94	USA UT Provo Muni	Provo-Orem, UT MSA
95	USA PA Wilkes-Barre Scranton Intl Airport	Scranton–Wilkes-Barre–Hazleton, PA MSA
96	USA PA Harrisburg Capital City Airport	Harrisburg-Carlisle, 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, November 2020

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	21.60	6.19	--	1.03
Connecticut	--	5.80	--	1.03
Maine	21.60	6.25	--	1.04
Massachusetts	--	--	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	21.48	6.20	--	1.03
New Jersey	25.75	5.81	--	1.03
New York	--	6.26	--	1.03
Pennsylvania	21.27	5.98	--	1.03
East North Central	20.50	5.78	26.92	1.06
Illinois	17.81	5.80	--	1.00
Indiana	22.27	5.74	--	1.06
Michigan	18.67	5.83	27.08	1.06
Ohio	24.84	5.80	--	1.07
Wisconsin	18.05	--	26.24	1.03
West North Central	16.53	5.77	--	1.06
Iowa	17.80	5.78	--	1.10
Kansas	16.93	5.77	--	1.02
Minnesota	17.68	5.67	--	1.10
Missouri	17.64	5.79	--	1.03
Nebraska	17.16	5.75	--	1.06
North Dakota	13.12	5.78	--	0.99
South Dakota	16.55	--	--	--
South Atlantic	23.95	5.76	28.05	1.03
Delaware	--	5.83	--	1.04
District of Columbia	--	--	--	--
Florida	23.61	5.72	28.05	1.03
Georgia	20.04	5.82	--	1.03
Maryland	24.40	5.80	--	1.03
North Carolina	25.03	5.81	--	1.04
South Carolina	24.55	5.79	--	1.03
Virginia	26.03	5.67	--	1.05
West Virginia	25.11	5.75	--	1.06
East South Central	21.38	5.79	--	1.02
Alabama	18.67	--	--	1.03
Kentucky	22.60	5.81	--	1.02
Mississippi	18.77	5.86	--	1.02
Tennessee	23.74	5.76	--	1.01
West South Central	15.94	5.88	28.55	1.02
Arkansas	17.54	5.87	--	1.03
Louisiana	17.58	5.90	28.55	1.03
Oklahoma	17.21	6.00	--	1.03
Texas	15.54	5.87	--	1.02
Mountain	18.82	5.76	--	1.04
Arizona	18.07	5.79	--	1.02
Colorado	18.85	5.80	--	1.09
Idaho	--	--	--	1.00
Montana	17.16	5.92	--	1.03
Nevada	20.11	--	--	1.05
New Mexico	18.44	5.66	--	1.02
Utah	21.92	5.75	--	1.04
Wyoming	17.65	5.79	--	1.05
Pacific Contiguous	17.45	5.85	--	1.04
California	23.08	--	--	1.03
Oregon	--	--	--	1.05
Washington	16.97	5.85	--	1.09
Pacific Noncontiguous	14.09	6.16	--	1.00
Alaska	14.09	5.60	--	1.00
Hawaii	--	6.16	--	--
U.S. Total	19.15	6.06	28.22	1.03

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

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2017 through 2019

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

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

Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2017 through 2019

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

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-year values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.
Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2019 are Final.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.4. Unit of Measure Equivalents for Electricity

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

Source: U.S. Energy Information Administration

Glossary

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Geothermal: Pertaining to heat within the Earth.

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

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

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

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

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

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

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

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

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

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

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

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

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

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

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

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

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

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

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

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Petroleum coke: See Coke (petroleum).

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

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

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

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

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

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

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

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

Receipts: Purchases of fuel.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Terrawatt: One trillion watts.

Terrawatthour: One trillion kilowatthours.

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

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

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

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

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

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

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

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

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

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

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